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Case Narrative

**CASE NARRATIVE
for
MACTEC ENGINEERING AND CONSULTING
CE WINDSOR SITE
SDG: CE236**

May 10, 2007

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on April 18, 2007, April 19, 2007 and April 20, 2007 for analysis. Shipping container temperatures were checked, documented, and within specifications. The chain of custody listed the container type for pH analysis as 250 ml nalgene containers. The lab received only 125 ml containers. The lab notified the client that this was sufficient sample for analysis. Please refer to the enclosed e-mail for further detail. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Samples were received within the specified holding time. There are no additional comments concerning sample receipt.

Items of Note The client was notified that the Silver analysis would be performed by method 6010 rather than 6020. The lab was able to meet the contract required detection limits with this method. The client was notified that the pH analysis for MW0907 was performed out of holding due to an instrument malfunction. Please refer to the enclosed e-mails for further detail.

Sample Identification The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
184428001	MW1203
184428002	MW0904
184428003	MW0904DUP
184428004	MW0905
184428005	MW0906S
184428006	MW0906D
184428007	MW0907
184428008	MWS01
184428009	MWS02

Case Narrative

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

Data Package

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

This data package, to the best of my knowledge, is in compliance with technical and administrative requirements.

A handwritten signature in black ink that reads "Edith M. Kent". The signature is written in a cursive style with a large initial "E" and "K".

Edith Kent

Project Manager

Chain of Custody and Supporting Documentation

1844287

CE236

Chain Of Custody/Analysis Request Form

CE Windsor Groundwater Program *USACE Samples*

MACTEC E&C

Jayne Connolly

207-828-3455

Lab: GEL

Sample #	Sample Date	Sample Time	Field Sample ID	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media	Method	Fraction
153	4/17/2007	9:36	MW1203	4	1	1 Liter Nalgene	4C, HNO3 pH<2	GW	Isotopic Thorium (HASL 300)	T
					1	250 mL Nalgene	4C, HNO3 pH<2	GW	B / Ag / Th / Zr - (ICP/MS)	T
					1	250 mL Amber Glass	4C, H2SO4 pH<2	GW	TOC - (9060)	T
					1	250 mL Nalgene	4C	GW	pH - (9040C)	T *
175	4/17/2007	11:38	MW0904	4	1	250 mL Nalgene	4C, HNO3 pH<2	GW	B / Ag / Th / Zr - (ICP/MS)	T
					1	1 Liter Nalgene	4C, HNO3 pH<2	GW	Isotopic Thorium (HASL 300)	T
					1	250 mL Nalgene	4C	GW	pH - (9040C)	T *
					1	250 mL Amber Glass	4C, H2SO4 pH<2	GW	TOC - (9060)	T
176	4/17/2007	11:38	MW0904DUP	4	1	250 mL Amber Glass	4C, H2SO4 pH<2	GW	TOC - (9060)	T
					1	250 mL Nalgene	4C, HNO3 pH<2	GW	B / Ag / Th / Zr - (ICP/MS)	T
					1	250 mL Nalgene	4C	GW	pH - (9040C)	T *
					1	1 Liter Nalgene	4C, HNO3 pH<2	GW	Isotopic Thorium (HASL 300)	T

Tuesday, April 17, 2007

Page 1 of 2

* Analyze upon arrival @ GEL

CE 236

Sample #	Sample Date	Sample Time	Field Sample ID	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media	Method	Fraction
177	4/17/2007	11:38	MW0904MS	3						
					1	1 Liter Nalgene	4C, HNO3 ph<2	GW	Isotopic Thorium (HASL 300)	T
					1	250 mL Amber Glass	4C, H2SO4 ph<2	GW	TOC - (9060)	T
					1	250 mL Nalgene	4C, HNO3 ph<2	GW	B / Ag / Th / Zr - (ICP/MS)	T
178	4/17/2007	11:38	MW0904MSD	3						
					1	1 Liter Nalgene	4C, HNO3 ph<2	GW	Isotopic Thorium (HASL 300)	T
					1	250 mL Nalgene	4C, HNO3 ph<2	GW	B / Ag / Th / Zr - (ICP/MS)	T
					1	250 mL Amber Glass	4C, H2SO4 ph<2	GW	TOC - (9060)	T

SDG Number: CE236 Start Date: 4/17/07 End Date: / /

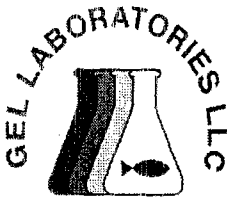
Relinquished: [Signature] Date: 4/17/07 Time: 1900 Received: [Signature] Date: 4/18/07 Time: 9:30
Relinquished: Date: / / Time: Received: Date: / / Time:

USACE Samples

CE 236 still open

3 coolers w/ 3 bags ice

Please Analyze pH samples upon arrival @ FEL



SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: <u>Mactec</u>	SDG/ARCOC/Work Order: <u>CE 236</u>
Date Received: <u>4/18/07</u>	PM(A) Review (ensure non-conforming items are resolved prior to signing):
Received By: <u>DP</u>	<u>EM</u>

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.	X			Circle Coolant # <u>ice bags</u> blue ice dry ice none other describe <u>40</u>
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?			X	Circle Applicable: seals broken damaged container leaking container other (describe) <u>(1) MW0608 1L Amber received broken + empty</u>
5	Samples requiring chemical preservation at proper pH?			X	Sample ID's, containers affected and observed pH: <u>MW1507 Not preserved pH=7</u>
6	VOA vials free of headspace (defined as < 6mm bubble)?	X			Sample ID's and containers affected:
7	Are Encore containers present? (If yes, immediately deliver to VOA laboratory)			X	
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Sample ID's affected:
11	Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>Did not receive (1) 250mL vial from MW0608 pH samples are not 250mL, received as 125mL</u>
12	COC form is properly signed in relinquished/received sections?	X			
14	Air Bill, Tracking #'s, & Additional Comments	<u>FedEx 89422309400</u>			

Suspected Hazard Information	Non-Regulated	Regulated	High Level	RSO RAD Receipt # _____ *If > x2 area background is observed on samples identified as "non-regulated/non-radioactive", contact the Radiation Safety group for further investigation.
A Radiological Classification?	X			Maximum Counts Observed*: <u>20 cpm</u>
B PCB Regulated?	X			
C Shipped as DOT Hazardous Material? If yes, contact Waste Manager or ESH Manager.	X			Hazard Class Shipped: UN#:
D Regulated as a Foreign Soil?	X			
PM (or PMA) review of Hazard classification: <u>EM</u>				Initials <u>4/18/07</u> Date:

184428

CE 236 USA CE Samples

Chain Of Custody/Analysis Request Form

CE Windsor Groundwater Program

MACTEC E&C
Jayme Connolly
207-828-3455

Lab: GEL

Sample #	Sample Date	Sample Time	Field Sample ID	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media	Method	Fraction
004	179	4/18/2007	8:58 MW0905	4						
					1	125 mL Nalgene	4C	GW	pH - (9040C)	T
					1	250 mL Amber Glass	4C, H2SO4 ph<2	GW	TOC - (9060)	T . 2
					1	1 Liter Nalgene	4C, HNO3 ph<2	GW	Isotopic Thorium (HASL 300)	T
005	180	4/18/2007	10:35 MW0906S	4	1	250 mL Nalgene	4C, HNO3 ph<2	GW	B / Ag / Th / Zr - (ICP/MS)	T
					1	250 mL Amber Glass	4C, H2SO4 ph<2	GW	TOC - (9060)	T . 2
					1	125 mL Nalgene	4C	GW	pH - (9040C)	T
					1	1 Liter Nalgene	4C, HNO3 ph<2	GW	Isotopic Thorium (HASL 300)	T
006	181	4/18/2007	12:08 MW0906D	4	1	250 mL Nalgene	4C, HNO3 ph<2	GW	B / Ag / Th / Zr - (ICP/MS)	T
					1	1 Liter Nalgene	4C, HNO3 ph<2	GW	Isotopic Thorium (HASL 300)	T . 2
					1	125 mL Nalgene	4C	GW	pH - (9040C)	T
					1	250 mL Amber Glass	4C, H2SO4 ph<2	GW	TOC - (9060)	T

Sample #	Sample Date	Sample Time	Field Sample ID	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media	Method	Fraction
007 182	4/18/2007	16:01	MW0907	4						
					1	250 mL Amber Glass	4C, H2SO4 pH<2	GW	TOC - (9060)	T
					1	250 mL Nalgene	4C, HNO3 pH<2	GW	B / Ag / Th / Zr - (ICP/MS)	T
					1	125 mL Nalgene	4C	GW	pH - (9040C)	T
					1	1 Liter Nalgene	4C, HNO3 pH<2	GW	Isotopic Thorium (HASL 300)	T

SDG Number: CE236 Start Date: 4/18/07 End Date: / /

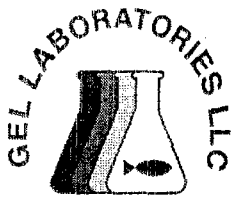
Relinquished: [Signature] Date: 4/18/07 Time: 1900 Received: [Signature] Date: 4/19/07 Time: 9:30

Relinquished: Date: / / Time: Received: Date: / / Time:

CE236 is still open

USACE Samples

3 coolers w/ 3 bags of ice per cooler



SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: <u>HLAI</u>	SDG/ARCOC/Work Order: <u>CE236</u>
Date Received: <u>4/19/07</u>	PM(A) Review (ensure non-conforming items are resolved prior to signing): <u>CR</u>
Received By: <u>[Signature]</u>	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.	X			Circle Coolant # <u>ice bags</u> blue ice dry ice none other describe) <u>4°</u>
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	X			Sample ID's, containers affected and observed pH:
6	VOA vials free of headspace (defined as < 6mm bubble)?	X			Sample ID's and containers affected:
7	Are Encore containers present? (If yes, immediately deliver to VOA laboratory)			X	
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Sample ID's affected:
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			
14	Air Bill , Tracking #'s, & Additional Comments				<u>FedEx 854223095384</u>

	Suspected Hazard Information	Non-Regulated	Regulated	High Level	RSO RAD Receipt # _____ *If > x2 area background is observed on samples identified as "non-regulated/non-radioactive", contact the Radiation Safety group for further investigation.
A	Radiological Classification?	X			Maximum Counts Observed*: <u>70 cpm</u>
B	PCB Regulated?	X			
C	Shipped as DOT Hazardous Material? If yes, contact Waste Manager or ESH Manager.	X			Hazard Class Shipped: UN#:
D	Regulated as a Foreign Soil?	X			

PM (or PMA) review of Hazard classification: CR Initials 4/19/07 Date:

1844283

20070417601

Chain Of Custody/Analysis Request Form

CE Windsor Groundwater Program

MACTEC E&C
Jayme Connolly
207-828-3455

Lab: GEL

Sample #	Sample Date	Sample Time	Field Sample ID	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media	Method	Fraction
008 183	4/19/2007	10:44	MWS01	4	1	250 mL Amber Glass	4C, H2SO4 ph<2	GW	TOC - (9060)	T
					1	125 mL Nalgene	4C	GW	pH - (9040C)	T
					1	1 Liter Nalgene	4C, HNO3 ph<2	GW	Isotopic Thorium (HASL 300)	T
					1	250 mL Nalgene	4C, HNO3 ph<2	GW	B / Ag / Th / Zr - (ICP/MS)	T
009 184	4/19/2007	12:05	MWS02	4	1	250 mL Amber Glass	4C, H2SO4 ph<2	GW	TOC - (9060)	T
					1	125 mL Nalgene	4C	GW	pH - (9040C)	T
					1	1 Liter Nalgene	4C, HNO3 ph<2	GW	Isotopic Thorium (HASL 300)	T
					1	250 mL Nalgene	4C, HNO3 ph<2	GW	B / Ag / Th / Zr - (ICP/MS)	T

11

3

3

SDG Number: CE236 Start Date: 4/16/07 End Date: 4/19/07

Relinquished: [Signature] Date: 4/19/07 Time: 1840 Received: [Signature] Date: 4/20/07 Time: 9:30

Relinquished: _____ Date: ___/___/___ Time: _____ Received: _____ Date: ___/___/___ Time: _____

Thursday, April 19, 2007

CE 236 is now closed
1 cooler w/ 3 bags of ice



SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: <u>HLAI</u>	SDG/ARCOC/Work Order: <u>CE 236</u>
Date Received: <u>4/20/07</u>	PM(A) Review (ensure non-conforming items are resolved prior to signing): <u>[Signature]</u>
Received By: <u>[Signature]</u>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.	X			Circle Coolant # <u>ice bags</u> blue ice dry ice none other describe <u>4°</u>
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?	X			Sample ID's, containers affected and observed pH:
6 VOA vials free of headspace (defined as < 6mm bubble)?	X			Sample ID's and containers affected:
7 Are Encore containers present? (If yes, immediately deliver to VOA laboratory)			X	
8 Samples received within holding time?	X			Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?	X			Sample ID's affected:
11 Number of containers received match number indicated on COC?	X			Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?	X			
14 Air Bill ,Tracking #'s, & Additional Comments	<u>FedEx 8612 69332142</u>			

Suspected Hazard Information	Non-Regulated	Regulated	High Level	RSO RAD Receipt # _____ *If > x2 area background is observed on samples identified as "non-regulated/non-radioactive", contact the Radiation Safety group for further investigation.
A Radiological Classification?	X			Maximum Counts Observed*: <u>20 cpm</u>
B PCB Regulated?	X			
C Shipped as DOT Hazardous Material? If yes, contact Waste Manager or ESH Manager.	X			Hazard Class Shipped: UN#:
D Regulated as a Foreign Soil?	X			
PM (or PMA) review of Hazard classification: <u>[Signature]</u> Initials <u>4/20/07</u> Date:				

Subject: CE235 and CE236 - Condition on Receipt, 4/18/07 - Please advise
From: Edith Kent <emk@gel.com>
Date: Wed, 18 Apr 2007 11:33:28 -0400
To: "Cunningham, Tige" <TLCunningham@mactec.com>
CC: Heather Shaffer <heather.shaffer@gel.com>, "Connolly, Jayme" <JPCConnolly@mactec.com>

Tige:
 We had a few issues with the samples.

For CE235, one of the 1L amber glass containers for MW0608 was received broken. We do have enough sample for analysis but will not have enough if reanalysis is needed. We did not receive the 250 ml nalgene container for the Uranium analysis for MW0608. The pH of the Uranium container for MW1507 was 7 instead of <2. Do you want us to add HNO3 to the sample and proceed with analysis?

For CE236, the chain lists the container type for pH analysis as a 250 ml nalgene container. We actually received 125 ml nalgene containers. This is sufficient sample for analysis. I just want to bring to your attention.

Edie

Cunningham, Tige wrote:

CE Windsor Groundwater Program
 Please see attached COC's
 Please email me when the samples are checked in.
 Tige

CE235

1 of Custody/Analysis Request Form

Water Program

Lab: GEL

Qty Total	Qty Each	Bottle Size and Material	Preservative	Media	Method	Fraction
6	1	250 mL Nalgene	4C, HNO3 ph<2	GW	Uranium - (ICP/MS)	T
	2	1 Liter Amber Glass	4C	GW	PAH - (8310)	T
	3	40 mL Glass Vial	4C, HCL ph<2	GW	VOA - (8260B)	T
6	1	250 mL Nalgene	4C, HNO3 ph<2	GW	Uranium - (ICP/MS)	T
	3	40 mL Glass Vial	4C, HCL ph<2	GW	VOA - (8260B)	T
	2	1 Liter Amber Glass	4C	GW	ETPH - (CT SOP)	T
4	2	1 Liter Amber Glass	4C	GW	PCBs - (8082)	T
	2	1 Liter Amber Glass	4C	GW	ETPH - (CT SOP)	T
3	1	250 mL Nalgene	4C, HNO3 ph<2	GW	Uranium - (ICP/MS)	T
	2	1 Liter Amber Glass	4C	GW	PAH - (8310)	T

Chain

CE Windsor Groundw

MACTEC E&C

Jayne Connolly

207-828-3455

Sample # Date Time Field Sample ID

149 4/17/2007 10:55 MW0608

150 4/17/2007 8:40 MW0610R

151 4/16/2007 15:15 MW0801

153 4/17/2007 9:36 MW1203

Tuesday, April 17, 2007

Sample #	Sample Date	Sample Time	Field Sample ID	Qty Total	Qty Each	Bottle Size and Material
154	4/17/2007	9:36	MW1203DUP	1		
					1	250 mL Nalgene
155	4/17/2007	9:36	MW1203MS	1		
					1	250 mL Nalgene
156	4/17/2007	9:36	MW1203MSD	1		
					1	250 mL Nalgene
157	4/17/2007	9:30	MW1507	4		
					1	250 mL Nalgene
					3	40 mL Glass Via
158	4/17/2007	10:27	MW1509	3		
					2	1 Liter Amber Gl
					1	250 mL Nalgene
159	4/16/2007	16:45	MW0502	4		
					2	1 Liter Amber G
					2	1 Liter Amber G
168	4/17/2007	12:40	MWE05DI	3		
					3	40 mL Glass Via
169	4/17/2007	12:40	MWE05DIDUP	3		
					3	40 mL Glass Via
170	4/17/2007	15:20	MWE07D	3		
					3	40 mL Glass Via

Tuesday, April 17, 2007

L 200

d

	Preservative	Media	Method	Fraction
	4C, HNO3 ph<2	GW	Uranium - (ICP/MS)	T
	4C, HNO3 ph<2	GW	Uranium - (ICP/MS)	T
	4C, HNO3 ph<2	GW	Uranium - (ICP/MS)	T
	4C, HNO3 ph<2	GW	Uranium - (ICP/MS)	T
il	4C, HCL ph<2	GW	VOA - (8260B)	T
lass	4C	GW	PAH - (8310)	T
	4C, HNO3 ph<2	GW	Uranium - (ICP/MS)	T
lass	4C	GW	ETPH - (CT SOP)	T
lass	4C	GW	PAH - (8310)	T
il	4C, HCL ph<2	GW	VOA - (8260B)	T
il	4C, HCL ph<2	GW	VOA - (8260B)	T
il	4C, HCL ph<2	GW	VOA - (8260B)	T

Sample #	Sample Date	Sample Time	Field Sample ID	Qty Total
171	4/17/2007	13:09	MW1805R	3
174	4/17/2007	16:31	MW1809	3
188	4/17/2007	12:00	TB01	3

SDG Number: CE235 Start Date: 4/16/

Relinquished: [Signature] Date: 4/1

Relinquished: _____ Date: ___/___/___

CE 235

Tuesday, April 17, 2007

CE235

Qty Each	Bottle Size and Material	Preservative	Media	Method	Fraction
3	40 mL Glass Vial	4C, HCL ph<2	GW	VOA - (8260B)	T
3	40 mL Glass Vial	4C, HCL ph<2	GW	VOA - (8260B)	T
3	40 mL Glass Vial	4C, HCL ph<2	GW	VOA - (8260B)	T

07 End Date: ___/___/___

7/07 Time: 1900 Received: _____ Date: ___/___/___ Time: _____

___/___ Time: _____ Received: _____ Date: ___/___/___ Time: _____

T is still open

3 coolers w/ 3 bags of ice

CE Windsor

MACTEC E&C

Jayne Connolly
207-828-3455

Sample #	Sample Date	Sample Time
----------	-------------	-------------

153 4/17/2007 9:

175 4/17/2007 11:

176 4/17/2007 11:

Tuesday, April 17, 2007

- 2 2 0 4

Chain Of Custody/Analysis Request Form

Groundwater Program *USACE Samples*

Lab: GEL

Well ID	Field Sample ID	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media	Method	Fraction	
36	MW1203	4	1	1	Liter Nalgene	4C, HNO3	ph<2 GW	Isotopic Thorium (HASL 300)	T
			1	250 mL	Nalgene	4C, HNO3	ph<2 GW	B / Ag / Th / Zr - (ICP/MS)	T
			1	250 mL	Amber Glass	4C, H2SO4	ph<2 GW	TOC - (9060)	T
			1	250 mL	Nalgene	4C	GW	pH - (9040C)	T *
38	MW0904	4	1	250 mL	Nalgene	4C, HNO3	ph<2 GW	B / Ag / Th / Zr - (ICP/MS)	T
			1	1	Liter Nalgene	4C, HNO3	ph<2 GW	Isotopic Thorium (HASL 300)	T
			1	250 mL	Nalgene	4C	GW	pH - (9040C)	T *
			1	250 mL	Amber Glass	4C, H2SO4	ph<2 GW	TOC - (9060)	T
38	MW0904DUP	4	1	250 mL	Amber Glass	4C, H2SO4	ph<2 GW	TOC - (9060)	T
			1	250 mL	Nalgene	4C, HNO3	ph<2 GW	B / Ag / Th / Zr - (ICP/MS)	T
			1	250 mL	Nalgene	4C	GW	pH - (9040C)	T *
			1	1	Liter Nalgene	4C, HNO3	ph<2 GW	Isotopic Thorium (HASL 300)	T

* Analyze upon arrival @ GEL

CE236

Sample #	Sample Date	Sample Time	Field Sample ID	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media	M
177	4/17/2007	11:38	MW0904MS	3	1	1 Liter Nalgene	4C, HNO3 ph<2	GW	Is
					1	250 mL Amber Glass	4C, H2SO4 ph<2	GW	TC
					1	250 mL Nalgene	4C, HNO3 ph<2	GW	B
178	4/17/2007	11:38	MW0904MSD	3	1	1 Liter Nalgene	4C, HNO3 ph<2	GW	Is
					1	250 mL Nalgene	4C, HNO3 ph<2	GW	B
					1	250 mL Amber Glass	4C, H2SO4 ph<2	GW	TC

SDG Number: CE236 Start Date: 4/17/07 End Date: 1/1

Relinquished: [Signature] Date: 4/17/07 Time: 1900 Received: _____ Date: _____

Relinquished: _____ Date: 1/1 Time: _____ Received: _____ Date: _____

USACE Samples

CE 236 still open

3 coolers

Please Analyze pH samples

Tuesday, April 17, 2007

Edith M. Kent
 Project Manager
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC (USA) 29407
 Direct: 843.769.7385 x4453
 Main: 843.556.8171
 Fax: 843.766.1178
 E-mail: emk@gel.com
 Web: www.gel.com

Subject: Re: USACE Samples

From: Edith Kent <emk@gel.com>

Date: Fri, 27 Apr 2007 10:34:44 -0400

To: "Connolly, Jayme" <JPCConnolly@mactec.com>

CC: Denni Grunstra <bdg@gel.com>, Heather Shaffer <heather.shaffer@gel.com>, Cheryl Jones <cj@gel.com>

Jayme:

The MDL is 1 ug/L and the PQL is 5 ug/L so there will not be a problem.

Edie

Connolly, Jayme wrote:

Edie - what is the water RL for Ag by 6010? Will you be able to meet 12 ug/L?

Jayme Connolly
Senior Environmental Scientist
MACTEC Consulting and Engineering, Inc.
Office 207-775-5401 Fax 207-772-4762
Email jpcconnolly@mactec.com Web www.mactec.com

-----Original Message-----

From: Edith Kent [<mailto:emk@gel.com>]
Sent: Monday, April 23, 2007 12:01 PM
To: Connolly, Jayme
Cc: Denni Grunstra; Heather Shaffer; Cheryl Jones
Subject: Re: USACE Samples

Jayme:

Method 6020 was listed in the quotation. The issue is that we failed two successive PE samples for Silver by method 6020. The failure is due

to an optional part of the digestion process. We have since made the change in our digestion procedure. We currently do not have certification for Silver by method 6020 in the state of Florida. Connecticut has a reciprocal agreement with Florida for the NELAC certification. Technically, we do still have certification for Connecticut. I looked at the Connecticut certification and it doesn't look like they list the methods. We have to pass two PE samples before the Florida certification can be reinstated. Since we have made the change to our procedure, we are working on getting this taken care of as expeditiously as possible.

Please don't hesitate to call me to discuss or I can have Denni give you a call if you would like to discuss with Quality.

Edie

Connolly, Jayme wrote:

Edie - was that in the quotation?

-----Original Message-----

From: Edith Kent [<mailto:emk@gel.com>]

Sent: Friday, April 20, 2007 3:57 PM
To: Connolly, Jayme
Cc: Denni Grunstra; Heather Shaffer
Subject: USACE Samples

Jayme:
For the USACE metals samples (B, Ag, Th, Zr), we are having to analyze
the Silver by method 6010 instead of 6020. The other metals analysis

is

by method 6020.

Edie

--

~~~~~

Edith M. Kent  
Project Manager  
GEL Laboratories, LLC  
2040 Savage Road  
Charleston, SC (USA) 29407  
Direct: 843.769.7385 x4453  
Main: 843.556.8171  
Fax: 843.766.1178  
E-mail: [emk@gel.com](mailto:emk@gel.com)  
Web: [www.gel.com](http://www.gel.com)

**Subject:** RE: Holding Time Issue with pH for CE236  
**From:** "Cunningham, Tige" <TLCunningham@mactec.com>  
**Date:** Fri, 27 Apr 2007 08:03:31 -0400  
**To:** "Edith Kent" <emk@gel.com>, "Connolly, Jayme" <JPCConnolly@mactec.com>

Edie,  
Thank-you for the notification.  
Tige

-----Original Message-----

From: Edith Kent [<mailto:emk@gel.com>]  
Sent: Thursday, April 26, 2007 8:37 AM  
To: Connolly, Jayme  
Cc: Cunningham, Tige  
Subject: Holding Time Issue with pH for CE236

Jayme:  
Sample MW0907 was analyzed out of holding time for pH analysis due to an  
instrument malfunction.

Edie

--

~~~~~

Edith M. Kent
Project Manager
GEL Laboratories, LLC
2040 Savage Road
Charleston, SC (USA) 29407
Direct: 843.769.7385 x4453
Main: 843.556.8171
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by telephone or email if you have received this communication in error
and destroy
the contents that do not pertain to your business with The GEL Group,
INC.

Data Package Qualifier Definitions

Data Review Qualifier Definitions

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

Laboratory Certifications

List of current GEL Certifications as of 10 May 2007

State	Certification
Alaska	UST-062
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California	01151CA
Colorado	GenEngLabs
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA	WG-15J
Florida/NELAP	E87156
Georgia	E87156 (FL/NELAP)
Hawaii	N/A
Idaho	N/A
Illinois	200029
Indiana	C-SC-01
Kansas	E-10332
Kentucky	90129
Louisiana	03046
Maryland	270
Massachusetts	M-SC012
Michigan	9903
Nevada	SC12
New Jersey	SC002
New Mexico	FL NELAP E87156
New York	11501
North Carolina	233
North Carolina Drinking W	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania	68-00485
South Carolina	10120001/10585001/10120002
Tennessee	02934
Texas NELAP	T104704235-06-TX
U.S. Dept. of Agriculture	S-52597
US Army Corps of Engineer	N/A
Utah	8037697376 GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

Metals Analysis

Case Narrative

**Metals Fractional Narrative
 MACTEC Engineering and Consulting (HLAI)
 SDG CE236**

Sample Analysis

Sample ID	Client ID
184428001	MW1203
184428002	MW0904
184428003	MW0904DUP
184428004	MW0905
184428005	MW0906S
184428006	MW0906D
184428007	MW0907
184428008	MWS01
184428009	MWS02
1201318158	Method Blank (MB) ICP
1201319438	Method Blank (MB) ICP
1201319902	Method Blank (MB) ICP
1201318159	Laboratory Control Sample (LCS)
1201319439	Laboratory Control Sample (LCS)
1201319903	Laboratory Control Sample (LCS)
1201318162	184428002(MW0904L) Serial Dilution (SD)
1201319442	184428004(MW0905L) Serial Dilution (SD)
1201318160	184428002(MW0904D) Sample Duplicate (DUP)
1201319440	184428004(MW0905D) Sample Duplicate (DUP)
1201318161	184428002(MW0904S) Matrix Spike (MS)
1201319441	184428004(MW0905S) Matrix Spike (MS)
1201318102	Method Blank (MB) ICP-MS
1201319368	Method Blank (MB) ICP-MS
1201320019	Method Blank (MB) ICP-MS
1201318103	Laboratory Control Sample (LCS)
1201319369	Laboratory Control Sample (LCS)
1201320020	Laboratory Control Sample (LCS)
1201318108	184428002(MW0904L) Serial Dilution (SD)
1201318107	184428002(MW0904D) Sample Duplicate (DUP)
1201318109	184428002(MW0904S) Matrix Spike (MS)

Method/Analysis Information

Analytical Batch:	626724, 627239, 627449, 626700, 627203 and 627498
Prep Batch :	626723, 627238, 627448, 626699, 627202 and 627497
Standard Operating Procedures:	GL-MA-E-013 REV# 16, GL-MA-E-006 REV# 9 and GL-MA-E-014 REV# 13
Analytical Method:	SW846 6010B and SW846 6020
Prep Method :	SW846 3005A

Preparation/Analytical Method Verification

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

System Configuration

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

The Metals analysis - ICPMS was performed on a Perkin Elmer ELAN 6100E inductively coupled plasma mass spectrometer (ICP-MS). The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 3607 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial lens voltage of 5.2.

The Metals analysis-ICP was performed on a Thermo Jarrell Ash 61E Trace axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium internal standard. Operating conditions for the Trace ICP are set at a power level of 950 watts. The instrument has a peristaltic pump flow rate of 140 RPM (2.0 mL/min sample uptake rate), argon gas flows of 15 L/min and 0.5 L/min for the torch and auxiliary gases, and a pressure setting of 26 PSI for the nebulizer.

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits, with the exception of zirconium, which recovered slightly greater than the upper advisory limits.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 184428002 (MW0904) for ICP and ICP-MS, 184428004 (MW0905) and 184608002 (NFP 510/GS10) for ICP.

Matrix Spike (MS) Recovery Statement

The percent recoveries (%R) obtained from the MS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. All applicable elements met the acceptance criteria.

Duplicate Relative Percent Difference (RPD) Statement

The RPD obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is >5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control of RL is used to evaluate the DUP results. All applicable analytes met these requirements.

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element

concentrations that are 25X the IDL for CVAA, 50X the IDL for ICP, and 100X the IDL for ICP-MS analyses are applicable for serial dilution assessment. All applicable analytes met the acceptance criteria of less than 10% difference (%D).

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instruments. Samples 184428001 (MW1203), 184428002 (MW0904), 184428003 (MW0904DUP), and associated quality control samples for ICP required dilutions in order to minimize silver suppression due to matrix interferences.

Preparation Information

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

Miscellaneous Information

Nonconformance Documentation

Nonconformance reports (NCRs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A NCR was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: LaWanda Miller **Date:** 5.11.07

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: CE236

METHOD TYPE: SW846

SAMPLE ID: 184428001

CLIENT ID: MW1203

CONTRACT: HLAI00107

MATRIX: G

DATE RECEIVED 18-APR-07

LEVEL: Low **%SOLIDS:**

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>IDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-42-8	Boron	50.9	ug/L			MS	2	1	ICPMS3	070423-5
7440-22-4	Silver	5	ug/L	U		P	5	5	OPTIMA1	042307-16
7440-29-1	Thorium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070423-5
7440-67-7	Zirconium	0.930	ug/L	B		MS	0.1	1	ICPMS3	070423-5

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: CE236

METHOD TYPE: SW846

SAMPLE ID: 184428002

CLIENT ID: MW0904

CONTRACT: HLAI00107

MATRIX: G

DATE RECEIVED 18-APR-07

LEVEL: Low **%SOLIDS:**

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>IDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-42-8	Boron	34.1	ug/L			MS	2	1	ICPMS3	070423-5
7440-22-4	Silver	5	ug/L	U		P	5	5	OPTIMA1	042307-16
7440-29-1	Thorium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070423-5
7440-67-7	Zirconium	0.280	ug/L	B		MS	0.1	1	ICPMS3	070423-5

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: CE236

METHOD TYPE: SW846

SAMPLE ID: 184428003

CLIENT ID: MW0904DUP

CONTRACT: HLAI00107

MATRIX: G

DATE RECEIVED 18-APR-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>IDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-42-8	Boron	33.9	ug/L			MS	2	1	ICPMS3	070423-5
7440-22-4	Silver	5	ug/L	U		P	5	5	OPTIMA1	042307-16
7440-29-1	Thorium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070423-5
7440-67-7	Zirconium	1	ug/L	B		MS	0.1	1	ICPMS3	070423-5

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: CE236

METHOD TYPE: SW846

SAMPLE ID: 184428004

CLIENT ID: MW0905

CONTRACT: HLAI00107

MATRIX: G

DATE RECEIVED 19-APR-07

LEVEL: Low **%SOLIDS:**

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>IDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-42-8	Boron	74.8	ug/L			MS	2	1	ICPMS3	070430-10
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	042507-1
7440-29-1	Thorium	0.340	ug/L	B		MS	0.3	1	ICPMS3	070430-10
7440-67-7	Zirconium	0.70	ug/L	B		MS	0.1	1	ICPMS3	070430-10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: CE236

METHOD TYPE: SW846

SAMPLE ID: 184428005

CLIENT ID: MW0906S

CONTRACT: HLAI00107

MATRIX: G

DATE RECEIVED 19-APR-07

LEVEL: Low **%SOLIDS:**

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>IDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-42-8	Boron	33.8	ug/L			MS	2	1	ICPMS3	070430-10
7440-22-4	Silver	1.7	ug/L	B		P	1	1	TRACE2	042507-1
7440-29-1	Thorium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070430-10
7440-67-7	Zirconium	0.10	ug/L	U		MS	0.1	1	ICPMS3	070430-10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: CE236

METHOD TYPE: SW846

SAMPLE ID: 184428006

CLIENT ID: MW0906D

CONTRACT: HLAI00107

MATRIX: G

DATE RECEIVED 19-APR-07

LEVEL: Low **%SOLIDS:**

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>IDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-42-8	Boron	44.3	ug/L			MS	2	1	ICPMS3	070430-10
7440-22-4	Silver	1	ug/L	U		P	1	1	TRACE2	042507-1
7440-29-1	Thorium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070430-10
7440-67-7	Zirconium	0.10	ug/L	U		MS	0.1	1	ICPMS3	070430-10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: CE236

METHOD TYPE: SW846

SAMPLE ID: 184428007

CLIENT ID: MW0907

CONTRACT: HLAI00107

MATRIX: G

DATE RECEIVED 19-APR-07

LEVEL: Low **%SOLIDS:**

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>IDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-42-8	Boron	27.1	ug/L			MS	2	1	ICPMS3	070430-10
7440-22-4	Silver	1.4	ug/L	B		P	1	1	TRACE2	042507-1
7440-29-1	Thorium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070430-10
7440-67-7	Zirconium	0.10	ug/L	U		MS	0.1	1	ICPMS3	070430-10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: CE236

METHOD TYPE: SW846

SAMPLE ID: 184428008

CLIENT ID: MWS01

CONTRACT: HLAI00107

MATRIX: G

DATE RECEIVED 20-APR-07

LEVEL: Low %SOLIDS:

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>IDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-42-8	Boron	24	ug/L			MS	2	1	ICPMS3	070427-8
7440-22-4	Silver	1.2	ug/L	B		P	1	1	TRACE2	042507-1
7440-29-1	Thorium	0.430	ug/L	B		MS	0.3	1	ICPMS3	070427-9
7440-67-7	Zirconium	1.1	ug/L	B		MS	0.1	1	ICPMS3	070427-9

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: CE236

METHOD TYPE: SW846

SAMPLE ID: 184428009

CLIENT ID: MWS02

CONTRACT: HLAI00107

MATRIX: G

DATE RECEIVED 20-APR-07

LEVEL: Low **%SOLIDS:**

<u>CAS No</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>C</u>	<u>Qual</u>	<u>M</u>	<u>IDL</u>	<u>DF</u>	<u>Instrument ID</u>	<u>Analytical Run</u>
7440-42-8	Boron	9.5	ug/L	B		MS	2	1	ICPMS3	070427-8
7440-22-4	Silver	1.2	ug/L	B		P	1	1	TRACE2	042507-1
7440-29-1	Thorium	0.30	ug/L	U		MS	0.3	1	ICPMS3	070427-9
7440-67-7	Zirconium	0.520	ug/L	B		MS	0.1	1	ICPMS3	070427-9

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: CE236

Contract: HLA100107

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,OPTIMA1,TRACE2

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01	Boron	104	ug/L	100	ug/L	104.5	90.0 – 110.0	MS	23-APR-07 14:33	070423-5
	Thorium	52.1	ug/L	50	ug/L	104.3	90.0 – 110.0	MS	23-APR-07 14:33	070423-5
	Zirconium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	23-APR-07 14:33	070423-5
	Silver	255	ug/L	250	ug/L	102.1	90.0 – 110.0	P	23-APR-07 17:51	042307-16
	Silver	244	ug/L	250	ug/L	97.6	90.0 – 110.0	P	25-APR-07 09:35	042507-1
	Boron	112	ug/L	100	ug/L	111.8	90.0 – 110.0	MS	27-APR-07 17:01	070427-9
	Thorium	51	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	27-APR-07 17:01	070427-9
	Zirconium	50.2	ug/L	50	ug/L	100.5	90.0 – 110.0	MS	27-APR-07 17:01	070427-9
	Boron	108	ug/L	100	ug/L	107.6	90.0 – 110.0	MS	28-APR-07 03:34	070427-8
	Boron	109	ug/L	100	ug/L	109	90.0 – 110.0	MS	30-APR-07 12:27	070430-10
	Thorium	52	ug/L	50	ug/L	104	90.0 – 110.0	MS	30-APR-07 12:27	070430-10
	Zirconium	50.1	ug/L	50	ug/L	100.2	90.0 – 110.0	MS	30-APR-07 12:27	070430-10
CCV01	Boron	103	ug/L	100	ug/L	103.3	90.0 – 110.0	MS	23-APR-07 14:56	070423-5
	Thorium	51.2	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	23-APR-07 14:56	070423-5
	Zirconium	50.1	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	23-APR-07 14:56	070423-5
	Silver	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	23-APR-07 18:46	042307-16
	Silver	500	ug/L	500	ug/L	100	90.0 – 110.0	P	25-APR-07 10:19	042507-1
	Boron	103	ug/L	100	ug/L	103.1	90.0 – 110.0	MS	27-APR-07 17:25	070427-9
	Thorium	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	27-APR-07 17:25	070427-9
	Zirconium	50.7	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	27-APR-07 17:25	070427-9
	Boron	105	ug/L	100	ug/L	105.3	90.0 – 110.0	MS	28-APR-07 03:45	070427-8
	Boron	101	ug/L	100	ug/L	100.9	90.0 – 110.0	MS	30-APR-07 12:50	070430-10
	Thorium	51.7	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	30-APR-07 12:50	070430-10
	Zirconium	50.2	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	30-APR-07 12:50	070430-10
CCV02	Boron	102	ug/L	100	ug/L	102	90.0 – 110.0	MS	23-APR-07 15:11	070423-5
	Thorium	53.4	ug/L	50	ug/L	106.7	90.0 – 110.0	MS	23-APR-07 15:11	070423-5
	Zirconium	51.5	ug/L	50	ug/L	103	90.0 – 110.0	MS	23-APR-07 15:11	070423-5
	Silver	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	23-APR-07 19:07	042307-16

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: CE236

Contract: HLA100107

Lab Code: GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS3,OPTIMA1,TRACE2

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Silver	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	25-APR-07 10:47	042507-1
	Boron	98	ug/L	100	ug/L	98	90.0 – 110.0	MS	27-APR-07 17:39	070427-9
	Thorium	53	ug/L	50	ug/L	105.9	90.0 – 110.0	MS	27-APR-07 17:39	070427-9
	Zirconium	52.3	ug/L	50	ug/L	104.7	90.0 – 110.0	MS	27-APR-07 17:39	070427-9
	Boron	102	ug/L	100	ug/L	101.7	90.0 – 110.0	MS	28-APR-07 04:07	070427-8
	Boron	108	ug/L	100	ug/L	108.4	90.0 – 110.0	MS	30-APR-07 13:05	070430-10
	Thorium	53.6	ug/L	50	ug/L	107.1	90.0 – 110.0	MS	30-APR-07 13:05	070430-10
	Zirconium	51	ug/L	50	ug/L	102.1	90.0 – 110.0	MS	30-APR-07 13:05	070430-10
CCV03	Boron	105	ug/L	100	ug/L	105	90.0 – 110.0	MS	23-APR-07 15:58	070423-5
	Thorium	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	23-APR-07 15:58	070423-5
	Zirconium	49.4	ug/L	50	ug/L	98.7	90.0 – 110.0	MS	23-APR-07 15:58	070423-5
	Silver	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	23-APR-07 20:11	042307-16
	Silver	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	25-APR-07 11:34	042507-1
	Boron	96.4	ug/L	100	ug/L	96.4	90.0 – 110.0	MS	27-APR-07 18:27	070427-9
	Thorium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	27-APR-07 18:27	070427-9
	Zirconium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	27-APR-07 18:27	070427-9
	Boron	110	ug/L	100	ug/L	110.4	90.0 – 110.0	MS	30-APR-07 14:02	070430-10
	Thorium	52.1	ug/L	50	ug/L	104.3	90.0 – 110.0	MS	30-APR-07 14:02	070430-10
	Zirconium	47.6	ug/L	50	ug/L	95.3	90.0 – 110.0	MS	30-APR-07 14:02	070430-10
CCV04	Boron	99.8	ug/L	100	ug/L	99.8	90.0 – 110.0	MS	23-APR-07 16:44	070423-5
	Thorium	50	ug/L	50	ug/L	100	90.0 – 110.0	MS	23-APR-07 16:44	070423-5
	Zirconium	49.2	ug/L	50	ug/L	98.4	90.0 – 110.0	MS	23-APR-07 16:44	070423-5
	Silver	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	23-APR-07 21:03	042307-16
	Silver	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	25-APR-07 12:22	042507-1
	Boron	86.2	ug/L	100	ug/L	86.2	90.0 – 110.0	MS	27-APR-07 19:24	070427-9
	Thorium	50.5	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	27-APR-07 19:24	070427-9
	Zirconium	49.9	ug/L	50	ug/L	99.7	90.0 – 110.0	MS	27-APR-07 19:24	070427-9
	Boron	107	ug/L	100	ug/L	106.6	90.0 – 110.0	MS	30-APR-07 14:49	070430-10

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: CE236

Contract: HLA100107

Lab Code: GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS3,OPTIMA1,TRACE2

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Thorium	51.8	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	30-APR-07 14:49	070430-10
	Zirconium	47.4	ug/L	50	ug/L	94.7	90.0 – 110.0	MS	30-APR-07 14:49	070430-10
CCV05	Boron	104	ug/L	100	ug/L	103.7	90.0 – 110.0	MS	23-APR-07 17:32	070423-5
	Thorium	51.6	ug/L	50	ug/L	103.1	90.0 – 110.0	MS	23-APR-07 17:32	070423-5
	Zirconium	49.9	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	23-APR-07 17:32	070423-5
	Silver	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	23-APR-07 21:37	042307-16
	Silver	505	ug/L	500	ug/L	101	90.0 – 110.0	P	25-APR-07 13:35	042507-1
	Boron	106	ug/L	100	ug/L	106.1	90.0 – 110.0	MS	30-APR-07 15:30	070430-10
	Thorium	51.9	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	30-APR-07 15:30	070430-10
	Zirconium	47.7	ug/L	50	ug/L	95.4	90.0 – 110.0	MS	30-APR-07 15:30	070430-10
CCV06	Boron	100	ug/L	100	ug/L	100.3	90.0 – 110.0	MS	23-APR-07 18:15	070423-5
	Thorium	50.9	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	23-APR-07 18:15	070423-5
	Zirconium	51.4	ug/L	50	ug/L	102.7	90.0 – 110.0	MS	23-APR-07 18:15	070423-5
	Silver	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	23-APR-07 22:49	042307-16
	Silver	505	ug/L	500	ug/L	101	90.0 – 110.0	P	25-APR-07 14:18	042507-1
	Boron	109	ug/L	100	ug/L	108.8	90.0 – 110.0	MS	30-APR-07 16:23	070430-10
	Thorium	51.9	ug/L	50	ug/L	103.8	90.0 – 110.0	MS	30-APR-07 16:23	070430-10
	Zirconium	48.7	ug/L	50	ug/L	97.3	90.0 – 110.0	MS	30-APR-07 16:23	070430-10
CCV07	Boron	99	ug/L	100	ug/L	99	90.0 – 110.0	MS	23-APR-07 19:03	070423-5
	Thorium	50.3	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	23-APR-07 19:03	070423-5
	Zirconium	51.1	ug/L	50	ug/L	102.2	90.0 – 110.0	MS	23-APR-07 19:03	070423-5
	Silver	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	23-APR-07 23:51	042307-16
	Silver	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	25-APR-07 15:05	042507-1
	Boron	102	ug/L	100	ug/L	102.3	90.0 – 110.0	MS	30-APR-07 17:01	070430-10
	Thorium	51.7	ug/L	50	ug/L	103.4	90.0 – 110.0	MS	30-APR-07 17:01	070430-10
	Zirconium	49.1	ug/L	50	ug/L	98.2	90.0 – 110.0	MS	30-APR-07 17:01	070430-10

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: CE236

Contract: HLA100107

Lab Code: GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS3,OPTIMA1,TRACE2

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV08	Silver	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	25-APR-07 16:16	042507-1
	Boron	101	ug/L	100	ug/L	100.5	90.0 – 110.0	MS	30-APR-07 17:46	070430-10
	Thorium	51.4	ug/L	50	ug/L	102.7	90.0 – 110.0	MS	30-APR-07 17:46	070430-10
	Zirconium	49.6	ug/L	50	ug/L	99.2	90.0 – 110.0	MS	30-APR-07 17:46	070430-10
CCV09	Silver	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	25-APR-07 17:09	042507-1
CCV10	Silver	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	25-APR-07 18:08	042507-1
CCV11	Silver	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	25-APR-07 18:55	042507-1
CCV12	Silver	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	25-APR-07 19:37	042507-1
CCV13	Silver	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	25-APR-07 20:42	042507-1
CCV14	Silver	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	25-APR-07 21:47	042507-1
CCV15	Silver	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	25-APR-07 22:52	042507-1
CCV16	Silver	486	ug/L	500	ug/L	97.3	90.0 – 110.0	P	25-APR-07 23:51	042507-1
CCV17	Silver	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	26-APR-07 00:57	042507-1
CCV18	Silver	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	26-APR-07 02:08	042507-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: CE236

Contract: HLA100107

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS3,OPTIMA1,TRACE2

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Thorium	.969	ug/L	1	ug/L	96.9	70.0 – 130.0	MS	23-APR-07 14:42	070423-5
	Boron	16.1	ug/L	15	ug/L	107.2	70.0 – 130.0	MS	23-APR-07 14:42	070423-5
	Zirconium	2.77	ug/L	2	ug/L	138.25	70.0 – 130.0	MS	23-APR-07 14:42	070423-5
	Thorium	1.03	ug/L	1	ug/L	102.9	70.0 – 130.0	MS	27-APR-07 17:10	070427-9
	Zirconium	2.76	ug/L	2	ug/L	138.2	70.0 – 130.0	MS	27-APR-07 17:10	070427-9
	Boron	15.9	ug/L	15	ug/L	105.85	70.0 – 130.0	MS	27-APR-07 17:10	070427-9
	Boron	16.9	ug/L	15	ug/L	112.93	70.0 – 130.0	MS	28-APR-07 03:38	070427-8
	Thorium	1.01	ug/L	1	ug/L	100.8	70.0 – 130.0	MS	30-APR-07 12:36	070430-10
	Boron	16.3	ug/L	15	ug/L	108.63	70.0 – 130.0	MS	30-APR-07 12:36	070430-10
	Zirconium	2.46	ug/L	2	ug/L	122.75	70.0 – 130.0	MS	30-APR-07 12:36	070430-10
PQL01										
	Silver	5.13	ug/L	5	ug/L	102.57	70.0 – 130.0	P	23-APR-07 18:06	042307-16
	Silver	5.36	ug/L	5	ug/L	107.25	70.0 – 130.0	P	25-APR-07 09:48	042507-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: CE236

Contract: HLA100107

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Acceptance</u> <u>ug/L</u>	<u>Conc</u> <u>Qual</u>	<u>IDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01										
	Boron	3.52	+/-15	B	2.0	15.0	LIQ	MS	23-APR-07 14:37	070423-5
	Thorium	0.387	+/-1	B	0.3	1.0	LIQ	MS	23-APR-07 14:37	070423-5
	Zirconium	0.329	+/-2	B	0.1	2.0	LIQ	MS	23-APR-07 14:37	070423-5
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	23-APR-07 17:58	042307-16
	Silver	2.11	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 09:42	042507-1
	Boron	3.93	+/-15	B	2.0	15.0	LIQ	MS	27-APR-07 17:06	070427-9
	Thorium	0.579	+/-1	B	0.3	1.0	LIQ	MS	27-APR-07 17:06	070427-9
	Zirconium	0.69	+/-2	B	0.1	2.0	LIQ	MS	27-APR-07 17:06	070427-9
	Boron	5.13	+/-15	B	2.0	15.0	LIQ	MS	28-APR-07 03:36	070427-8
	Boron	3.96	+/-15	B	2.0	15.0	LIQ	MS	30-APR-07 12:32	070430-10
	Thorium	0.306	+/-1	B	0.3	1.0	LIQ	MS	30-APR-07 12:32	070430-10
	Zirconium	0.417	+/-2	B	0.1	2.0	LIQ	MS	30-APR-07 12:32	070430-10
CCB01										
	Boron	2.3	+/-15	B	2.0	15.0	LIQ	MS	23-APR-07 15:01	070423-5
	Thorium	0.3	+/-1	U	0.3	1.0	LIQ	MS	23-APR-07 15:01	070423-5
	Zirconium	0.1	+/-2	U	0.1	2.0	LIQ	MS	23-APR-07 15:01	070423-5
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	23-APR-07 18:53	042307-16
	Silver	1.36	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 10:25	042507-1
	Boron	3.01	+/-15	B	2.0	15.0	LIQ	MS	27-APR-07 17:29	070427-9
	Thorium	0.332	+/-1	B	0.3	1.0	LIQ	MS	27-APR-07 17:29	070427-9
	Zirconium	0.579	+/-2	B	0.1	2.0	LIQ	MS	27-APR-07 17:29	070427-9
	Boron	3.49	+/-15	B	2.0	15.0	LIQ	MS	28-APR-07 03:47	070427-8
	Boron	2.91	+/-15	B	2.0	15.0	LIQ	MS	30-APR-07 12:55	070430-10
	Thorium	0.3	+/-1	U	0.3	1.0	LIQ	MS	30-APR-07 12:55	070430-10
	Zirconium	0.38	+/-2	B	0.1	2.0	LIQ	MS	30-APR-07 12:55	070430-10
CCB02										
	Boron	2.15	+/-15	B	2.0	15.0	LIQ	MS	23-APR-07 15:15	070423-5
	Thorium	0.555	+/-1	B	0.3	1.0	LIQ	MS	23-APR-07 15:15	070423-5
	Zirconium	0.1	+/-2	U	0.1	2.0	LIQ	MS	23-APR-07 15:15	070423-5
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	23-APR-07 19:14	042307-16
	Silver	1.5	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 10:53	042507-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: CE236

Contract: HLA100107

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Acceptance</u> <u>ug/L</u>	<u>Conc</u> <u>Qual</u>	<u>IDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Boron	2.66	+/-15	B	2.0	15.0	LIQ	MS	27-APR-07 17:44	070427-9
	Thorium	0.935	+/-1	B	0.3	1.0	LIQ	MS	27-APR-07 17:44	070427-9
	Zirconium	0.801	+/-2	B	0.1	2.0	LIQ	MS	27-APR-07 17:44	070427-9
	Boron	3.27	+/-15	B	2.0	15.0	LIQ	MS	28-APR-07 04:10	070427-8
	Boron	2.53	+/-15	B	2.0	15.0	LIQ	MS	30-APR-07 13:09	070430-10
	Thorium	0.642	+/-1	B	0.3	1.0	LIQ	MS	30-APR-07 13:09	070430-10
	Zirconium	0.498	+/-2	B	0.1	2.0	LIQ	MS	30-APR-07 13:09	070430-10
CCB03	Boron	4.81	+/-15	B	2.0	15.0	LIQ	MS	23-APR-07 16:03	070423-5
	Thorium	0.304	+/-1	B	0.3	1.0	LIQ	MS	23-APR-07 16:03	070423-5
	Zirconium	0.1	+/-2	U	0.1	2.0	LIQ	MS	23-APR-07 16:03	070423-5
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	23-APR-07 20:18	042307-16
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-APR-07 11:40	042507-1
	Boron	3.48	+/-15	B	2.0	15.0	LIQ	MS	27-APR-07 18:31	070427-9
	Thorium	0.546	+/-1	B	0.3	1.0	LIQ	MS	27-APR-07 18:31	070427-9
	Zirconium	0.599	+/-2	B	0.1	2.0	LIQ	MS	27-APR-07 18:31	070427-9
	Boron	3.92	+/-15	B	2.0	15.0	LIQ	MS	30-APR-07 14:07	070430-10
	Thorium	0.379	+/-1	B	0.3	1.0	LIQ	MS	30-APR-07 14:07	070430-10
	Zirconium	0.44	+/-2	B	0.1	2.0	LIQ	MS	30-APR-07 14:07	070430-10
CCB04	Boron	2.32	+/-15	B	2.0	15.0	LIQ	MS	23-APR-07 16:48	070423-5
	Thorium	0.3	+/-1	U	0.3	1.0	LIQ	MS	23-APR-07 16:48	070423-5
	Zirconium	0.1	+/-2	U	0.1	2.0	LIQ	MS	23-APR-07 16:48	070423-5
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	23-APR-07 21:10	042307-16
	Silver	1.68	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 12:28	042507-1
	Boron	2.43	+/-15	B	2.0	15.0	LIQ	MS	27-APR-07 19:29	070427-9
	Thorium	0.41	+/-1	B	0.3	1.0	LIQ	MS	27-APR-07 19:29	070427-9
	Zirconium	0.572	+/-2	B	0.1	2.0	LIQ	MS	27-APR-07 19:29	070427-9
	Boron	2.0	+/-15	U	2.0	15.0	LIQ	MS	30-APR-07 14:54	070430-10
	Thorium	0.346	+/-1	B	0.3	1.0	LIQ	MS	30-APR-07 14:54	070430-10
	Zirconium	0.384	+/-2	B	0.1	2.0	LIQ	MS	30-APR-07 14:54	070430-10

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: CE236

Contract: HLA100107

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Acceptance</u> <u>ug/L</u>	<u>Conc</u> <u>Qual</u>	<u>IDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB05										
	Boron	2.0	+/-15	U	2.0	15.0	LIQ	MS	23-APR-07 17:37	070423-5
	Thorium	0.371	+/-1	B	0.3	1.0	LIQ	MS	23-APR-07 17:37	070423-5
	Zirconium	0.326	+/-2	B	0.1	2.0	LIQ	MS	23-APR-07 17:37	070423-5
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	23-APR-07 21:45	042307-16
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-APR-07 13:41	042507-1
	Boron	2.0	+/-15	U	2.0	15.0	LIQ	MS	30-APR-07 15:34	070430-10
	Thorium	0.334	+/-1	B	0.3	1.0	LIQ	MS	30-APR-07 15:34	070430-10
	Zirconium	0.357	+/-2	B	0.1	2.0	LIQ	MS	30-APR-07 15:34	070430-10
CCB06										
	Boron	2.17	+/-15	B	2.0	15.0	LIQ	MS	23-APR-07 18:20	070423-5
	Thorium	0.383	+/-1	B	0.3	1.0	LIQ	MS	23-APR-07 18:20	070423-5
	Zirconium	0.351	+/-2	B	0.1	2.0	LIQ	MS	23-APR-07 18:20	070423-5
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	23-APR-07 22:56	042307-16
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-APR-07 14:23	042507-1
	Boron	2.79	+/-15	B	2.0	15.0	LIQ	MS	30-APR-07 16:27	070430-10
	Thorium	0.345	+/-1	B	0.3	1.0	LIQ	MS	30-APR-07 16:27	070430-10
	Zirconium	0.347	+/-2	B	0.1	2.0	LIQ	MS	30-APR-07 16:27	070430-10
CCB07										
	Boron	2.08	+/-15	B	2.0	15.0	LIQ	MS	23-APR-07 19:07	070423-5
	Thorium	0.382	+/-1	B	0.3	1.0	LIQ	MS	23-APR-07 19:07	070423-5
	Zirconium	0.35	+/-2	B	0.1	2.0	LIQ	MS	23-APR-07 19:07	070423-5
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	23-APR-07 23:58	042307-16
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-APR-07 15:11	042507-1
	Boron	2.02	+/-15	B	2.0	15.0	LIQ	MS	30-APR-07 17:06	070430-10
	Thorium	0.316	+/-1	B	0.3	1.0	LIQ	MS	30-APR-07 17:06	070430-10
	Zirconium	0.334	+/-2	B	0.1	2.0	LIQ	MS	30-APR-07 17:06	070430-10
CCB08										
	Silver	1.65	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 16:22	042507-1
	Boron	2.0	+/-15	U	2.0	15.0	LIQ	MS	30-APR-07 17:51	070430-10
	Thorium	0.3	+/-1	U	0.3	1.0	LIQ	MS	30-APR-07 17:51	070430-10
	Zirconium	0.36	+/-2	B	0.1	2.0	LIQ	MS	30-APR-07 17:51	070430-10

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: CE236

Contract: HLA100107

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Acceptance ug/L</u>	<u>Conc Qual</u>	<u>IDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
CCB09	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-APR-07 17:15	042507-1
CCB10	Silver	1.12	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 18:14	042507-1
CCB11	Silver	1.4	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 19:01	042507-1
CCB12	Silver	1.68	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 19:43	042507-1
CCB13	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-APR-07 20:48	042507-1
CCB14	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	25-APR-07 21:53	042507-1
CCB15	Silver	1.67	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 22:58	042507-1
CCB16	Silver	1.19	+/-5	B	1.0	5.0	LIQ	P	25-APR-07 23:57	042507-1
CCB17	Silver	1.63	+/-5	B	1.0	5.0	LIQ	P	26-APR-07 01:03	042507-1
CCB18	Silver	1.32	+/-5	B	1.0	5.0	LIQ	P	26-APR-07 02:14	042507-1

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. CE236
Contract: HLAI00107
Matrix: GROUND WATER

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M</u>	<u>IDL</u>	<u>RDL</u>
1201318102	Boron	2	ug/L	+/-15.0	U	MS	2	15
	Thorium	0.3	ug/L	+/-1.0	U	MS	0.3	1
	Zirconium	0.712	ug/L	+/-2.0	B	MS	0.1	2
1201318158	Silver	1	ug/L	+/-5.0	U	P	1	5
1201319368	Boron	2	ug/L	+/-15.0	U	MS	2	15
	Thorium	0.3	ug/L	+/-1.0	U	MS	0.3	1
	Zirconium	0.144	ug/L	+/-2.0	B	MS	0.1	2
1201319438	Silver	1	ug/L	+/-5.0	U	P	1	5
1201319902	Silver	1	ug/L	+/-5.0	U	P	1	5
1201320019	Boron	2	ug/L	+/-15.0	U	MS	2	15
	Thorium	0.3	ug/L	+/-1.0	U	MS	0.3	1
	Zirconium	0.573	ug/L	+/-2.0	B	MS	0.1	2

METALS
 -4-
Interference Check Sample

SDG No: CE236

Contract: HLAI00107

Lab Code: GEL

ICS: O2Si

Instrument: TRACE2

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Silver	1.52	ug/L					25-APR-07 09:54	042507-1
ICSAB01	Silver	254	ug/L	250	ug/L	101	80.0 - 120.0	25-APR-07 10:00	042507-1

METALS
 -4-
Interference Check Sample

SDG No: CE236

Contract: HLAI00107

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Boron	6.56	ug/L					30-APR-07 12:41	070430-10
	Thorium	0.072	ug/L					30-APR-07 12:41	070430-10
	Zirconium	0.61	ug/L					30-APR-07 12:41	070430-10
ICSAB01									
	Boron	26.0	ug/L	25	ug/L	104	80.0 - 120.0	30-APR-07 12:46	070430-10
	Thorium	20.5	ug/L	20	ug/L	103	80.0 - 120.0	30-APR-07 12:46	070430-10
	Zirconium	20.6	ug/L	20	ug/L	103	80.0 - 120.0	30-APR-07 12:46	070430-10

METALS

-4-

Interference Check Sample

SDG No: CE236

Contract: HLAI00107

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Silver	-0.696	ug/L					23-APR-07 18:22	042307-16
ICSAB01	Silver	260	ug/L	250	ug/L	104	80.0 - 120.0	23-APR-07 18:27	042307-16

METALS
 -4-
Interference Check Sample

SDG No: CE236

Contract: HLAI00107

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Boron	7.04	ug/L					23-APR-07 14:47	070423-5
	Thorium	0.106	ug/L					23-APR-07 14:47	070423-5
	Zirconium	0.88	ug/L					23-APR-07 14:47	070423-5
ICSAB01									
	Boron	26.9	ug/L	25	ug/L	108	80.0 - 120.0	23-APR-07 14:52	070423-5
	Thorium	21.1	ug/L	20	ug/L	106	80.0 - 120.0	23-APR-07 14:52	070423-5
	Zirconium	20.7	ug/L	20	ug/L	103	80.0 - 120.0	23-APR-07 14:52	070423-5

METALS

-4-

Interference Check Sample

SDG No: CE236

Contract: HLAI00107

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Boron	7.57	ug/L					28-APR-07 03:40	070427-8
ICSAB01	Boron	28.6	ug/L	25	ug/L	114	80.0 - 120.0	28-APR-07 03:43	070427-8

METALS

-4-

Interference Check Sample

SDG No: CE236

Contract: HLAI00107

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Thorium	0.155	ug/L					27-APR-07 17:15	070427-9
	Zirconium	0.819	ug/L					27-APR-07 17:15	070427-9
ICSAB01									
	Thorium	20.1	ug/L	20	ug/L	100	80.0 - 120.0	27-APR-07 17:20	070427-9
	Zirconium	20.2	ug/L	20	ug/L	101	80.0 - 120.0	27-APR-07 17:20	070427-9

METALS

-5a-

Matrix Spike Summary

SDG NO. CE236 Client ID MW0904S

Contract: HLAI00107 Level: Low

Matrix: GROUND WATER % Solids:

Sample ID: 184428002 Spike ID: 1201318109

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Boron	ug/L	75-125	139		34.1		100	105		MS
Thorium	ug/L	75-125	51.9		0.3	U	50	104		MS
Zirconium	ug/L	75-125	51.9		0.278	B	50	103		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. CE236 Client ID MW0904S

Contract: HLAI00107 Level: Low

Matrix: GROUND WATER % Solids:

Sample ID: 184428002 Spike ID: 1201318161

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Silver	ug/L	75-125	504		5	U	500	101		P

METALS

-5a-

Matrix Spike Summary

SDG NO. CE236 Client ID MW0905S

Contract: HLAI00107 Level: Low

Matrix: GROUND WATER % Solids:

Sample ID: 184428004 Spike ID: 1201319441

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Silver	ug/L	75-125	496		1	U	500	99		P

Metals
-6-
Duplicate Sample Summary

SDG No.: CE236

Contract: HLAI00107

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: MW0904D

Sample ID: 184428002

Duplicate ID: 1201318107

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Boron	ug/L	+/-15	34.1		34.8		2.3		MS
Thorium	ug/L		0.3	U	0.3	U			MS
Zirconium	ug/L	+/-2	0.278	B	0.119	B	80.1		MS

Metals
-6-
Duplicate Sample Summary

SDG No.: CE236

Contract: HLAI00107

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: MW0904D

Sample ID: 184428002

Duplicate ID: 1201318160

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Silver	ug/L		5 U		5 U				P

Metals
-6-
Duplicate Sample Summary

SDG No.: CE236

Contract: HLAI00107

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: MW0905D

Sample ID: 184428004

Duplicate ID: 1201319440

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Silver	ug/L		0.409	U	1.11	B	200		P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. CE236

Contract: HLAI00107

Aqueous LCS Source: o2si

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1201318103	Boron	ug/L	100	111		111	80-120	MS
	Thorium	ug/L	50	51.5		103	80-120	MS
	Zirconium	ug/L	50	51.1		102	80-120	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. CE236

Contract: HLAI00107

Aqueous LCS Source:OS2I

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1201318159	Silver	ug/L	500	496		99.1	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. CE236

Contract: HLAI00107

Aqueous LCS Source: o2si

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1201319369	Boron	ug/L	100	112		112	80-120	MS
	Thorium	ug/L	50	52.3		105	80-120	MS
	Zirconium	ug/L	50	48.8		97.5	80-120	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. CE236

Contract: HLAI00107

Aqueous LCS Source:OS2I

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1201319439	Silver	ug/L	500	491		98.2	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. CE236

Contract: HLAI00107

Aqueous LCS Source:OS2I

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1201319903	Silver	ug/L	500	484		96.8	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. CE236

Contract: HLAI00107

Aqueous LCS Source: o2si

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1201320020	Boron	ug/L	100	113		113	80-120	MS
	Thorium	ug/L	50	49.9		99.7	80-120	MS
	Zirconium	ug/L	50	49.4		98.9	80-120	MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. CE236 Client ID MW0904L

Contract: HLAI00107

Matrix: LIQUID Level: Low

Sample ID: 184428002 Serial Dilution ID: 1201318108

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Boron	34.1		46.1	B	35.2			MS
Thorium	.3	U	1.5	U				MS
Zirconium	.278	B	1.09	B	292			MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. CE236 Client ID MW0904L

Contract: HLAI00107

Matrix: LIQUID Level: Low

Sample ID: 184428002 Serial Dilution ID: 1201318162

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Silver	1	U	5	U				P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. CE236 Client ID MW0905L

Contract: HLAI00107

Matrix: LIQUID Level: Low

Sample ID: 184428004 Serial Dilution ID: 1201319442

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Silver	1	U	6.25	B				P

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: CE236

Method Type P

Contract: HLAI00107

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 626723							
1201318158	MB for batch 626723	MB	GROUND WATER	23-APR-07	50mL	50mL	
1201318159	LCS for batch 626723	LCS	GROUND WATER	23-APR-07	50mL	50mL	
1201318161	MW0904S	MS	GROUND WATER	23-APR-07	50mL	50mL	
1201318160	MW0904D	DUP	GROUND WATER	23-APR-07	50mL	50mL	
184428001	MW1203	SAMPLE	GROUND WATER	23-APR-07	50mL	50mL	
184428002	MW0904	SAMPLE	GROUND WATER	23-APR-07	50mL	50mL	
184428003	MW0904DUP	SAMPLE	GROUND WATER	23-APR-07	50mL	50mL	
Batch Number 627238							
1201319438	MB for batch 627238	MB	GROUND WATER	24-APR-07	50mL	50mL	
1201319439	LCS for batch 627238	LCS	GROUND WATER	24-APR-07	50mL	50mL	
1201319441	MW0905S	MS	GROUND WATER	24-APR-07	50mL	50mL	
1201319440	MW0905D	DUP	GROUND WATER	24-APR-07	50mL	50mL	
184428004	MW0905	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	
184428005	MW0906S	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	
184428006	MW0906D	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	
184428007	MW0907	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	
Batch Number 627448							
1201319902	MB for batch 627448	MB	WATER	24-APR-07	50mL	50mL	
1201319903	LCS for batch 627448	LCS	WATER	24-APR-07	50mL	50mL	

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: CE236

Method Type P

Contract:

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
1201319905	NFP 510/GS10S	MS	WATER	24-APR-07	50mL	50mL	
1201319904	NFP 510/GS10D	DUP	WATER	24-APR-07	50mL	50mL	
184428008	MWS01	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	
184428009	MWS02	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: CE236

Method Type MS

Contract: HLAI00107

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 626699							
1201318102	MB for batch 626699	MB	GROUND WATER	21-APR-07	50mL	50mL	
1201318103	LCS for batch 626699	LCS	GROUND WATER	21-APR-07	50mL	50mL	
1201318109	MW0904S	MS	GROUND WATER	21-APR-07	50mL	50mL	
1201318107	MW0904D	DUP	GROUND WATER	21-APR-07	50mL	50mL	
184428001	MW1203	SAMPLE	GROUND WATER	21-APR-07	50mL	50mL	
184428002	MW0904	SAMPLE	GROUND WATER	21-APR-07	50mL	50mL	
184428003	MW0904DUP	SAMPLE	GROUND WATER	21-APR-07	50mL	50mL	
Batch Number 627497							
1201320019	MB for batch 627497	MB	GROUND WATER	24-APR-07	50mL	50mL	
1201320020	LCS for batch 627497	LCS	GROUND WATER	24-APR-07	50mL	50mL	
1201320022	MW1005DS	MS	GROUND WATER	24-APR-07	50mL	50mL	
1201320021	MW1005DD	DUP	GROUND WATER	24-APR-07	50mL	50mL	
184428008	MWS01	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	
184428009	MWS02	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: CE236

Method Type

Contract: HLAI00107

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	627202						
1201319368	MB for batch 627202	MB	GROUND WATER	24-APR-07	50mL	50mL	
1201319369	LCS for batch 627202	LCS	GROUND WATER	24-APR-07	50mL	50mL	
1201319371	MW1005SS	MS	GROUND WATER	24-APR-07	50mL	50mL	
1201319370	MW1005SD	DUP	GROUND WATER	24-APR-07	50mL	50mL	
184428004	MW0905	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	
184428005	MW0906S	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	
184428006	MW0906D	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	
184428007	MW0907	SAMPLE	GROUND WATER	24-APR-07	50mL	50mL	

**Metals
-14-
Analysis Run Log**

Contract: HLAI00107

Lab Code: GEL

Inst Name: TRACE2

Start Date: 25-APR-07

Client Sdg: CE236

Method: P

Data File: 042507-1

End Date: 26-APR-07

Samp No.	D/F	Run Time	B	Ag	Th	Zr
S0	1	09:05		X		
S0.1	1	09:11		X		
S0.5	1	09:17		X		
SCAL	1	09:23		X		
S10	1	09:29		X		
ICV01	1	09:35		X		
ICB01	1	09:42		X		
PQL01	1	09:48		X		
ICSA01	1	09:54		X		
ICSAB01	1	10:00		X		
LR01	1	10:06		X		
LR02	1	10:12		X		
CCV01	1	10:19		X		
CCB01	1	10:25		X		
LR03	2	10:35		X		
ZZZZZZ	1	10:41				
CCV02	1	10:47		X		
CCB02	1	10:53		X		
ZZZZZZ	1	10:59				
ZZZZZZ	1	11:05				
ZZZZZZ	1	11:11				
ZZZZZZ	1	11:17				
ZZZZZZ	1	11:22				
ZZZZZZ	1	11:28				
CCV03	1	11:34		X		
CCB03	1	11:40		X		
ZZZZZZ	1	11:46				
ZZZZZZ	1	11:52				
ZZZZZZ	1	11:58				
ZZZZZZ	1	12:04				
ZZZZZZ	5	12:10				
ZZZZZZ	1	12:16				
CCV04	1	12:22		X		
CCB04	1	12:28		X		
ZZZZZZ	1	12:36				
ZZZZZZ	1	12:42				
ZZZZZZ	1	12:48				
ZZZZZZ	1	12:53				
ZZZZZZ	1	12:59				
ZZZZZZ	1	13:05				

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time					
ZZZZZZ	1	13:11					
ZZZZZZ	1	13:17					
ZZZZZZ	1	13:23					
ZZZZZZ	5	13:29					
CCV05	1	13:35		X			
CCB05	1	13:41		X			
CCV06	1	14:18		X			
CCB06	1	14:23		X			
ZZZZZZ	1	14:29					
ZZZZZZ	1	14:35					
ZZZZZZ	1	14:41					
ZZZZZZ	1	14:47					
ZZZZZZ	1	14:53					
ZZZZZZ	5	14:59					
CCV07	1	15:05		X			
CCB07	1	15:11		X			
ZZZZZZ	1	15:17					
ZZZZZZ	1	15:23					
ZZZZZZ	1	15:28					
ZZZZZZ	1	15:34					
ZZZZZZ	1	15:40					
ZZZZZZ	1	15:46					
ZZZZZZ	5	15:52					
ZZZZZZ	1	15:58					
ZZZZZZ	1	16:04					
ZZZZZZ	1	16:10					
CCV08	1	16:16		X			
CCB08	1	16:22		X			
ZZZZZZ	1	16:28					
ZZZZZZ	2	16:34					
ZZZZZZ	1	16:39					
ZZZZZZ	1	16:45					
ZZZZZZ	1	16:51					
ZZZZZZ	1	16:57					
ZZZZZZ	5	17:03					
CCV09	1	17:09		X			
CCB09	1	17:15		X			
ZZZZZZ	1	17:21					
ZZZZZZ	1	17:27					
ZZZZZZ	1	17:33					

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	B	Ag	Th	Zr
ZZZZZZ	1	17:39				
ZZZZZZ	1	17:44				
ZZZZZZ	1	17:50				
ZZZZZZ	1	17:56				
ZZZZZZ	1	18:02				
CCV10	1	18:08		X		
CCB10	1	18:14		X		
ZZZZZZ	1	18:20				
ZZZZZZ	1	18:26				
ZZZZZZ	1	18:32				
ZZZZZZ	1	18:38				
ZZZZZZ	1	18:44				
ZZZZZZ	5	18:49				
CCV11	1	18:55		X		
CCB11	1	19:01		X		
ZZZZZZ	1	19:07				
ZZZZZZ	1	19:13				
ZZZZZZ	1	19:19				
ZZZZZZ	1	19:25				
ZZZZZZ	1	19:31				
CCV12	1	19:37		X		
CCB12	1	19:43		X		
ZZZZZZ	1	19:49				
ZZZZZZ	1	19:55				
ZZZZZZ	1	20:00				
ZZZZZZ	1	20:06				
ZZZZZZ	1	20:12				
ZZZZZZ	5	20:18				
ZZZZZZ	1	20:24				
ZZZZZZ	1	20:30				
ZZZZZZ	1	20:36				
CCV13	1	20:42		X		
CCB13	1	20:48		X		
ZZZZZZ	1	20:54				
ZZZZZZ	1	21:00				
ZZZZZZ	1	21:06				
ZZZZZZ	1	21:11				
ZZZZZZ	1	21:17				
ZZZZZZ	5	21:23				
ZZZZZZ	1	21:29				

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time				
ZZZZZZ	1	21:35				
ZZZZZZ	1	21:41				
CCV14	1	21:47	X			
CCB14	1	21:53	X			
ZZZZZZ	1	21:59				
ZZZZZZ	1	22:05				
ZZZZZZ	1	22:11				
ZZZZZZ	1	22:17				
ZZZZZZ	1	22:23				
ZZZZZZ	5	22:28				
ZZZZZZ	1	22:34				
ZZZZZZ	1	22:40				
ZZZZZZ	1	22:46				
CCV15	1	22:52	X			
CCB15	1	22:58	X			
ZZZZZZ	1	23:04				
ZZZZZZ	1	23:10				
ZZZZZZ	1	23:16				
ZZZZZZ	1	23:22				
ZZZZZZ	1	23:28				
ZZZZZZ	1	23:34				
ZZZZZZ	1	23:40				
ZZZZZZ	5	23:46				
CCV16	1	23:51	X			
CCB16	1	23:57	X			
1201319438	1	00:03	X			
1201319439	1	00:09	X			
184428004	1	00:15	X			
1201319440	1	00:21	X			
1201319441	1	00:27	X			
1201319442	5	00:33	X			
184428005	1	00:39	X			
184428006	1	00:45	X			
184428007	1	00:51	X			
CCV17	1	00:57	X			
CCB17	1	01:03	X			
1201319902	1	01:08	X			
1201319903	1	01:14	X			
184428008	1	01:20	X			
184428009	1	01:26	X			

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	B	Ag	Th	Zr
ZZZZZZ	1	01:32				
ZZZZZZ	1	01:38				
ZZZZZZ	1	01:44				
ZZZZZZ	5	01:50				
ZZZZZZ	1	01:56				
ZZZZZZ	1	02:02				
CCV18	1	02:08		X		
CCB18	1	02:14		X		

Metals
-14-
Analysis Run Log

Contract: HLAI00107
Lab Code: GEL
Inst Name: ICPMS3
Start Date: 23-APR-07

End Date: 23-APR-07

Client Sdg: CE236
Method: MS
Data File: 070423-5

Samp No.	D/F	Run Time	B	Ag	Th	Zr
S0.0	1	14:19:00	X		X	X
S10	1	14:23:00	X		X	X
S100	1	14:28:00	X		X	X
ICV01	1	14:33:00	X		X	X
ICB01	1	14:37:00	X		X	X
CRDL01	1	14:42:00	X		X	X
ICSA01	1	14:47:00	X		X	X
ICSAB01	1	14:52:00	X		X	X
CCV01	1	14:56:00	X		X	X
CCB01	1	15:01:00	X		X	X
LR01	1	15:06:00	X		X	X
CCV02	1	15:11:00	X		X	X
CCB02	1	15:15:00	X		X	X
ZZZZZZ	1	15:20:00				
ZZZZZZ	1	15:25:00				
ZZZZZZ	1	15:30:00				
ZZZZZZ	1	15:34:00				
ZZZZZZ	1	15:39:00				
ZZZZZZ	1	15:44:00				
ZZZZZZ	5	15:49:00				
ZZZZZZ	1	15:54:00				
CCV03	1	15:58:00	X		X	X
CCB03	1	16:03:00	X		X	X
ZZZZZZ	2	16:10:00				
ZZZZZZ	2	16:15:00				
ZZZZZZ	2	16:20:00				
ZZZZZZ	2	16:25:00				
ZZZZZZ	2	16:29:00				
ZZZZZZ	2	16:34:00				
ZZZZZZ	10	16:39:00				
CCV04	1	16:44:00	X		X	X
CCB04	1	16:48:00	X		X	X
ZZZZZZ	2	16:54:00				
ZZZZZZ	2	16:58:00				
ZZZZZZ	2	17:03:00				
ZZZZZZ	2	17:08:00				
ZZZZZZ	10	17:13:00				
ZZZZZZ	2	17:18:00				
ZZZZZZ	2	17:22:00				
ZZZZZZ	2	17:27:00				

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time				
CCV05	1	17:32:00	X		X	X
CCB05	1	17:37:00	X		X	X
I201318102	1	17:41:00	X		X	X
I201318103	1	17:46:00	X		X	X
I84428001	1	17:51:00	X		X	X
I84428002	1	17:56:00	X		X	X
I201318107	1	18:00:00	X		X	X
I201318109	1	18:05:00	X		X	X
I201318108	5	18:10:00	X		X	X
CCV06	1	18:15:00	X		X	X
CCB06	1	18:20:00	X		X	X
I84428003	1	18:24:00	X		X	X
ZZZZZ	1	18:29:00				
ZZZZZ	1	18:34:00				
ZZZZZ	1	18:39:00				
ZZZZZ	1	18:44:00				
ZZZZZ	5	18:48:00				
ZZZZZ	1	18:53:00				
ZZZZZ	1	18:58:00				
CCV07	1	19:03:00	X		X	X
CCB07	1	19:07:00	X		X	X

Metals
-14-
Analysis Run Log

Contract: HLAI00107
Lab Code: GEL
Inst Name: ICPMS3
Start Date: 27-APR-07

Client Sdg: CE236
Method: MS
Data File: 070427-8

End Date: 28-APR-07

Samp No.	D/F	Run Time	B	Ag	Th	Zr
S0.0	1	03:27:00	X			
S10	1	03:29:00	X			
S100	1	03:32:00	X			
ICV01	1	03:34:00	X			
ICB01	1	03:36:00	X			
CRDL01	1	03:38:00	X			
ICSA01	1	03:40:00	X			
ICSAB01	1	03:43:00	X			
CCV01	1	03:45:00	X			
CCB01	1	03:47:00	X			
I201320019	1	03:49:00	X			
I201320020	1	03:52:00	X			
184428008	1	03:54:00	X			
184428009	1	03:56:00	X			
ZZZZZZ	1	03:58:00				
ZZZZZZ	1	04:01:00				
ZZZZZZ	1	04:03:00				
ZZZZZZ	5	04:05:00				
CCV02	1	04:07:00	X			
CCB02	1	04:10:00	X			

Metals
-14-
Analysis Run Log

Contract: HLAI00107
Lab Code: GEL
Inst Name: ICPMS3
Start Date: 27-APR-07

Client Sdg: CE236
Method: MS
Data File: 070427-9

End Date: 28-APR-07

Samp No.	D/F	Run Time	B	Ag	Th	Zr
S0.0	1	16:47:00			X	X
S10	1	16:52:00			X	X
S100	1	16:56:00			X	X
ICV01	1	17:01:00			X	X
ICB01	1	17:06:00			X	X
CRDL01	1	17:10:00			X	X
ICSA01	1	17:15:00			X	X
ICSAB01	1	17:20:00			X	X
CCV01	1	17:25:00			X	X
CCB01	1	17:29:00			X	X
LR01	1	17:34:00			X	X
CCV02	1	17:39:00			X	X
CCB02	1	17:44:00			X	X
ZZZZZZ	1	17:48:00				
ZZZZZZ	1	17:53:00				
ZZZZZZ	1	17:58:00				
ZZZZZZ	1	18:03:00				
ZZZZZZ	1	18:07:00				
ZZZZZZ	5	18:12:00				
ZZZZZZ	1	18:17:00				
ZZZZZZ	1	18:22:00				
CCV03	1	18:27:00			X	X
CCB03	1	18:31:00			X	X
1201320019	1	18:36:00			X	X
1201320020	1	18:41:00			X	X
184428008	1	18:46:00			X	X
184428009	1	18:50:00			X	X
ZZZZZZ	1	18:55:00				
ZZZZZZ	1	19:00:00				
ZZZZZZ	1	19:05:00				
ZZZZZZ	1	19:10:00				
ZZZZZZ	1	19:14:00				
ZZZZZZ	5	19:19:00				
CCV04	1	19:24:00			X	X
CCB04	1	19:29:00			X	X

Metals
-14-
Analysis Run Log

Contract: HLAI00107
Lab Code: GEL
Inst Name: ICPMS3
Start Date: 30-APR-07

End Date: 01-MAY-07

Client Sdg: CE236
Method: MS
Data File: 070430-10

Samp No.	D/F	Run Time	B	Ag	Th	Zr
S0.0	1	12:13:00	X		X	X
S10	1	12:17:00	X		X	X
S100	1	12:22:00	X		X	X
ICV01	1	12:27:00	X		X	X
ICB01	1	12:32:00	X		X	X
CRDL01	1	12:36:00	X		X	X
ICSA01	1	12:41:00	X		X	X
ICSAB01	1	12:46:00	X		X	X
CCV01	1	12:50:00	X		X	X
CCB01	1	12:55:00	X		X	X
LR01	1	13:00:00	X		X	X
CCV02	1	13:05:00	X		X	X
CCB02	1	13:09:00	X		X	X
ZZZZZZ	2	13:14:00				
ZZZZZZ	2	13:19:00				
ZZZZZZ	2	13:24:00				
ZZZZZZ	2	13:29:00				
ZZZZZZ	2	13:33:00				
ZZZZZZ	2	13:38:00				
ZZZZZZ	2	13:43:00				
ZZZZZZ	10	13:48:00				
ZZZZZZ	2	13:52:00				
ZZZZZZ	2	13:57:00				
CCV03	1	14:02:00	X		X	X
CCB03	1	14:07:00	X		X	X
ZZZZZZ	10	14:11:00				
ZZZZZZ	10	14:16:00				
ZZZZZZ	10	14:21:00				
ZZZZZZ	10	14:26:00				
ZZZZZZ	10	14:30:00				
ZZZZZZ	50	14:35:00				
ZZZZZZ	10	14:40:00				
ZZZZZZ	10	14:45:00				
CCV04	1	14:49:00	X		X	X
CCB04	1	14:54:00	X		X	X
ZZZZZZ	25	15:01:00				
ZZZZZZ	25	15:06:00				
ZZZZZZ	25	15:11:00				
ZZZZZZ	25	15:15:00				
ZZZZZZ	125	15:20:00				

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time			
ZZZZZZ	25	15:25:00			
CCV05	1	15:30:00	X	X	X
CCB05	1	15:34:00	X	X	X
ZZZZZZ	1	15:39:00			
ZZZZZZ	1	15:44:00			
ZZZZZZ	1	15:49:00			
ZZZZZZ	1	15:54:00			
ZZZZZZ	1	15:59:00			
ZZZZZZ	1	16:03:00			
ZZZZZZ	5	16:08:00			
ZZZZZZ	1	16:13:00			
ZZZZZZ	1	16:18:00			
CCV06	1	16:23:00	X	X	X
CCB06	1	16:27:00	X	X	X
1201319368	1	16:33:00	X	X	X
1201319369	1	16:38:00	X	X	X
184428004	1	16:42:00	X	X	X
184428005	1	16:47:00	X	X	X
184428006	1	16:52:00	X	X	X
184428007	1	16:56:00	X	X	X
CCV07	1	17:01:00	X	X	X
CCB07	1	17:06:00	X	X	X
ZZZZZZ	1	17:13:00			
ZZZZZZ	1	17:17:00			
ZZZZZZ	1	17:22:00			
ZZZZZZ	5	17:27:00			
ZZZZZZ	1	17:32:00			
ZZZZZZ	1	17:36:00			
ZZZZZZ	1	17:41:00			
CCV08	1	17:46:00	X	X	X
CCB08	1	17:51:00	X	X	X

**Metals
-14-
Analysis Run Log**

Contract: HLAI00107

Lab Code: GEL

Inst Name: OPTIMA1

Start Date: 23-APR-07

Client Sdg: CE236

Method: P

Data File: 042307-16

End Date: 23-APR-07

Samp No.	D/F	Run Time	B	Ag	Th	Zr
S0.0	1	17:18		X		
S0.1	1	17:26		X		
S0.5	1	17:32		X		
SCAL	1	17:39		X		
S10	1	17:46		X		
ICV01	1	17:51		X		
ICB01	1	17:58		X		
PQL01	1	18:06		X		
ZZZZZZ	1	18:13				
ICSA01	1	18:22		X		
ICSAB01	1	18:27		X		
LR01	1	18:33		X		
LR02	1	18:39		X		
CCV01	1	18:46		X		
CCB01	1	18:53		X		
LR03	1	19:00		X		
CCV02	1	19:07		X		
CCB02	1	19:14		X		
ZZZZZZ	1	19:21				
ZZZZZZ	1	19:29				
ZZZZZZ	1	19:36				
ZZZZZZ	1	19:43				
ZZZZZZ	1	19:50				
ZZZZZZ	5	19:57				
ZZZZZZ	1	20:04				
CCV03	1	20:11		X		
CCB03	1	20:18		X		
ZZZZZZ	1	20:26				
ZZZZZZ	1	20:34				
ZZZZZZ	1	20:41				
ZZZZZZ	5	20:53				
CCV04	1	21:03		X		
CCB04	1	21:10		X		
ZZZZZZ	1	21:17				
ZZZZZZ	1	21:24				
CCV05	1	21:37		X		
CCB05	1	21:45		X		
I201318158	1	21:52		X		
I201318159	1	22:00		X		
ZZZZZZ	1	22:07				

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time				
ZZZZZZ	1	22:14				
ZZZZZZ	1	22:21				
ZZZZZZ	1	22:28				
ZZZZZZ	5	22:35				
ZZZZZZ	1	22:42				
CCV06	1	22:49		X		
CCB06	1	22:56		X		
184428001	5	23:09		X		
184428002	5	23:16		X		
1201318160	5	23:23		X		
1201318161	5	23:30		X		
1201318162	25	23:37		X		
184428003	5	23:44		X		
CCV07	1	23:51		X		
CCB07	1	23:58		X		

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. CE236

Contract: HLAI00107

Lab Code: GEL

IDL Effective Date: 01-FEB-07

ICP/MS	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>IDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
LIQUID	Boron		2.0	15
	Silver		0.01	1
	Thorium		0.3	1
	Uranium-235		0.001	.07
	Uranium-238		0.01	.2
	Zirconium		0.1	2

METALS
-10-
Instrument Detection Limits

SDG NO. CE236

Contract: HLAI00107

Lab Code: GEL

IDL Effective Date: 01-FEB-07

	<u>Analyte</u>	<u>Wavelength (nm)</u>	<u>IDL ug/L</u>	<u>RDL ug/L</u>
ICP	Boron	249.678	16.0	50
	Silver	328.068	1.0	5

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: CE236

Contract: HLA100107

Instrument: TRACE2

Effective Dates: 01-FEB-07

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Antimony	Cadmium	Calcium	Chromium	Cobalt
Parmname	Wavelength					
Antimony	206.838	0.00000	0.00000	0.00000	0.00513	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00030	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.00022	0.00000
Copper	324.753	0.00000	0.00000	0.00000	0.00000	-0.00155
Lead	220.352	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	-0.00051
Selenium	196.022	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	288.158	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00003	0.00000	0.00000
Thallium	190.864	0.00000	0.00000	0.00000	0.00060	-0.00261
Tin	189.989	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	385.958	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.858	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: HLA100107
Instrument: TRACE2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: CE236
Effective Dates: 01-FEB-07

		Copper	Lead	Manganese	Nickel	Selenium
Parmname	Wavelength					
Antimony	206.838	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.753	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.352	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.022	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	288.158	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.864	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.989	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	385.958	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.858	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: HLA100107
Instrument: TRACE2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: CE236
Effective Dates: 01-FEB-07

		Silica	Silver	Strontium	Thallium	Tin
Parmname	Wavelength					
Antimony	206.838	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.753	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.352	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.022	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	288.158	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.864	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.989	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	385.958	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.858	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
 Contract: HLA100107
 Instrument: TRACE2
 Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: CE236
 Effective Dates: 01-FEB-07

Parmname	Wavelength	Uranium	Vanadium	Zinc
Antimony	206.838	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000
Chromium	267.716	0.00089	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000
Copper	324.753	0.00071	0.00000	0.00000
Lead	220.352	0.00052	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000
Selenium	196.022	0.00000	0.00000	0.00000
Silica	288.158	0.00000	0.00000	0.00000
Silver	328.068	0.00061	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000
Thallium	190.864	0.00000	-0.00257	0.00000
Tin	189.989	0.00000	0.00000	0.00000
Uranium	385.958	0.00000	-0.00645	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000
Zinc	213.858	0.00054	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: CE236

Contract: HLA100107

Instrument: OPTIMA1

Effective Dates: 01-FEB-07

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.46476	0.00000
Copper	324.752	0.02063	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.06301	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	-0.00642	0.00000	0.00000	0.50420	0.00000
Phosphorous	214.914	-0.44103	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.13700	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.03358	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	-0.00792	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.14389	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.07839	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.01069	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: CE236

Contract: HLA100107

Instrument: OPTIMA1

Effective Dates: 01-FEB-07

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Calcium	Chromium	Cobalt
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.02932	18.8800	0.00000
Arsenic	188.979	0.00000	0.00000	0.04669	-1.11020	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	4.21569
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	5.70450	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.25304	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	-36.5499
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	1.15440
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.23213	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	-0.06427	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.26610	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.03029	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.11177	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.03909	0.00000	5.37205
Tin	189.927	0.00000	0.00000	-0.03747	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	-0.10891	0.36226	0.00000
Uranium	409.014	0.00000	0.00000	0.19164	1.12756	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.21750	0.00000
Zinc	213.857	0.00000	0.00000	0.02577	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: CE236

Contract: HLA100107

Instrument: OPTIMA1

Effective Dates: 01-FEB-07

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Copper	Iron	Lead	Magnesium	Manganese
Aluminium	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	-0.07328	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.03092	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.09221	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	-0.09161	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	1.32680	0.07230	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.84678	0.00000	0.00000	0.00000
Manganese	257.61	0.03086	-0.10100	0.00000	0.01942	0.00000
Molybdenum	202.031	0.00000	-0.04314	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	13.9189	1.13240	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	-1.95288	0.00000	0.07039	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	-2.80841
Tin	189.927	0.00000	0.00000	0.00000	-0.02695	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.23140	0.00000	0.00000	5.58650
Vanadium	292.402	0.00000	0.08910	0.00000	0.00000	0.00000
Zinc	213.857	2.01189	0.11542	0.00000	0.03875	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: CE236

Contract: HLA100107

Instrument: OPTIMA1

Effective Dates: 01-FEB-07

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Molybdenum	Nickel	Phosphorous	Potassium	Selenium
Aluminum	396.153	38.4990	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-14.3350	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	1.18880	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	16.3220	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	-2.07170	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.50714	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-3.11475	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	-21.8490	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	23.9360	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	-8.08590	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	1.10496	0.00000	0.00000	0.02036	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: CE236

Contract: HLA100107

Instrument: OPTIMA1

Effective Dates: 01-FEB-07

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Silicon	Silver	Sodium	Strontium	Sulfur
Aluminium	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	-0.00622	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: CE236

Contract: HLA100107

Instrument: OPTIMA1

Effective Dates: 01-FEB-07

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Thallium	Tin	Titanium	Uranium	Vanadium
Aluminum	396.153	0.00000	0.00000	0.00000	1.66375	0.00000
Antimony	206.836	0.00000	0.00000	1.24370	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	2.83040	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-0.02617	-2.22410
Beryllium	313.107	0.00000	0.00000	-2.79570	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	-0.42395	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.65495	-1.24555
Cobalt	228.616	0.00000	0.00000	2.11330	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	-0.78330	0.71550	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.30045	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	-0.53170	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	-6.20910	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	-14.3798	-0.73997	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.56313	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	-1.65840	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.53121	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: CE236

Contract: HLA100107

Instrument: OPTIMA1

Effective Dates: 01-FEB-07

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Zinc
Aluminum	396.153	0.00000
Antimony	206.836	0.00000
Arsenic	188.979	0.00000
Barium	233.527	0.00000
Beryllium	313.107	0.00000
Boron	249.677	0.00000
Cadmium	226.502	0.00000
Calcium	317.933	0.00000
Chromium	267.716	0.00000
Cobalt	228.616	0.00000
Copper	324.752	0.00000
Iron	238.204	0.00000
Lead	220.353	0.00000
Magnesium	279.077	0.00000
Manganese	257.61	0.00000
Molybdenum	202.031	0.00000
Nickel	231.604	0.00000
Phosphorous	214.914	0.00000
Potassium	766.49	0.00000
Selenium	196.026	0.00000
Silicon	251.611	0.00000
Silver	328.068	0.00000
Sodium	589.592	0.00000
Strontium	421.552	0.00000
Sulfur	181.975	0.00000
Thallium	190.801	0.00000
Tin	189.927	0.00000
Titanium	334.94	0.00000
Uranium	409.014	0.00000
Vanadium	292.402	0.00000
Zinc	213.857	0.00000

METALS
-12-
Linear Ranges

SDG NO. CE236

Contract: HLAI00107

Lab Code: GEL

Instrument ID TRACE2

<u>Analyte</u>	<u>Integration Time</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Boron		5000	ug/L	01-FEB-07
Silver		1000	ug/L	01-FEB-07

METALS
-12-
Linear Ranges

SDG NO. CE236

Contract: HLAI00107

Lab Code: GEL

Instrument ID ICPMS3

<u>Analyte</u>	<u>Integration Time</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Boron		200	ug/L	01-FEB-07
Silver		250	ug/L	01-FEB-07
Thorium		2500	ug/L	01-FEB-07
Zirconium		500	ug/L	01-FEB-07

METALS
-12-
Linear Ranges

SDG NO. CE236

Contract: HLAI00107

Lab Code: GEL

Instrument ID OPTIMA1

<u>Analyte</u>	<u>Integration Time</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Boron		5000	ug/L	01-FEB-07
Silver		1000	ug/L	01-FEB-07

Raw Data

Method: TRACE2 Standard: S0

Run Time: 04/25/07 09:05:39

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Avge	-.0012	.0020	.0006	.0006	.0015	.0006	.0003
SDev	.0005	.0001	.0022	.0005	.0001	.0001	.0002
%RSD	43.71	6.602	390.6	97.37	8.315	18.00	56.92

#1	-.0018	.0020	-.0019	.0006	.0014	.0005	.0002
#2	-.0010	.0019	.0023	.0000	.0014	.0007	.0003
#3	-.0008	.0022	.0014	.0011	.0016	.0005	.0005

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	Fe_	K_7664
Avge	.0002	-.0011	-.0007	.0044	.0002	.0005	.0861
SDev	.0034	.0004	.0006	.0011	.0010	.0003	.0283
%RSD	2076.	36.80	85.51	24.29	654.0	46.73	32.87

#1	-.0034	-.0013	-.0014	.0037	-.0008	.0006	.0786
#2	.0033	-.0014	-.0006	.0056	.0012	.0008	.1175
#3	.0006	-.0007	-.0002	.0038	.0001	.0003	.0624

Elem	Mg_279	Mn_257	Mo_202	Na_	Na_	Ni_231	Sb_206
Avge	-.0000	-.0001	-.0001	.0005	-1.355	.0005	-.0003
SDev	.0003	.0000	.0003	.0039	.021	.0038	.0022
%RSD	2936.	41.05	305.6	790.8	1.561	747.7	648.4

#1	-.0002	-.0001	-.0005	-.0028	-1.350	-.0027	-.0021
#2	-.0002	-.0001	-.0001	.0048	-1.336	.0047	.0021
#3	.0004	-.0001	.0002	-.0006	-1.378	-.0005	-.0009

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Avge	.0003	-.0024	-.0015	.0177	-.0001	.0001	.0052
SDev	.0006	.0005	.0008	.0020	.0002	.0002	.0017
%RSD	180.5	18.73	53.01	11.37	160.0	221.9	32.36

#1	-.0003	-.0023	-.0024	.0160	-.0003	-.0002	.0033
#2	.0010	-.0029	-.0009	.0199	-.0002	.0003	.0066
#3	.0003	-.0020	-.0012	.0172	.0001	.0002	.0056

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Avge	.0101	.0101	.0045	.0106	-.0032	.0060	-.0011
SDev	.0011	.0011	.0003	.0250	.0064	.0094	.0028
%RSD	11.34	11.34	7.595	235.5	201.9	158.2	251.0

#1	.0091	.0091	.0041	-.0112	.0039	-.0044	.0016
#2	.0114	.0114	.0044	.0379	-.0086	.0139	-.0040
#3	.0099	.0099	.0048	.0052	-.0048	.0084	-.0010

Method: TRACE2 Standard: S0.1

Run Time: 04/25/07 09:11:35

Elem	Ag_328	As_189	B_2496	Ba_493	Be_313	Cd_226	Co_228
Avge	.0695	.0356	.0453	.1367	.2880	.6136	.1251
SDev	.0013	.0015	.0013	.0003	.0009	.0040	.0021
%RSD	1.797	4.156	2.831	.1971	.3311	.6533	1.648

#1	.0692	.0344	.0440	.1368	.2885	.6089	.1236
#2	.0685	.0373	.0453	.1364	.2869	.6161	.1243
#3	.0709	.0352	.0466	.1369	.2885	.6156	.1274

Elem	Cr_267	Cu_324	K_7664	Mn_257	Mo_202	Ni_231	Sb_206
Avge	.1147	.0524	1.201	.1270	.0365	.1380	.0181
SDev	.0009	.0025	.083	.0005	.0005	.0021	.0014
%RSD	.7788	4.690	6.870	.4158	1.449	1.545	8.011

#1	.1141	.0502	1.121	.1264	.0362	.1356	.0166
#2	.1143	.0550	1.286	.1275	.0362	.1398	.0195
#3	.1157	.0520	1.196	.1272	.0371	.1386	.0182

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Avge	.0570	.3270	.0196	.0202	.0334	.0526	.1066
SDev	.0020	.0020	.0018	.0021	.0003	.0007	.0009
%RSD	3.575	.6176	9.050	10.16	.9103	1.249	.8599

#1	.0552	.3274	.0176	.0179	.0332	.0519	.1065
#2	.0566	.3248	.0203	.0220	.0333	.0529	.1057
#3	.0592	.3288	.0209	.0206	.0337	.0531	.1075

Elem	Si_288	SiO2_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Avge	.0748	.0748	.6901	.2099	.0646	.0656	.0430
SDev	.0011	.0011	.0027	.0184	.0037	.0043	.0053
%RSD	1.510	1.510	.3961	8.785	5.661	6.498	12.19

#1	.0737	.0737	.6926	.1947	.0650	.0636	.0420
#2	.0760	.0760	.6872	.2304	.0607	.0705	.0384
#3	.0747	.0747	.6904	.2045	.0680	.0627	.0487

Method: TRACE2 Standard: S0.5

Run Time: 04/25/07 09:17:30

Elem	Ag_328	As_189	B_2496	Ba_493	Be_313	Cd_226	Co_228
Avge	.3457	.1753	.2243	.6784	1.447	3.031	.6208
SDev	.0013	.0003	.0009	.0014	.003	.010	.0002
%RSD	.3890	.1462	.4057	.2087	.1918	.3367	.0260

#1	.3458	.1755	.2235	.6777	1.446	3.023	.6208
#2	.3470	.1751	.2242	.6775	1.450	3.042	.6206
#3	.3443	.1755	.2253	.6800	1.445	3.028	.6210

Elem	Cr_267	Cu_324	Fe_	K_7664	Mn_257	Mo_202	Ni_231
Avge	.5700	.2489	4.148	5.745	.6377	.1827	.6820
SDev	.0004	.0012	.018	.025	.0008	.0013	.0022
%RSD	.0768	.4854	.4353	.4338	.1248	.7049	.3281

#1	.5700	.2502	4.146	5.773	.6378	.1813	.6796
#2	.5696	.2488	4.132	5.737	.6369	.1829	.6840
#3	.5705	.2478	4.168	5.725	.6385	.1838	.6825

Elem	Sb_206	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213
Avge	.0908	.2820	1.633	.1002	.0302	.1672	.2608
SDev	.0013	.0014	.006	.0007	.0006	.0003	.0004
%RSD	1.432	.5011	.3469	.7301	2.120	.1672	.1586

#1	.0894	.2808	1.630	.0999	.0297	.1673	.2608
#2	.0910	.2835	1.639	.0996	.0309	.1669	.2604
#3	.0919	.2816	1.629	.1010	.0300	.1675	.2612

Elem	P_1782	Si_288	SiO2_	Sr_421	Pb1st	Pb2nd	Se1st
Avge	.5113	.3341	.3341	3.435	1.057	.3170	.3422
SDev	.0034	.0018	.0018	.008	.006	.0019	.0035
%RSD	.6623	.5339	.5330	.2417	.6083	.5892	1.013

#1	.5138	.3357	.3357	3.427	1.050	.3158	.3413
#2	.5126	.3345	.3345	3.444	1.063	.3161	.3461
#3	.5075	.3322	.3322	3.435	1.056	.3192	.3393

Elem	Se2nd
Avge	.2080
SDev	.0018
%RSD	.8840

#1	.2095
#2	.2086
#3	.2060

Method: TRACE2 Standard: SCAL

Run Time: 04/25/07 09:23:25

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Avge	.6918	.5894	.3450	.4490	1.356	2.894	2.181
SDev	.0013	.0015	.0010	.0006	.001	.002	.002
%RSD	.1861	.2527	.2930	.1414	.0959	.0799	.0761

#1	.6924	.5907	.3439	.4488	1.356	2.894	2.183
#2	.6903	.5877	.3453	.4484	1.354	2.892	2.180
#3	.6927	.5897	.3459	.4497	1.356	2.896	2.179

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	Fe_	K_7664
Avge	5.994	1.241	1.138	.4877	.1621	8.314	11.04
SDev	.004	.001	.001	.0015	.0007	.023	.03
%RSD	.0681	.0447	.0835	.3068	.4385	.2760	.2689

#1	5.990	1.240	1.139	.4881	.1620	8.321	11.06
#2	5.995	1.241	1.139	.4861	.1615	8.332	11.01
#3	5.998	1.241	1.137	.4890	.1629	8.288	11.06

Elem	Mg_279	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Sn_189
Avge	.6233	1.278	.3656	28.97	1.343	.1786	.5655
SDev	.0007	.001	.0005	.12	.005	.0017	.0000
%RSD	.1169	.1006	.1375	.4225	.3858	.9407	.0058

#1	.6241	1.279	.3656	29.11	1.342	.1767	.5655
#2	.6229	1.279	.3661	28.87	1.339	.1800	.5654
#3	.6228	1.276	.3651	28.93	1.349	.1791	.5655

Elem	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782	Si_288
Avge	3.279	.1968	.0415	.3352	.5168	.9951	.6532
SDev	.006	.0010	.0007	.0006	.0002	.0040	.0013
%RSD	.1856	.5022	1.663	.1719	.0413	.3966	.2019

#1	3.278	.1976	.0408	.3355	.5167	.9995	.6530
#2	3.274	.1971	.0415	.3355	.5170	.9918	.6521
#3	3.286	.1957	.0422	.3345	.5166	.9941	.6547

Elem	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Avge	.6532	6.851	2.053	.6427	.6725	.4261
SDev	.0013	.009	.008	.0053	.0054	.0053
%RSD	.2036	.1332	.3795	.8331	.8022	1.255

#1	.6530	6.851	2.049	.6486	.6679	.4322
#2	.6520	6.842	2.048	.6381	.6711	.4222
#3	.6546	6.860	2.062	.6415	.6784	.4239

Method: TRACE2 Standard: S10

Run Time: 04/25/07 09:29:20

Elem	Al_308	Ca_317	Fe_	Mg_279	Na_
Avg	2.949	10.69	.3177	3.050	.1427
SDev	.013	.02	.0020	.007	.0007
%RSD	.4269	.2006	.6172	.2293	.5034
#1	2.947	10.69	.3160	3.050	.1418
#2	2.963	10.71	.3172	3.058	.1431
#3	2.938	10.67	.3198	3.044	.1430

Standardization

Report

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Method: TRACE2

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag_328	328.068	Multiple	Standards	1432.53	1.74842	04/25/07 09:23:25
Al_308	308.215	Multiple	Standards	16995.6	-34.4718	04/25/07 09:29:20
As_189	189.042	Multiple	Standards	2872.42	-1.64134	04/25/07 09:23:25
B_2496	249.678	Multiple	Standards	2233.17	-1.24329	04/25/07 09:23:25
Ba_493	493.409	Multiple	Standards	738.897	-1.08860	04/25/07 09:23:25
Be_313	313.042	Multiple	Standards	346.412	-.191572	04/25/07 09:23:25
Ca_317	317.933	Multiple	Standards	4632.39	-2.32685	04/25/07 09:29:20
Cd_226	226.502	Multiple	Standards	164.999	-.037424	04/25/07 09:23:25
Co_228	228.616	Multiple	Standards	802.263	.897219	04/25/07 09:23:25
Cr_267	267.716	Multiple	Standards	874.276	.605854	04/25/07 09:23:25
Cu_324	324.753	Multiple	Standards	2059.56	-8.98674	04/25/07 09:23:25
Fe_	271.441	Multiple	Standards	62357.9	-10.4982	04/25/07 09:29:20
Fe_	259.940	Multiple	Standards	1204.16	-.623750	04/25/07 09:23:25
K_7664	766.491	Multiple	Standards	897.561	-77.3453	04/25/07 09:23:25
Mg_279	279.078	Multiple	Standards	16216.5	-.666502	04/25/07 09:29:20
Mn_257	257.610	Multiple	Standards	784.373	.075850	04/25/07 09:23:25
Mo_202	202.030	Multiple	Standards	2733.49	.306310	04/25/07 09:23:25
Na_	330.232	S10	S0	140675.	-69.0130	04/25/07 09:29:20
Na_	588.950	SCAL	S0	329.761	446.719	04/25/07 09:29:20
Ni_231	231.604	Multiple	Standards	734.950	-.382342	04/25/07 09:23:25
Sb_206	206.838	Multiple	Standards	5500.94	1.81855	04/25/07 09:23:25
Pb_220	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Se_196	196.026	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Sn_189	189.989	Multiple	Standards	1759.60	-.609319	04/25/07 09:23:25
Ti_334	334.941	Multiple	Standards	304.686	.731226	04/25/07 09:23:25
Tl_190	190.864	Multiple	Standards	4863.95	7.34450	04/25/07 09:23:25
U_3859	385.958	Multiple	Standards	41046.2	-725.859	04/25/07 09:23:25
V_2924	292.402	Multiple	Standards	2985.68	.360563	04/25/07 09:23:25
Zn_213	213.858	Multiple	Standards	1923.75	-.206142	04/25/07 09:23:25
P_1782	178.287	Multiple	Standards	4974.09	-25.9036	04/25/07 09:23:25
Si_288	288.158	Multiple	Standards	7769.28	-78.8437	04/25/07 09:23:25
Si02_	288.158	Multiple	Standards	16557.3	-168.026	04/25/07 09:23:25
Sr_421	421.552	Multiple	Standards	145.900	-.650764	04/25/07 09:23:25
Pb1st	220.351	Multiple	Standards	491.300	-5.20188	04/25/07 09:23:25
Pb2nd	220.352	Multiple	Standards	1521.66	4.79707	04/25/07 09:23:25
Se1st	196.021	Multiple	Standards	1549.38	-9.16086	04/25/07 09:23:25
Se2nd	196.022	Multiple	Standards	2325.23	2.55674	04/25/07 09:23:25

Standardization

Readback Report

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Method: TRACE2

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag_328	328.068	S0	.000000	-.011427	.011427
		S0.1	100.000	101.338	-1.33781
		S0.5	500.000	496.919	3.08124
		SCAL	1000.00	992.775	7.22473

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al_308	308.215	S0	.000000	.141068	-.141068
		SCAL	10000.0	9982.37	17.6338
		S10	50000.0	50088.2	-88.1680

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As_189	189.042	S0	.000000	-.006211	.006211
		S0.1	100.000	100.645	-.644989
		S0.5	500.000	502.032	-2.03244
		SCAL	1000.00	989.485	10.5148

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	S0	.000000	.000761	-.000761
		S0.1	100.000	99.9217	.078262
		S0.5	500.000	499.718	.282318
		SCAL	1000.00	1001.35	-1.34741

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba_493	493.409	S0	.000000	.000758	-.000758
		S0.1	100.000	99.9116	.088425
		S0.5	500.000	500.187	-.187347
		SCAL	1000.00	1000.51	-.509521

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be_313	313.042	S0	.000000	.003752	-.003752
		S0.1	100.000	99.5599	.440079
		S0.5	500.000	501.043	-1.04303
		SCAL	1000.00	1002.31	-2.31476

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca_317	317.933	S0	.000000	-.791074	.791074
		SCAL	10000.0	10099.2	-99.1797
		S10	50000.0	49505.6	494.410

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd_226	226.502	S0	.000000	-.010755	.010755
		S0.1	100.000	101.200	-1.19983
		S0.5	500.000	500.053	-.053162
		SCAL	1000.00	988.989	11.0113

CorCoef: 0.99998

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
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Co_228	228.616	S0	.000000	-.008980	.008980
		S0.1	100.000	101.252	-1.25172
		S0.5	500.000	498.939	1.06091
		SCAL	1000.00	996.215	3.78491

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr_267	267.716	S0	.000000	-.006925	.006925
		S0.1	100.000	100.891	-.891289
		S0.5	500.000	498.969	1.03101
		SCAL	1000.00	995.819	4.18097

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu_324	324.753	S0	.000000	.008006	-.008006
		S0.1	100.000	98.9037	1.09628
		S0.5	500.000	503.651	-3.65073
		SCAL	1000.00	995.554	4.44611

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe_	271.441	S0	.000000	-.503167	.503167
		SCAL	10000.0	10100.6	-100.634
		S10	20000.0	19798.7	201.268

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe_	259.940	S0	.000000	.026307	-.026307
		S0.5	5000.00	4994.74	5.26123
		SCAL	10000.0	10010.5	-10.5234

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K_7664	766.491	S0	.000000	-.023982	.023982
		S0.1	1000.00	1000.91	-.907043
		S0.5	5000.00	5079.07	-79.0732
		SCAL	10000.0	9832.78	167.218

CorCoef: 0.99985

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg_279	279.078	S0	.000000	-.852790	.852790
		SCAL	10000.0	10106.6	-106.599
		S10	50000.0	49467.0	532.996

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn_257	257.610	S0	.000000	.002495	-.002495
		S0.1	100.000	99.7163	.283714
		S0.5	500.000	500.293	-.292633
		SCAL	1000.00	1002.44	-2.44238

CorCoef: 1.00000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo_202	202.030	S0	.000000	-.000865	.000865
		S0.1	100.000	100.103	-.103386
		S0.5	500.000	499.671	.329071
		SCAL	1000.00	999.624	.375732

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na_	330.232	S0	.000000	-.000003	.000003
		S10	20000.0	20000.0	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na_	588.950	S0	.000000	.000008	-.000008
		SCAL	10000.0	10000.0	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni_231	231.604	S0	.000000	-.010060	.010060
		S0.1	100.000	101.046	-1.04601
		S0.5	500.000	500.852	-.851868
		SCAL	1000.00	987.005	12.9946

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb_206	206.838	S0	.000000	-.012726	.012726
		S0.1	100.000	101.374	-1.37396
		S0.5	500.000	501.164	-1.16373
		SCAL	1000.00	984.344	15.6556

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb_220	220.353	NONE	.000000	.000000	.000000
		NONE	10.0000	.000000	10.0000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se_196	196.026	NONE	.000000	.000000	.000000
		NONE	10.0000	.000000	10.0000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn_189	189.989	S0	.000000	-.002134	.002134
		S0.1	100.000	99.6792	.320793
		S0.5	500.000	495.524	4.47604
		SCAL	1000.00	994.412	5.58807

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti_334	334.941	S0	.000000	-.002864	.002864
		S0.1	100.000	100.357	-.357140
		S0.5	500.000	498.250	1.74960
		SCAL	1000.00	999.928	.072327

CorCoef: 1.00000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl_190	190.864	S0	.000000	-.027742	.027742
		S0.1	100.000	102.592	-2.59198
		S0.5	500.000	494.525	5.47455
		SCAL	1000.00	964.468	35.5325

CorCoef: 0.99991

Known Measured Residual

Element	Wavelength	Standard	Concentration	Concentration	Concentration
U_3859	385.958	S0	.000000	-.014195	.014195
		S0.1	100.000	101.848	-1.84764
		S0.5	500.000	514.824	-14.8237
		SCAL	1000.00	977.357	22.6426

CorCoef: 0.99961

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	S0	.000000	-.000465	.000465
		S0.1	100.000	100.087	-.086716
		S0.5	500.000	499.592	.408417
		SCAL	1000.00	1001.08	-1.07654

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn_213	213.858	S0	.000000	-.007873	.007873
		S0.1	100.000	101.053	-1.05327
		S0.5	500.000	501.523	-1.52328
		SCAL	1000.00	993.929	6.07086

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P_1782	178.287	S0	.000000	-.040646	.040646
		S0.1	500.000	504.130	-4.12952
		S0.5	2500.00	2517.40	-17.4014
		SCAL	5000.00	4923.90	76.0981

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si_288	288.158	S0	.000000	-.007663	.007663
		S0.1	500.000	502.540	-2.54022
		S0.5	2500.00	2517.04	-17.0442
		SCAL	5000.00	4996.32	3.67529

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si02_	288.158	S0	.000000	-.016596	.016596
		S0.1	1069.50	1070.98	-1.47559
		S0.5	5347.50	5364.00	-16.4976
		SCAL	10695.0	10647.2	47.7539

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr_421	421.552	S0	.000000	-.000364	.000364
		S0.1	100.000	100.028	-.028305
		S0.5	500.000	500.547	-.546997
		SCAL	1000.00	998.933	1.06744

CorCoef: 1.00000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb1st	220.351	S0	.000000	.017300	-.017300
		S0.1	100.000	97.9176	2.08241
		S0.5	500.000	513.932	-13.9323
		SCAL	1000.00	1003.42	-3.42371

CorCoef: 0.99986

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
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Pb2nd	220.352	S0	.000000	-.028174	.028174
		S0.1	100.000	103.064	-3.06397
		S0.5	500.000	487.205	12.7950
		SCAL	1000.00	982.787	17.2130

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1st	196.021	S0	.000000	.063238	-.063238
		S0.1	100.000	92.5050	7.49501
		S0.5	500.000	521.071	-21.0710
		SCAL	1000.00	1032.77	-32.7665

CorCoef: 0.99992

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se2nd	196.022	S0	.000000	-.021485	.021485
		S0.1	100.000	102.653	-2.65310
		S0.5	500.000	486.239	13.7610
		SCAL	1000.00	993.334	6.66626

CorCoef: 0.99992

Method: TRACE2 Sample Name: ICV

Operator: HSC

Run Time: 04/25/07 09:35:38

Comment: CALIBRATION CURVE

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	243.9	4830.	500.2	500.4	505.1	257.9	5053.
SDev	1.4	21.	3.7	2.4	1.0	.4	5.
%RSD	.5576	.4271	.7421	.4871	.1996	.1575	.0897

#1	242.9	4806.	504.2	497.8	505.7	257.6	5057.
#2	243.2	4839.	499.7	502.6	505.6	257.8	5053.
#3	245.4	4845.	496.8	500.9	503.9	258.4	5048.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	250.0	5000.	500.0	500.0	500.0	250.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	494.0	500.1	495.2	500.3	5035.	2568.	5000.
SDev	1.0	.6	.5	2.0	36.	22.	9.
%RSD	.1997	.1262	.1070	.4096	.7222	.8730	.1715

#1	493.1	500.4	495.7	498.7	5073.	2566.	5007.
#2	493.9	499.3	495.3	499.6	5030.	2547.	4991.
#3	495.1	500.4	494.7	502.7	5001.	2592.	5004.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	2500.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	496.7	505.9	2500.	490.2	498.5	496.1	2524.
SDev	1.2	1.0	21.	1.7	3.3	5.2	18.
%RSD	.2513	.2053	.8299	.3543	.6691	1.042	.7275

#1	497.9	507.0	2501.	488.3	498.6	501.4	2539.
#2	496.8	505.7	2479.	490.5	495.1	491.0	2503.
#3	495.4	505.0	2520.	491.8	501.8	495.9	2529.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	2500.	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	506.0	488.2	482.5	498.1	493.2	489.8	2490.
SDev	1.5	1.4	5.1	36.2	1.3	1.8	6.
%RSD	.2889	.2802	1.066	7.272	.2633	.3750	.2518

#1	505.4	486.8	476.6	482.8	494.4	491.3	2494.
#2	505.0	488.2	485.6	472.0	493.3	490.2	2483.
#3	507.7	489.6	485.3	539.4	491.8	487.8	2493.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4921.	10510.	501.8	500.5	493.9	2599.	2486.
SDev	19.	40.	1.6	4.8	5.5	21.	17.
%RSD	.3807	.3783	.3238	.9513	1.112	.8010	.6966
#1	4900.	10460.	500.0	504.5	499.8	2619.	2499.
#2	4930.	10530.	503.1	495.2	489.0	2578.	2466.
#3	4934.	10530.	502.5	501.8	493.0	2601.	2492.
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	5000.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: ICB

Operator: HSC

Run Time: 04/25/07 09:42:42

Comment: CALIBRATION CURVE

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.112	14.39	-.8382	4.059	.5736	.0706	7.222
SDev	2.132	12.78	2.3042	.759	.5171	.0355	3.782
%RSD	100.9	88.83	274.9	18.69	90.14	50.32	52.37

#1	-.3370	-.2310	.7163	3.367	-.0227	.0669	3.204
#2	3.128	23.44	-3.485	3.940	.8454	.1078	10.71
#3	3.546	19.95	.2544	4.870	.8981	.0371	7.750

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3309	1.219	1.538	-1.648	5.530	-28.62	11.15
SDev	.1744	1.169	1.077	1.389	2.217	10.36	9.91
%RSD	52.71	95.88	70.05	84.31	40.09	36.19	88.87

#1	.1594	-.1205	.2950	-.0439	3.360	-16.98	-.2632
#2	.5081	1.746	2.116	-2.473	7.791	-36.81	16.15
#3	.3253	2.032	2.202	-2.426	5.440	-32.08	17.57

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3904	1.648	.2482	.0351	2.683	3.733	-1.256
SDev	.3104	1.112	4.302	1.057	3.967	1.310	1.468
%RSD	79.50	67.48	1734.	3014.	147.9	35.09	116.9

#1	.0368	.6463	1.758	1.135	.7261	2.508	-1.704
#2	.6179	1.454	-4.605	-.0551	7.248	5.114	-2.448
#3	.5165	2.845	3.592	-.9744	.0748	3.578	.3836

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.191	.8235	2.815	5.325	1.139	.1535	-.4187
SDev	.640	.7121	3.838	24.41	1.643	.2820	4.3275
%RSD	29.20	86.47	136.4	458.5	144.2	183.7	1034.

#1	2.454	.0113	6.012	31.67	-.7530	.3978	3.047
#2	2.657	1.341	3.874	.8334	2.203	.2177	-5.269
#3	1.462	1.119	-1.442	-16.53	1.967	-.1550	.9665

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.894	6.233	.3199	-6.236	8.710	-10.24	3.231
SDev	.856	1.862	.2087	7.832	5.701	17.22	9.672
%RSD	29.57	29.88	65.24	125.6	65.45	168.1	299.3
#1	1.920	4.117	.0822	2.754	2.385	9.453	-7.274
#2	3.239	6.959	.4729	-11.59	13.45	-17.77	5.201
#3	3.524	7.622	.4046	-9.875	10.29	-22.42	11.77
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: PQL

Operator: HSC

Run Time: 04/25/07 09:48:36

Comment: CALIBRATION CURVE

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.362	206.0	14.64	50.21	4.947	4.789	101.3
SDev	.067	2.7	5.27	.88	.182	.087	.7
%RSD	1.257	1.304	36.04	1.752	3.683	1.818	.6485

#1	5.358	205.8	12.61	49.24	4.745	4.766	100.7
#2	5.297	203.5	Q20.62	50.96	4.997	4.885	101.4
#3	5.432	208.8	10.67	50.43	5.099	4.715	102.0

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000	200.0	15.00	50.00	5.000	5.000	100.0
Range	30.00	30.00	30.00	30.00	30.00	30.00	30.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.931	4.695	4.947	Q6.730	101.2	108.2	294.7
SDev	.708	.303	.205	1.828	.4	24.6	1.9
%RSD	14.35	6.449	4.137	27.17	.3530	22.76	.6468

#1	4.547	4.403	4.919	Q5.619	101.4	Q99.76	295.6
#2	5.748	4.674	4.758	8.840	101.3	135.9	295.9
#3	4.499	5.008	5.165	Q5.730	100.8	Q88.88	292.5

Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	5.000	5.000	5.000	10.00	100.0	150.0	300.0
Range	30.00	30.00	30.00	30.00	30.00	30.00	30.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.43	9.449	147.6	4.566	8.237	12.60	15.05
SDev	.07	.326	24.6	2.127	14.66	3.41	1.91
%RSD	.6984	3.450	16.64	46.59	178.0	27.02	12.70

#1	10.49	9.692	134.8	Q3.337	Q.1907	Q16.28	14.46
#2	10.35	9.576	175.9	Q7.022	Q25.16	9.554	13.51
#3	10.45	9.078	132.0	Q3.338	Q-.6427	11.98	17.19

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00	10.00	150.0	5.000	10.00	10.00	15.00
Range	30.00	30.00	30.00	30.00	30.00	30.00	30.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.26	5.051	22.28	39.84	4.775	9.935	140.8
SDev	2.85	.088	7.34	108.3	.344	.397	14.0
%RSD	25.34	1.734	32.94	271.9	7.197	3.995	9.936

#1	8.240	5.030	17.39	Q-21.27	4.476	9.753	140.0
#2	Q13.91	4.975	Q30.72	Q164.9	4.699	10.39	155.2
#3	11.64	5.146	18.74	Q-24.12	5.150	9.662	127.2

Value	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Range	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	99.63	212.7	4.973	8.246	14.78	8.904	18.12
SDev	14.45	30.8	.019	16.90	12.46	19.80	12.24
%RSD	14.51	14.48	.3893	205.0	84.34	222.4	67.54
#1	91.55	195.5	4.988	1.088	23.86	-.3072	21.83
#2	116.3	248.3	4.951	27.55	.5694	31.63	4.455
#3	91.03	194.4	4.979	-3.899	19.90	-4.616	28.07
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	100.0		5.000				
Range	30.00		30.00				

Method: TRACE2 Sample Name: ICS-A

Operator: HSC

Run Time: 04/25/07 09:54:31

Comment: CALIBRATION CURVE

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.524	474600.	-3.586	1.935	1.838	.2041	478700.
SDev	.186	1982.	4.471	.532	.204	.0768	1001.
%RSD	12.20	.4176	124.7	27.48	11.12	37.62	.2091

#1	1.319	476300.	1.448	2.144	1.723	.2670	479300.
#2	1.682	475100.	-5.109	1.330	2.074	.2267	479300.
#3	1.570	472400.	-7.096	2.331	1.717	.1185	477500.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	500000.	.0000	.0000	.0000	.0000	500000.
Range	10.00	100000.	30.00	100.0	10.00	10.00	100000.

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.198	.3476	3.342	-13.28	186700.	-12.42	485200.
SDev	.398	.1671	.770	1.05	1721.	12.73	795.
%RSD	33.23	48.08	23.05	7.907	.9218	102.5	.1638

#1	-1.421	.2383	2.614	-12.23	186600.	1.912	485600.
#2	-.7381	.5400	3.264	-14.33	185100.	-22.42	485600.
#3	-1.434	.2645	4.149	-13.29	188600.	-16.74	484300.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	200000.	.0000	500000.
Range	10.00	10.00	10.00	20.00	40000.	300.0	100000.

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.767	-.0172	6.067	-4.359	.1529	6.055	9.492
SDev	.028	1.0254	8.763	.361	2.339	.871	4.577
%RSD	.5855	5975.	144.4	8.282	1530.	14.39	48.21

#1	4.736	.9094	12.13	-3.949	2.445	5.182	9.814
#2	4.775	-1.119	-3.981	-4.500	-2.230	6.057	13.90
#3	4.790	.1580	10.05	-4.628	.2436	6.925	4.763

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	20.00	20.00	300.0	10.00	20.00	20.00	30.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.975	-1.448	4.125	-39.83	-.7080	-7.711	23.80
SDev	1.909	.091	4.060	44.24	.4401	.468	3.35
%RSD	31.95	6.275	98.43	111.1	62.16	6.070	14.09

#1	6.467	-1.353	6.110	-7.872	-.5965	-8.089	20.05
#2	7.590	-1.459	-.5458	-21.30	-.3344	-7.187	26.51
#3	3.868	-1.533	6.812	-90.33	-1.193	-7.855	24.83

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	20.00	10.00	40.00	100.0	10.00	20.00	300.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15.98	34.06	.4138	29.07	-5.435	-11.14	19.79
SDev	4.26	9.10	.0545	2.80	.457	7.69	6.78
%RSD	26.64	26.72	13.18	9.629	8.403	69.01	34.25
#1	20.77	44.30	.3520	26.94	-5.683	-19.43	24.41
#2	14.56	30.98	.4342	28.02	-4.908	-4.241	22.96
#3	12.62	26.90	.4552	32.24	-5.714	-9.750	12.01
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	200.0		10.00				

Method: TRACE2 Sample Name: ICS-AB

Operator: HSC

Run Time: 04/25/07 10:00:25

Comment: CALIBRATION CURVE

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	253.5	478500.	483.1	506.0	516.9	247.8	478300.
SDev	1.6	1888.	5.1	3.1	1.0	.6	1216.
%RSD	.6244	.3945	1.048	.6063	.1896	.2227	.2542

#1	252.9	476300.	486.8	502.5	516.3	247.5	476900.
#2	255.3	479400.	485.2	508.3	516.4	248.4	478700.
#3	252.3	479700.	477.3	507.2	518.1	247.5	479300.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	250.0	500000.	500.0	500.0	500.0	250.0	500000.
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	460.2	459.5	475.7	490.2	188900.	5397.	487900.
SDev	.9	1.3	1.5	2.6	3500.	1.	1619.
%RSD	.2018	.2879	.3150	.5375	1.853	.0213	.3318

#1	459.1	458.1	474.1	491.6	188900.	5396.	486400.
#2	460.6	460.8	476.1	491.8	192500.	5396.	487800.
#3	460.9	459.6	477.0	487.1	185500.	5398.	489600.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	200000.	5000.	500000.
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	483.7	478.6	5074.	445.9	485.0	463.4	2395.
SDev	1.6	2.7	11.	1.4	1.4	.3	4.
%RSD	.3259	.5600	.2158	.3250	.2988	.0552	.1840

#1	482.7	475.6	5083.	444.5	486.1	463.4	2391.
#2	483.0	479.4	5078.	447.4	485.5	463.7	2394.
#3	485.5	480.8	5062.	445.8	483.3	463.2	2400.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	5000.	500.0	500.0	500.0	2500.
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	467.8	486.2	459.8	464.5	482.7	471.3	2468.
SDev	3.0	2.9	3.0	14.7	1.5	2.6	12.
%RSD	.6382	.5906	.6551	3.164	.3073	.5610	.4788

#1	468.5	485.9	459.2	458.8	481.9	470.7	2468.
#2	464.5	489.2	463.0	453.4	481.8	469.0	2456.
#3	470.4	483.5	457.1	481.2	484.4	474.2	2480.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Elem	Si_288	SiO2_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4877.	10410.	499.4	494.8	447.7	2455.	2366.
SDev	12.	26.	.9	6.9	3.8	9.	6.
%RSD	.2529	.2542	.1829	1.401	.8583	.3742	.2723
#1	4870.	10400.	499.2	496.9	446.6	2458.	2358.
#2	4892.	10440.	500.3	487.0	452.0	2444.	2369.
#3	4871.	10400.	498.5	500.3	444.6	2462.	2369.
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	5000.		500.0				
Range	20.00		20.00				

Method: TRACE2 Sample Name: LR1

Operator: HSC

Run Time: 04/25/07 10:06:19

Comment: CALIBRATION CURVE

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.159	473200.	.3449	6.011	1.994	.6126	474000.
SDev	.829	2098.	2.513	1.395	.116	.0207	1047.
%RSD	26.24	.4434	728.8	23.20	5.820	3.386	.2209

#1	4.111	474600.	-2.123	7.621	2.113	.6316	475000.
#2	2.765	474200.	2.901	5.200	1.986	.6157	474200.
#3	2.600	470800.	.2565	5.212	1.881	.5904	472900.

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value		500000.					500000.
Range		10.00					10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8577	1.618	.2951	-11.84	187500.	3.793	483400.
SDev	.3279	.192	.6757	1.26	1905.	1.739	1030.
%RSD	38.23	11.85	228.9	10.68	1.016	45.85	.2131

#1	-.5048	1.648	.6713	-10.45	185600.	4.351	484200.
#2	-.9152	1.414	.6990	-12.93	187400.	1.843	483600.
#3	-1.153	1.794	-.4849	-12.13	189400.	5.185	482200.

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value					200000.		500000.
Range					10.00		10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.036	1.846	Q221200.	-3.609	11.32	3.576	4.622
SDev	.075	.406	1465.	.511	2.14	2.511	2.040
%RSD	1.490	21.97	.6624	14.17	18.88	70.21	44.14

#1	4.974	1.453	Q221900.	-3.019	8.939	6.220	2.356
#2	5.120	1.823	Q222100.	-3.889	11.94	3.286	5.197
#3	5.014	2.263	219500.	-3.919	13.07	1.223	6.312

Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value			200000.				
Range			10.00				

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.479	1.470	1.431	14810.	.6746	-14.59	31.40
SDev	2.819	.104	1.781	64.	.8939	.55	7.07
%RSD	190.5	7.103	124.4	.4336	132.5	3.759	22.51

#1	4.663	1.583	-.1762	14760.	1.312	-14.12	37.78
#2	.4733	1.450	3.345	14800.	1.059	-14.44	32.61
#3	-.6981	1.377	1.124	14880.	-.3472	-15.19	23.80

Value 15000.
 Range 10.00

Elem	Si_288	SiO2_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	42.12	89.85	.9156	30.61	-9.920	-24.26	19.04
SDev	4.15	8.83	.0249	3.50	2.081	2.34	3.75
%RSD	9.850	9.828	2.722	11.43	20.98	9.651	19.69
#1	46.88	99.97	.9438	34.55	-7.923	-22.39	14.71
#2	39.25	83.71	.9062	29.42	-9.760	-26.88	21.21
#3	40.25	85.87	.8967	27.86	-12.08	-23.50	21.19

Errors NOCHECK NOCHECK NOCHECK NOCHECK NOCHECK NOCHECK NOCHECK
 Value
 Range

Method: TRACE2 Sample Name: LR2

Operator: HSC

Run Time: 04/25/07 10:12:16

Comment: CALIBRATION CURVE

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.888	469.5	9604.	5016.	Q13440.	2913.	247.8
SDev	1.044	45.0	22.	11.	20.	4.	44.5
%RSD	55.33	9.575	.2267	.2115	.1482	.1502	17.94

#1	1.560	419.8	9603.	5006.	Q13460.	2918.	197.3
#2	3.057	507.3	9626.	5016.	Q13430.	2910.	280.8
#3	1.046	481.2	9583.	5027.	Q13430.	2910.	265.4

Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value			10000.	5000.	15000.	3000.	
Range			10.00	10.00	10.00	10.00	

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9679.	9960.	24620.	19560.	93.82	27870.	225.2
SDev	35.	9.	15.	52.	18.43	63.	44.6
%RSD	.3649	.0882	.0597	.2649	19.64	.2251	19.78

#1	9701.	9970.	24610.	19620.	73.02	27850.	174.9
#2	9699.	9954.	24610.	19520.	108.1	27940.	259.7
#3	9638.	9956.	24640.	19530.	100.3	27810.	241.0

Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	10000.	10000.	25000.	20000.		30000.	
Range	10.00	10.00	10.00	10.00		10.00	

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9925.	9830.	97.85	9843.	9954.	24040.	9585.
SDev	18.	46.	16.63	34.	14.	28.	26.
%RSD	.1808	.4690	16.99	.3429	.1380	.1152	.2680

#1	9908.	9776.	105.5	9847.	9945.	24070.	9583.
#2	9924.	9854.	109.2	9874.	9947.	24010.	9560.
#3	9943.	9858.	78.77	9807.	9970.	24040.	9611.

Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	10000.	10000.		10000.	10000.	25000.	10000.
Range	10.00	10.00		10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10010.	9885.	9604.	-51.07	9878.	4827.	14850.
SDev	14.	38.	10.	19.71	24.	13.	89.
%RSD	.1405	.3822	.1021	38.59	.2472	.2615	.6025

#1	10010.	9927.	9615.	-44.13	9852.	4815.	14820.
#2	10030.	9872.	9597.	-35.77	9880.	4826.	14950.
#3	10000.	9855.	9600.	-73.31	9901.	4840.	14780.

Value	10000.	10000.	10000.		10000.	5000.	15000.
Range	10.00	10.00	10.00		10.00	10.00	10.00

Elem	Si_288	SiO2_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	46920.	100400.	9714.	24550.	23780.	9906.	9424.
SDev	142.	298.	37.	106.	78.	47.	29.
%RSD	.3017	.2970	.3761	.4301	.3274	.4749	.3118

#1	47020.	100600.	9754.	24450.	23870.	9863.	9444.
#2	46990.	100500.	9707.	24540.	23750.	9899.	9391.
#3	46760.	100000.	9682.	24660.	23730.	9956.	9439.

Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	50000.		10000.				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 10:19:21

Comment: CALIBRATION CURVE

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	500.2	5303.	500.4	512.1	503.0	502.2	5159.
SDev	3.5	56.	1.2	1.2	.5	1.9	48.
%RSD	.7023	1.055	.2389	.2376	.0929	.3736	.9324

#1	500.4	5244.	501.4	513.2	502.8	503.1	5122.
#2	503.6	5309.	499.1	512.4	502.7	503.4	5143.
#3	496.6	5355.	500.6	510.8	503.5	500.1	5213.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	497.0	500.9	504.9	511.1	5049.	5057.	5200.
SDev	4.3	2.0	1.8	2.0	35.	44.	37.
%RSD	.8574	.3956	.3540	.3872	.6925	.8712	.7065

#1	500.1	501.6	506.9	512.9	5032.	5107.	5171.
#2	498.8	502.4	504.6	511.4	5026.	5040.	5187.
#3	492.1	498.6	503.3	509.0	5089.	5024.	5241.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	505.9	505.4	10250.	500.0	498.6	504.6	507.1
SDev	.7	2.6	154.	3.9	.4	1.7	1.7
%RSD	.1417	.5071	1.499	.7723	.0863	.3348	.3344

#1	506.3	507.6	10410.	502.8	498.9	504.4	507.4
#2	505.1	502.6	10240.	501.6	498.8	506.4	508.7
#3	506.3	506.0	10110.	495.6	498.1	503.1	505.3

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	505.0	502.8	491.3	488.6	505.3	502.9	2497.
SDev	.5	3.1	7.6	33.7	.9	1.5	16.
%RSD	.1076	.6187	1.542	6.893	.1720	.2994	.6555

#1	505.0	503.5	499.5	526.1	506.1	504.2	2511.
#2	504.4	505.5	489.9	478.6	504.4	501.3	2501.
#3	505.5	499.4	484.6	461.0	505.3	503.2	2479.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2547.	5449.	504.9	506.7	503.6	520.2	500.6
SDev	10.	22.	1.4	6.3	4.3	5.3	3.3
%RSD	.4016	.4016	.2802	1.234	.8603	1.022	.6673
#1	2544.	5442.	505.4	513.9	499.7	526.3	497.9
#2	2559.	5473.	506.0	502.8	508.2	517.4	504.4
#3	2539.	5431.	503.3	503.4	502.9	516.9	499.6
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 10:25:17

Comment: CALIBRATION CURVE

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.360	54.22	1.339	8.178	1.615	.4060	54.25
SDev	3.164	52.95	3.808	2.840	.961	.2147	40.92
%RSD	232.6	97.65	284.4	34.73	59.48	52.88	75.44

#1	-1.166	22.36	-1.068	7.061	.9951	.2666	32.24
#2	4.908	115.3	5.729	11.41	2.722	.6532	Q101.5
#3	.3378	24.96	-.6440	6.067	1.129	.2981	29.04

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.151	1.505	3.017	.6150	22.51	-11.59	51.86
SDev	.765	2.303	2.595	4.328	16.90	46.64	48.35
%RSD	66.48	152.9	86.02	703.8	75.08	402.4	93.24

#1	.5918	-.6255	1.008	-3.475	13.80	-61.87	24.83
#2	2.022	3.948	Q5.946	5.147	41.99	30.25	107.7
#3	.8376	1.194	2.095	.1727	11.74	-3.155	23.06

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.089	2.302	38.05	1.217	-1.901	5.301	.5790
SDev	.697	1.388	31.21	.560	6.976	2.354	6.279
%RSD	63.96	60.30	82.04	46.04	366.9	44.40	1084.

#1	.7801	2.626	5.208	.7173	-7.232	7.672	7.777
#2	1.887	3.501	67.33	1.112	5.994	2.965	-2.268
#3	.6006	.7808	41.60	1.823	-4.465	5.266	-3.772

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.676	1.403	4.420	-29.20	1.600	1.781	-1.239
SDev	2.587	1.399	3.408	50.24	2.847	.437	9.143
%RSD	45.58	99.71	77.10	172.0	177.9	24.52	737.6

#1	3.477	.4271	4.794	Q-84.61	-1.054	1.418	-4.552
#2	8.527	3.007	7.624	13.37	4.607	2.266	9.098
#3	5.025	.7766	.8401	-16.37	1.249	1.660	-8.264

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.965	6.409	1.128	-4.986	10.44	-3.758	2.744
SDev	7.181	15.32	.645	4.871	3.36	4.026	10.09
%RSD	242.2	239.1	57.20	97.70	32.18	107.1	367.6
#1	-4.050	-8.527	.8120	-5.464	14.23	-4.327	13.82
#2	10.30	22.09	1.870	-9.600	9.238	-7.468	.3284
#3	2.644	5.665	.7016	.1071	7.842	.5220	-5.915
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: LR1|2|

Operator: HSC

Run Time: 04/25/07 10:35:41

Comment: LR1 SODIUM

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.138	230000.	-.1148	3.865	1.201	.3049	230400.
SDev	.245	1327.	1.9748	.151	.131	.0533	1265.
%RSD	11.47	.5770	1720.	3.915	10.89	17.47	.5491

#1	1.992	230400.	1.631	4.023	1.065	.2857	231200.
#2	2.421	231200.	-2.258	3.850	1.211	.2639	231000.
#3	2.000	228600.	.2821	3.721	1.326	.3652	228900.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.3393	1.469	1.177	-6.775	90640.	-9.717	233800.
SDev	.5588	.565	.374	.262	1045.	7.571	1290.
%RSD	164.7	38.47	31.76	3.866	1.153	77.91	.5515

#1	-.3409	.9098	.8094	-6.479	91760.	-18.41	234600.
#2	-.8973	2.040	1.557	-6.975	89700.	-4.582	234600.
#3	.2202	1.458	1.166	-6.871	90460.	-6.158	232300.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.692	1.456	102300.	-1.762	3.259	6.433	-4.631
SDev	.117	2.912	689.	1.179	6.755	.902	3.608
%RSD	4.350	200.0	.6741	66.88	207.3	14.02	77.92

#1	2.644	.2339	102900.	-.7689	11.06	6.285	-1.707
#2	2.607	4.781	102400.	-3.065	-.7526	7.400	-3.521
#3	2.826	-.6455	101500.	-1.454	-.5288	5.614	-8.663

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.964	1.100	-1.218	6871.	1.150	-6.256	20.99
SDev	1.571	.098	3.974	30.	.353	.383	12.87
%RSD	39.63	8.879	326.4	.4393	30.69	6.127	61.34

#1	5.599	1.208	2.438	6903.	1.230	-6.410	33.01
#2	2.466	1.017	-5.448	6866.	.7643	-5.819	22.55
#3	3.827	1.074	-.6426	6843.	1.457	-6.538	7.405

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16.77	35.80	.2678	14.13	2.588	-19.96	3.025
SDev	2.18	4.52	.0949	2.82	1.743	1.74	4.610
%RSD	12.98	12.64	35.43	19.99	67.33	8.718	152.4

#1	17.91	38.17	.2389	17.20	.8357	-18.13	6.493
#2	14.26	30.58	.1906	13.57	4.321	-20.17	4.788
#3	18.14	38.64	.3737	11.64	2.608	-21.60	-2.207

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 10:47:31

Comment: LR1 SODIUM

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	500.3	5194.	503.6	502.3	499.9	502.0	5111.
SDev	3.3	67.	3.0	4.2	.3	.7	20.
%RSD	.6686	1.299	.5903	.8280	.0669	.1299	.3956

#1	496.6	5129.	505.4	497.6	500.3	501.5	5097.
#2	503.2	5264.	500.2	504.4	499.8	501.7	5134.
#3	501.0	5188.	505.3	505.1	499.7	502.7	5103.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	501.6	504.1	502.6	506.7	5028.	5191.	5173.
SDev	2.9	1.5	1.3	3.9	14.	40.	30.
%RSD	.5752	.2897	.2684	.7782	.2856	.7652	.5720

#1	501.9	502.6	501.1	502.2	5025.	5147.	5144.
#2	498.6	505.5	503.7	508.8	5043.	5223.	5203.
#3	504.3	504.4	503.0	509.2	5015.	5205.	5173.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	502.8	504.8	10390.	503.3	496.2	503.3	508.5
SDev	1.0	1.8	94.	1.7	10.6	7.1	5.3
%RSD	.2070	.3563	.9044	.3423	2.140	1.412	1.036

#1	502.2	502.8	10280.	502.5	494.8	498.7	503.4
#2	504.0	506.1	10440.	502.2	486.3	511.5	513.9
#3	502.3	505.7	10440.	505.3	507.4	499.6	508.1

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	506.1	499.8	495.7	508.8	503.9	503.5	2540.
SDev	3.4	.7	10.6	34.9	2.0	.7	21.
%RSD	.6738	.1349	2.130	6.859	.3943	.1378	.8229

#1	502.2	499.1	491.3	498.5	503.6	503.4	2547.
#2	508.7	500.4	488.1	480.2	506.0	504.2	2517.
#3	507.3	500.0	507.8	547.6	502.1	502.9	2557.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2527.	5406.	499.5	504.2	502.8	518.4	503.5
SDev	24.	51.	.1	9.0	14.3	14.8	14.3
%RSD	.9417	.9367	.0135	1.778	2.844	2.857	2.843
#1	2500.	5348.	499.4	502.7	496.7	523.0	493.5
#2	2537.	5427.	499.5	496.1	519.1	501.8	519.9
#3	2545.	5443.	499.6	513.8	492.6	530.3	497.1
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 10:53:27

Comment: LR1 SODIUM

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.498	110.4	-.0834	5.853	2.509	.7707	Q103.4
SDev	1.592	145.2	9.3718	2.492	3.347	1.080	140.4
%RSD	106.2	131.5	11240.	42.58	133.4	140.1	135.7

#1	1.718	30.32	-9.561	6.949	.7361	.1490	23.33
#2	-.1920	22.86	.1327	3.000	.4209	.1458	21.44
#3	2.969	Q278.1	9.178	7.608	Q6.370	2.017	Q265.6

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.950	2.204	4.474	1.380	44.34	-15.10	103.0
SDev	3.297	2.895	5.801	8.320	58.09	54.13	143.6
%RSD	169.0	131.3	129.7	602.8	131.0	358.4	139.5

#1	-.2517	1.203	1.781	-3.810	11.79	-50.45	20.72
#2	.3618	-.0571	.5086	-3.026	9.817	-42.08	19.36
#3	Q5.741	Q5.467	Q11.13	Q10.98	Q111.4	47.22	268.8

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.883	2.500	86.51	1.715	2.212	3.867	-2.163
SDev	2.579	3.404	79.50	5.329	17.33	1.023	.964
%RSD	137.0	136.2	91.90	310.8	783.7	26.45	44.57

#1	.4516	.5685	33.37	-2.232	Q-11.91	5.029	-1.155
#2	.3363	.5011	48.25	-.4002	-3.016	3.472	-3.076
#3	4.860	6.430	Q177.9	Q7.777	Q21.56	3.101	-2.256

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.992	2.273	6.131	-9.534	2.482	2.421	4.754
SDev	3.682	2.746	12.49	137.90	2.880	1.850	8.908
%RSD	123.1	120.8	203.8	1446.	116.0	76.42	187.4

#1	-.1407	.7678	-4.307	Q-119.6	1.505	1.008	-5.510
#2	2.069	.6082	2.726	Q-54.08	.2183	1.740	9.306
#3	7.047	Q5.442	19.97	Q145.1	Q5.723	4.516	10.47

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.875	16.88	1.836	-5.184	8.386	-9.538	1.519
SDev	31.93	68.18	2.525	21.107	12.02	18.384	10.23
%RSD	405.5	403.9	137.5	407.2	143.3	192.8	673.5
#1	-17.76	-37.82	.4469	-27.05	21.04	-29.37	12.93
#2	-2.264	-4.805	.3120	-3.572	6.988	-6.180	-1.527
#3	43.64	93.27	4.751	15.07	-2.874	6.936	-6.846
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 11:34:47

Comment: 623667||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	499.0	5177.	493.2	493.7	499.4	500.2	5062.
SDev	2.1	19.	1.9	2.5	1.6	1.0	5.
%RSD	.4227	.3586	.3873	.5008	.3120	.2027	.0990

#1	496.6	5186.	495.1	490.8	500.2	499.0	5067.
#2	500.2	5156.	491.3	495.1	500.4	500.6	5063.
#3	500.2	5190.	493.1	495.1	497.6	500.9	5057.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	494.7	496.8	496.9	506.6	4970.	4957.	5056.
SDev	1.1	1.7	.5	1.5	16.	5.	2.
%RSD	.2226	.3337	.1074	.3014	.3286	.1017	.0430

#1	494.0	495.2	497.2	506.7	4976.	4962.	5057.
#2	494.1	498.5	497.2	505.1	4982.	4957.	5058.
#3	495.9	496.7	496.3	508.2	4951.	4951.	5054.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	500.1	495.5	10170.	497.0	490.5	497.3	499.5
SDev	1.1	2.5	32.	1.3	1.2	2.4	1.3
%RSD	.2223	.5004	.3119	.2560	.2371	.4791	.2600

#1	500.7	494.8	10200.	495.7	491.3	500.0	499.1
#2	500.8	498.2	10140.	497.1	491.1	496.0	500.9
#3	498.8	493.4	10180.	498.2	489.2	495.8	498.4

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	492.2	500.7	494.8	483.1	497.5	496.8	2529.
SDev	5.0	1.5	3.6	20.5	1.6	1.9	16.
%RSD	1.023	.3064	.7226	4.245	.3306	.3840	.6322

#1	488.0	499.2	494.4	498.7	496.6	497.7	2518.
#2	497.8	502.3	491.4	459.9	499.4	498.2	2522.
#3	490.7	500.6	498.5	490.6	496.5	494.7	2547.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2534.	5421.	500.4	499.3	496.3	511.4	493.5
SDev	14.	29.	.8	9.7	1.5	4.5	3.1
%RSD	.5340	.5278	.1538	1.937	.2971	.8873	.6190
#1	2541.	5435.	500.8	510.3	494.9	516.5	490.4
#2	2519.	5388.	501.0	492.2	497.8	509.7	496.5
#3	2543.	5439.	499.6	495.3	496.1	507.9	493.6
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 11:40:42

Comment: 623667||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7264	-1.133	.4586	1.545	.0834	-.0128	3.236
SDev	2.4972	13.554	4.592	1.917	.3352	.0828	2.381
%RSD	343.8	1196.	1001.	124.1	402.1	644.2	73.58

#1	2.092	14.37	.9616	3.729	.4418	.0685	5.948
#2	-2.662	-10.73	-4.364	.7620	-.2224	-.0101	1.487
#3	-1.610	-7.040	4.778	.1431	.0306	-.0969	2.274

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2147	.0011	-.1137	-5.353	8.311	-66.94	-4.056
SDev	.4699	1.657	1.7771	2.521	2.583	33.59	10.217
%RSD	218.9	156400.	1563.	47.09	31.08	50.19	251.9

#1	-.1064	1.705	1.751	-3.211	11.29	-30.73	7.731
#2	-.7292	-1.604	-1.788	-4.717	6.645	-73.00	-10.37
#3	.1916	-.0987	-.3041	-8.131	7.001	-97.09	-9.526

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3978	-.3531	-32.13	-.2982	-3.094	2.543	-1.860
SDev	.3564	1.9940	.38	1.1070	14.825	1.540	1.631
%RSD	89.60	564.8	1.194	371.3	479.1	60.57	87.65

#1	.8068	1.863	-32.43	-.3248	-5.729	1.218	-1.474
#2	.2326	-.9210	-31.69	-1.392	Q-16.43	4.233	-3.649
#3	.1539	-2.002	-32.26	.8219	Q12.87	2.179	-.4576

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.809	.0679	-2.584	-48.38	-.9440	.0937	1.173
SDev	2.234	.7018	8.100	92.07	1.9940	.3385	11.10
%RSD	123.5	1034.	313.5	190.3	211.2	361.4	946.3

#1	-.6042	.8574	-4.357	-14.91	1.134	.0473	12.34
#2	-4.387	-.4847	-9.651	Q-152.5	-2.842	-.2193	1.019
#3	-.4355	-.1691	6.256	22.27	-1.124	.4530	-9.847

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.288	6.992	.0834	-1.632	4.628	-5.122	-.2319
SDev	8.868	18.91	.1545	11.278	6.398	13.129	4.9853
%RSD	269.7	270.5	185.4	691.1	138.3	256.3	2149.
#1	7.818	16.74	.2556	-8.761	6.200	-12.57	4.066
#2	-6.931	-14.81	-.0431	-7.505	10.09	-12.83	.9354
#3	8.975	19.05	.0375	11.37	-2.410	10.04	-5.697
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 12:22:05

Comment: 623667||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	501.9	5207.	502.5	490.8	497.6	501.8	5085.
SDev	2.9	12.	.6	1.8	.6	.9	7.
%RSD	.5749	.2265	.1170	.3596	.1204	.1859	.1413

#1	504.9	5218.	502.0	489.5	497.0	502.8	5081.
#2	499.1	5195.	503.2	490.1	498.2	501.0	5093.
#3	501.7	5206.	502.4	492.8	497.7	501.5	5081.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	500.4	501.6	500.4	507.4	4927.	5121.	5099.
SDev	1.7	.2	.2	1.4	37.	8.	12.
%RSD	.3432	.0457	.0333	.2756	.7500	.1480	.2422

#1	502.3	501.7	500.3	509.0	4886.	5126.	5088.
#2	498.9	501.3	500.4	506.3	4959.	5124.	5112.
#3	500.0	501.7	500.6	506.8	4935.	5112.	5098.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498.5	495.0	10500.	502.5	493.8	497.1	497.6
SDev	1.6	3.9	62.	1.9	1.9	2.3	1.7
%RSD	.3128	.7958	.5861	.3852	.3818	.4670	.3404

#1	496.9	491.0	10570.	504.8	495.6	496.8	496.4
#2	500.0	498.8	10460.	501.5	491.8	495.0	499.5
#3	498.7	495.2	10460.	501.4	493.9	499.6	496.8

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	493.6	504.7	490.0	473.7	496.4	497.3	2524.
SDev	3.8	2.4	2.2	19.6	1.1	2.3	16.
%RSD	.7678	.4740	.4462	4.131	.2136	.4619	.6397

#1	489.3	507.4	491.6	487.4	495.2	494.7	2517.
#2	496.2	503.0	487.5	482.3	497.3	498.7	2542.
#3	495.3	503.7	490.8	451.3	496.6	498.6	2512.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2545.	5443.	501.7	499.6	495.9	509.5	491.6
SDev	11.	23.	1.9	1.6	2.8	5.2	4.1
%RSD	.4253	.4191	.3760	.3220	.5614	1.013	.8302
#1	2558.	5470.	503.9	498.6	495.9	515.1	487.1
#2	2538.	5429.	500.9	498.7	493.1	508.4	495.1
#3	2539.	5431.	500.4	501.4	498.6	504.9	492.7
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 12:28:00

Comment: 623667||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.684	11.91	.5234	4.816	.4369	.2077	4.610
SDev	1.000	2.45	1.177	.984	.0974	.0483	.251
%RSD	59.37	20.54	224.9	20.44	22.29	23.24	5.451

#1	1.291	9.091	-.0308	5.733	.4700	.2524	4.475
#2	.9406	13.48	1.875	4.938	.3273	.2141	4.454
#3	2.821	13.16	-.2742	3.776	.5135	.1565	4.899

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3845	1.142	1.188	-.4390	7.573	-6.962	6.507
SDev	.1103	.669	.455	.2430	.531	5.816	3.631
%RSD	28.69	58.54	38.29	55.34	7.009	83.53	55.80

#1	.2573	.7888	1.237	-.5137	8.186	-5.882	2.797
#2	.4540	.7244	.7110	-.1675	7.260	-1.763	6.671
#3	.4421	1.913	1.617	-.6359	7.273	-13.24	10.05

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.5763	1.155	-35.43	1.040	2.468	2.599	-1.157
SDev	.0561	.540	1.73	.960	5.879	2.894	2.540
%RSD	9.739	46.72	4.884	92.34	238.2	111.3	219.5

#1	.5575	1.766	-37.32	2.149	4.466	-.4146	-4.090
#2	.6394	.7428	-33.93	.4784	7.089	5.356	.3619
#3	.5319	.9568	-35.05	.4929	-4.149	2.857	.2560

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.281	.8171	1.726	-2.722	1.207	.4581	10.70
SDev	.794	.1739	6.304	16.005	.180	.2094	6.74
%RSD	34.83	21.28	365.1	588.0	14.93	45.72	62.96

#1	2.965	.6255	6.053	-1.460	.9987	.6648	5.970
#2	1.410	.8610	4.633	12.61	1.314	.2461	7.722
#3	2.467	.9649	-5.506	-19.32	1.308	.4632	18.42

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.381	13.64	.2981	-4.668	6.227	-8.542	2.529
SDev	4.492	9.59	.0069	2.386	4.356	.715	3.747
%RSD	70.39	70.31	2.300	51.12	69.95	8.374	148.1
#1	11.57	24.72	.3035	-3.792	1.272	-8.706	-1.786
#2	3.853	8.241	.3005	-2.843	9.450	-7.759	4.416
#3	3.723	7.971	.2904	-7.368	7.961	-9.161	4.957
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 13:35:18

Comment: 628348||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.8	5195.	505.3	495.8	499.0	506.2	5112.
SDev	1.5	22.	1.9	1.2	2.6	.2	18.
%RSD	.2984	.4192	.3829	.2501	.5201	.0368	.3424

#1	504.3	5210.	503.2	496.7	501.9	506.4	5132.
#2	503.7	5170.	505.8	494.4	498.3	506.0	5099.
#3	506.5	5206.	506.9	496.3	496.9	506.2	5105.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.8	507.6	504.2	509.4	4943.	5144.	5132.
SDev	1.7	1.8	1.7	1.4	32.	39.	17.
%RSD	.3305	.3548	.3334	.2720	.6457	.7519	.3381

#1	504.5	509.6	506.1	509.9	4978.	5188.	5152.
#2	503.4	506.1	503.2	507.8	4935.	5114.	5121.
#3	506.7	507.2	503.2	510.4	4916.	5132.	5122.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	499.7	497.3	10470.	506.8	493.8	507.1	503.7
SDev	2.0	2.4	129.	1.0	11.4	2.9	.9
%RSD	.4048	.4874	1.234	.1944	2.308	.5632	.1709

#1	502.0	499.6	10610.	507.9	506.9	509.9	504.7
#2	499.1	497.5	10360.	505.9	486.1	504.2	503.0
#3	498.1	494.7	10440.	506.6	488.5	507.3	503.5

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	497.7	508.8	491.5	475.5	499.0	498.7	2570.
SDev	1.4	.3	8.6	44.1	2.1	2.4	17.
%RSD	.2723	.0644	1.748	9.284	.4225	.4773	.6608

#1	499.2	508.6	494.0	526.1	501.4	501.4	2552.
#2	497.3	508.6	481.9	Q444.9	498.1	497.9	2586.
#3	496.6	509.2	498.5	455.5	497.5	496.8	2571.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2565.	5486.	504.0	506.4	507.5	514.4	498.4
SDev	10.	20.	1.3	2.7	3.0	5.9	1.8
%RSD	.3724	.3735	.2628	.5426	.5844	1.141	.3588
#1	2571.	5499.	505.5	509.4	510.2	521.2	496.4
#2	2554.	5463.	503.2	504.0	504.3	511.2	498.8
#3	2570.	5497.	503.2	505.8	508.1	510.8	499.9
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 13:41:13

Comment: 628348||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.9846	9.468	-2.114	4.513	.2340	.1440	6.326
SDev	.3678	.810	2.241	1.166	.0536	.0374	1.043
%RSD	37.36	8.555	106.0	25.84	22.91	25.96	16.49

#1	1.408	10.21	-1.417	5.790	.2577	.1871	7.319
#2	.7966	8.603	-.3042	4.243	.1726	.1220	6.418
#3	.7487	9.595	-4.620	3.505	.2716	.1228	5.240

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3708	.6538	.9960	-1.109	6.156	-10.75	1.299
SDev	.2352	.5598	.8450	.187	1.609	2.22	2.575
%RSD	63.43	85.63	84.84	16.86	26.13	20.64	198.3

#1	.6149	1.206	.5086	-1.322	7.776	-8.193	3.554
#2	.1457	.0871	.5077	-1.037	6.134	-11.96	1.850
#3	.3516	.6678	1.972	-.9697	4.559	-12.11	-1.507

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3064	.1623	-26.30	.8122	1.964	2.090	-2.763
SDev	.0940	1.649	.39	.5580	3.601	1.704	1.849
%RSD	30.67	1016.	1.501	68.70	183.4	81.53	66.93

#1	.3616	-.3340	-26.39	.9188	5.965	3.658	-1.052
#2	.3598	2.003	-25.87	1.309	-1.017	.2774	-2.511
#3	.1979	-1.182	-26.64	.2086	.9427	2.333	-4.725

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.182	.8513	4.139	-5.384	.0506	1.293	2.567
SDev	1.039	.7546	6.339	11.935	.3349	.179	4.503
%RSD	87.87	88.64	153.2	221.7	661.5	13.88	175.4

#1	-1.378	1.723	-1.512	7.037	.2810	1.492	.2489
#2	-2.109	.4082	10.99	-16.77	-.3336	1.143	-.3046
#3	-.0593	.4231	2.934	-6.424	.2045	1.245	7.758

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.79	29.40	.1981	-.0421	3.154	-2.676	-2.807
SDev	2.89	6.16	.0476	.4471	2.376	1.397	2.081
%RSD	20.96	20.96	24.02	1063.	75.34	52.21	74.14
#1	17.02	36.25	.2528	.1109	5.430	-1.499	-.8295
#2	12.94	27.66	.1754	-.5456	.6883	-2.309	-2.612
#3	11.43	24.30	.1662	.3085	3.344	-4.220	-4.978
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 14:18:02

Comment: 627453||6010 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	505.2	5166.	505.6	496.8	500.6	508.0	5119.
SDev	4.1	39.	2.5	1.7	3.1	3.9	32.
%RSD	.8204	.7534	.4934	.3521	.6288	.7696	.6216

#1	508.9	5207.	506.2	498.5	504.2	512.3	5155.
#2	505.9	5162.	507.8	496.7	498.9	506.9	5096.
#3	500.7	5130.	502.9	495.0	498.6	504.8	5105.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	508.5	508.1	505.0	509.9	4932.	5151.	5132.
SDev	3.1	3.3	3.4	4.5	39.	21.	30.
%RSD	.6146	.6491	.6699	.8911	.7999	.4030	.5777

#1	512.1	511.9	508.8	514.6	4963.	5175.	5163.
#2	507.2	506.2	503.8	509.6	4888.	5135.	5104.
#3	506.3	506.2	502.4	505.6	4945.	5144.	5131.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	500.3	498.3	10470.	508.5	493.7	504.7	505.0
SDev	3.4	2.2	118.	4.0	8.0	1.7	3.2
%RSD	.6869	.4489	1.130	.7874	1.621	.3437	.6346

#1	504.0	498.0	10610.	513.0	499.7	506.6	501.3
#2	497.1	496.3	10400.	505.4	484.6	504.4	506.3
#3	499.9	500.7	10420.	507.1	496.7	503.2	507.3

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	497.0	510.0	496.1	482.5	499.4	499.3	2641.
SDev	4.4	4.9	2.6	23.6	3.1	4.2	20.
%RSD	.8926	.9665	.5174	4.884	.6268	.8448	.7483

#1	499.7	515.1	499.0	479.4	502.9	503.7	2662.
#2	491.9	509.8	494.4	460.6	496.9	495.3	2623.
#3	499.4	505.2	494.8	507.4	498.4	499.1	2639.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2552.	5459.	505.1	505.3	504.5	518.9	498.0
SDev	21.	44.	4.1	2.7	3.7	3.3	5.7
%RSD	.8097	.8018	.8196	.5287	.7340	.6330	1.146
#1	2574.	5505.	509.5	502.4	508.7	521.0	491.4
#2	2550.	5453.	504.6	507.6	502.8	515.1	501.9
#3	2533.	5418.	501.3	505.8	501.9	520.5	500.6
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 14:23:58

Comment: 627453||6010 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.7115	6.645	-1.567	3.136	.3670	.2155	4.717
SDev	.9481	1.811	.805	1.087	.0761	.0312	.481
%RSD	133.2	27.25	51.37	34.67	20.75	14.49	10.20

#1	.3259	8.668	-.6741	3.673	.3659	.2481	4.992
#2	1.792	5.178	-2.237	3.851	.4437	.2125	4.998
#3	.0170	6.087	-1.790	1.885	.2914	.1858	4.162

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2717	.4252	.8742	-1.099	3.475	-7.511	1.714
SDev	.1694	.5164	.1553	.093	.145	2.617	2.462
%RSD	62.37	121.5	17.77	8.437	4.163	34.84	143.6

#1	.4496	.1066	.8358	-.9992	3.587	-6.393	3.534
#2	.2532	1.021	1.045	-1.183	3.528	-5.639	2.696
#3	.1122	.1479	.7417	-1.114	3.312	-10.50	-1.087

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2384	.1879	-21.68	1.091	2.290	2.581	-1.421
SDev	.0812	.6735	1.65	.423	1.697	2.067	4.665
%RSD	34.04	358.5	7.614	38.81	74.09	80.08	328.3

#1	.3196	.8727	-21.35	.9691	.3940	3.011	-.0317
#2	.2385	.1646	-20.22	.7421	2.811	4.399	2.392
#3	.1573	-.4737	-23.47	1.562	3.666	.3329	-6.622

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.030	.3494	1.507	-4.517	.4375	1.641	1.474
SDev	.457	.2169	3.411	23.843	.3098	.493	4.018
%RSD	11.35	62.09	226.4	527.9	70.80	30.04	272.6

#1	3.860	.4708	-1.219	21.53	.7473	1.774	1.796
#2	4.548	.4785	5.332	-9.803	.4376	1.095	-2.695
#3	3.682	.0989	.4068	-25.27	.1277	2.053	5.321

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.734	12.23	.2391	.3410	3.699	-4.111	-.0776
SDev	3.090	6.60	.0366	3.710	4.065	5.890	9.4356
%RSD	53.88	53.95	15.29	1088.	109.9	143.3	12160.
#1	8.677	18.53	.2598	4.121	2.457	-9.683	4.787
#2	2.516	5.368	.2605	-3.295	8.240	-4.703	5.933
#3	6.010	12.79	.1969	.1975	.4005	2.052	-10.95
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 15:05:20

Comment: 627453||6010 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	501.7	5107.	505.9	495.5	494.6	504.7	5081.
SDev	1.4	6.	3.3	3.1	.5	.3	3.
%RSD	.2827	.1272	.6491	.6196	.1057	.0540	.0516

#1	500.6	5102.	503.3	492.1	494.4	504.4	5084.
#2	501.2	5106.	509.6	496.3	494.2	504.6	5082.
#3	503.3	5114.	504.9	498.1	495.2	505.0	5078.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	505.6	505.7	501.8	503.9	4868.	5098.	5104.
SDev	.6	.5	.5	1.0	18.	5.	4.
%RSD	.1166	.0928	.1007	.2037	.3716	.1034	.0829

#1	504.9	505.8	501.3	505.0	4887.	5093.	5108.
#2	505.9	505.2	502.3	502.9	4868.	5104.	5105.
#3	505.9	506.1	501.7	503.7	4850.	5097.	5100.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	495.3	493.1	10360.	505.2	487.2	502.5	498.9
SDev	.8	1.3	35.	2.5	4.2	2.1	3.9
%RSD	.1519	.2724	.3425	.5030	.8699	.4230	.7732

#1	495.8	493.9	10390.	502.7	492.1	500.9	499.8
#2	495.7	491.5	10320.	505.0	484.9	504.9	502.2
#3	494.4	493.8	10370.	507.8	484.7	501.6	494.7

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	494.1	506.7	500.3	484.9	495.2	494.5	2555.
SDev	.9	1.2	5.1	13.2	.1	.5	19.
%RSD	.1847	.2285	1.011	2.723	.0264	.1106	.7473

#1	495.2	505.5	502.2	485.4	495.3	495.0	2577.
#2	493.6	507.1	494.5	471.4	495.4	493.9	2545.
#3	493.5	507.7	504.0	497.8	495.1	494.6	2542.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2528.	5407.	500.8	503.6	501.9	508.7	494.0
SDev	1.	3.	.9	1.8	3.0	4.1	3.8
%RSD	.0576	.0536	.1799	.3607	.5917	.8002	.7762
#1	2528.	5406.	499.8	504.6	499.0	510.6	494.4
#2	2527.	5405.	501.4	504.7	505.0	511.4	497.7
#3	2530.	5411.	501.2	501.5	501.7	504.0	490.0
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 15:11:16

Comment: 627453||6010 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0034	3.532	.0059	4.919	.1779	.3239	5.534
SDev	.9703	5.601	2.477	2.350	.2102	.0475	.792
%RSD	28930.	158.6	41700.	47.77	118.1	14.67	14.31

#1	.6372	6.412	1.213	7.632	.3024	.3609	6.273
#2	.4724	7.108	1.648	3.523	.2960	.3404	5.630
#3	-1.120	-2.923	-2.843	3.603	-.0647	.2703	4.698

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.5783	.0092	.2499	-.5205	4.238	-3.255	-2.224
SDev	.0388	.8407	.5882	1.2329	.100	10.393	7.877
%RSD	6.712	9109.	235.4	236.9	2.350	319.3	354.1

#1	.5491	.6232	.6700	-.6228	4.351	-3.865	3.150
#2	.5636	.3533	.5020	.7604	4.203	7.430	1.444
#3	.6224	-.9489	-.4223	-1.699	4.162	-13.33	-11.27

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3626	.0914	-9.345	.4808	3.104	1.116	-2.103
SDev	.1345	.4942	7.843	.6683	4.180	.641	2.535
%RSD	37.08	541.0	83.93	139.0	134.7	57.42	120.6

#1	.5065	-.1940	-8.115	1.098	4.114	1.281	.4496
#2	.3412	.6620	-2.190	.5741	6.687	1.658	-4.619
#3	.2401	-.1940	-17.73	-.2292	-1.488	.4088	-2.138

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.6596	.3626	3.409	-10.82	.0475	1.657	7.818
SDev	2.408	.2764	2.380	22.06	.6239	.357	6.824
%RSD	365.1	76.24	69.82	203.9	1314.	21.55	87.28

#1	-.1918	.5878	5.567	-20.75	.0476	1.968	15.45
#2	3.378	.4457	3.804	14.46	.6713	1.737	5.684
#3	-1.207	.0541	.8560	-26.17	-.5764	1.267	2.316

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.381	19.99	.2962	.6134	1.367	.5891	-3.446
SDev	1.512	3.24	.0990	4.112	2.298	4.384	4.840
%RSD	16.12	16.21	33.43	670.5	168.1	744.2	140.4
#1	8.512	18.13	.3829	-4.051	3.943	-2.922	2.133
#2	11.13	23.74	.3174	3.719	.6297	-.8136	-6.519
#3	8.504	18.12	.1883	2.172	-.4712	5.503	-5.953
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 16:16:15

Comment: 627522||6010 SOLID

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	492.2	5013.	499.9	486.0	493.1	499.6	5040.
SDev	1.4	12.	.8	1.9	.7	.6	13.
%RSD	.2834	.2342	.1598	.3921	.1354	.1184	.2596

#1	490.9	5027.	500.5	485.0	493.8	499.1	5053.
#2	491.9	5007.	499.0	484.7	493.1	499.4	5040.
#3	493.6	5006.	500.2	488.2	492.5	500.3	5027.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	500.2	502.5	498.1	497.2	4893.	5023.	5047.
SDev	.9	.5	1.2	.3	32.	23.	14.
%RSD	.1812	.0971	.2485	.0572	.6558	.4529	.2713

#1	500.3	503.0	499.5	497.6	4929.	5049.	5062.
#2	499.2	502.0	497.1	497.0	4884.	5007.	5046.
#3	501.0	502.5	497.8	497.2	4867.	5012.	5034.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	494.2	488.4	10220.	496.4	481.2	497.5	491.6
SDev	1.8	2.3	55.	1.2	6.0	.5	1.4
%RSD	.3557	.4741	.5413	.2378	1.240	.0978	.2919

#1	496.0	491.1	10280.	496.8	487.1	497.1	492.9
#2	493.9	487.2	10190.	495.1	475.1	497.4	490.1
#3	492.5	486.9	10180.	497.4	481.4	498.1	491.9

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	485.8	501.4	488.5	479.3	492.1	490.4	2613.
SDev	1.7	1.8	2.8	4.9	2.1	1.4	17.
%RSD	.3583	.3551	.5729	1.028	.4176	.2807	.6635

#1	485.6	499.7	486.4	482.3	494.2	492.0	2626.
#2	487.6	501.3	491.7	481.9	492.1	489.6	2593.
#3	484.2	503.2	487.4	473.6	490.1	489.6	2620.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2311.	4943.	498.4	500.9	495.9	506.5	484.2
SDev	1.	3.	1.1	2.2	.9	2.3	3.3
%RSD	.0617	.0682	.2162	.4390	.1786	.4448	.6737
#1	2312.	4947.	497.3	498.4	496.5	504.2	487.3
#2	2310.	4942.	498.4	502.6	494.8	508.7	480.8
#3	2310.	4941.	499.5	501.7	496.3	506.6	484.5
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 16:22:11

Comment: 627522||6010 SOLID

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.646	14.91	1.513	5.108	.5607	.2275	25.84
SDev	.811	5.32	2.292	1.260	.1673	.0180	1.73
%RSD	49.26	35.72	151.4	24.67	29.84	7.917	6.683

#1	.7946	9.609	.7690	5.344	.4145	.2400	27.83
#2	2.409	20.26	4.085	6.233	.7432	.2068	25.02
#3	1.735	14.85	-.3134	3.747	.5245	.2355	24.68

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3755	1.313	1.268	-.8120	13.89	.3606	6.795
SDev	.2840	.608	.794	.3794	1.43	6.662	1.909
%RSD	75.64	46.27	62.61	46.73	10.29	1847.	28.09

#1	.6751	.6707	.3515	-1.186	14.04	-6.822	5.106
#2	.3414	1.878	1.745	-.8217	12.39	6.338	8.866
#3	.1101	1.389	1.708	-.4278	15.24	1.566	6.414

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6505	1.450	-17.23	.6493	4.250	1.745	-2.424
SDev	.0487	1.406	2.36	.5184	2.133	1.183	1.809
%RSD	7.483	96.96	13.70	79.84	50.18	67.80	74.61

#1	.5943	-.0412	-17.75	.9817	6.711	.3877	-.3504
#2	.6771	2.751	-14.65	.9142	2.949	2.290	-3.245
#3	.6801	1.640	-19.28	.0520	3.089	2.558	-3.676

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.294	1.066	1.552	11.58	.8966	1.538	8.711
SDev	1.072	.263	3.330	11.83	.9739	.177	3.042
%RSD	46.73	24.63	214.6	102.1	108.6	11.52	34.92

#1	1.230	.8397	.0521	11.00	-.1720	1.352	8.499
#2	2.277	1.354	5.368	.0605	1.734	1.559	11.85
#3	3.374	1.005	-.7654	23.69	1.127	1.704	5.780

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.868	8.301	.3527	-3.574	4.401	-5.834	-.7218
SDev	3.668	7.873	.0344	.928	2.067	7.722	1.2766
%RSD	94.83	94.84	9.741	25.96	46.97	132.4	176.9
#1	-.2152	-.4605	.3167	-3.084	2.121	2.698	-1.872
#2	6.885	14.78	.3851	-2.993	4.928	-7.854	-.9447
#3	4.936	10.58	.3565	-4.644	6.153	-12.34	.6516
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 17:09:27

Comment: 623319||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	492.1	5132.	491.0	481.4	489.2	495.6	5023.
SDev	1.8	9.	2.4	3.2	.4	1.1	11.
%RSD	.3733	.1839	.4792	.6739	.0732	.2310	.2274

#1	494.1	5122.	493.4	478.7	489.6	496.5	5010.
#2	490.5	5133.	488.7	480.5	489.2	494.3	5033.
#3	491.7	5140.	490.8	485.0	488.9	496.0	5025.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	494.8	497.8	496.2	498.3	4872.	5031.	5060.
SDev	2.0	.2	.6	1.5	25.	3.	10.
%RSD	.3980	.0458	.1156	.3021	.5181	.0669	.1951

#1	496.3	497.8	495.5	499.8	4850.	5031.	5054.
#2	492.6	497.6	496.6	496.8	4900.	5028.	5071.
#3	495.6	498.1	496.5	498.3	4867.	5035.	5054.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	492.0	486.9	10470.	495.3	479.7	493.5	492.0
SDev	1.0	1.6	26.	1.6	2.0	.5	2.2
%RSD	.1996	.3256	.2485	.3204	.4186	.1047	.4461

#1	491.2	486.3	10500.	494.6	481.7	493.9	490.6
#2	493.1	488.7	10440.	494.2	477.7	493.6	494.5
#3	491.9	485.8	10470.	497.1	479.6	492.9	490.8

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	483.3	496.4	487.7	479.2	489.6	488.4	2691.
SDev	2.4	2.7	2.0	12.6	1.2	1.6	18.
%RSD	.5065	.5355	.4163	2.634	.2424	.3355	.6692

#1	480.7	499.2	489.2	466.7	488.3	486.8	2696.
#2	485.6	493.9	488.5	478.8	490.7	490.1	2671.
#3	483.4	495.9	485.4	492.0	489.8	488.3	2707.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2342.	5010.	494.5	494.4	493.0	503.0	486.4
SDev	2.	4.	1.3	.9	.4	3.9	2.0
%RSD	.0697	.0753	.2601	.1831	.0805	.7706	.4075
#1	2343.	5012.	495.4	494.9	493.4	498.9	486.4
#2	2343.	5013.	493.0	495.0	492.9	506.7	488.4
#3	2340.	5006.	495.0	493.4	492.7	503.5	484.4
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 17:15:22

Comment: 623319||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6586	13.54	-3.190	5.145	.5124	.2978	13.17
SDev	.9576	1.04	4.352	1.084	.1154	.0432	1.65
%RSD	145.4	7.682	136.4	21.07	22.53	14.50	12.52

#1	1.120	14.73	-7.335	6.386	.6457	.3324	15.07
#2	-.4424	13.13	-3.578	4.664	.4445	.3115	12.09
#3	1.298	12.77	1.344	4.384	.4471	.2494	12.36

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4107	.9370	1.206	-1.234	13.73	-10.28	5.666
SDev	.1293	.1779	.149	.233	2.02	1.20	5.523
%RSD	31.50	18.98	12.39	18.92	14.68	11.72	97.47

#1	.2930	.9575	1.252	-1.401	15.86	-9.321	9.484
#2	.3898	.7497	1.039	-.9675	13.46	-11.63	-.6665
#3	.5492	1.104	1.328	-1.334	11.86	-9.885	8.181

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5788	.2622	-32.36	.7326	3.670	3.555	-.8411
SDev	.0635	1.698	1.50	.1985	.843	1.630	2.3280
%RSD	10.97	647.5	4.634	27.10	22.99	45.86	276.8

#1	.6484	2.160	-32.94	.9593	2.828	2.303	.9518
#2	.5641	-1.112	-30.65	.5897	4.515	5.398	-3.472
#3	.5240	-.2618	-33.48	.6489	3.666	2.963	-.0029

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.180	.9058	3.699	-2.017	.5678	1.344	9.402
SDev	3.053	.1381	7.663	7.216	.6486	.105	5.946
%RSD	95.98	15.24	207.2	357.8	114.2	7.836	63.24

#1	3.711	1.057	12.17	-8.658	1.295	1.450	8.603
#2	-.1027	.7865	-2.742	-3.054	.0491	1.342	3.896
#3	5.933	.8737	1.665	5.662	.3593	1.239	15.71

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.223	19.66	.3743	-1.610	6.134	-8.396	2.931
SDev	2.801	6.04	.0647	1.971	2.776	4.312	3.262
%RSD	30.37	30.70	17.28	122.4	45.26	51.36	111.3
#1	12.30	26.29	.4484	-3.048	4.975	-10.41	6.626
#2	6.812	14.47	.3289	-2.420	9.301	-11.33	.4513
#3	8.560	18.23	.3457	.6360	4.124	-3.445	1.716
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/25/07 18:08:34

Comment: 623319||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498.2	5122.	499.6	487.7	499.1	501.9	5095.
SDev	2.6	7.	2.1	2.4	.4	.9	6.
%RSD	.5205	.1396	.4169	.5015	.0829	.1762	.1187

#1	498.3	5119.	497.2	485.0	499.4	502.2	5096.
#2	500.8	5130.	501.0	489.6	498.6	502.7	5088.
#3	495.6	5117.	500.6	488.6	499.2	501.0	5100.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	501.0	506.1	502.0	504.1	4951.	5086.	5092.
SDev	1.8	.9	.7	1.5	26.	10.	4.
%RSD	.3579	.1876	.1458	.2917	.5161	.1888	.0725

#1	502.4	506.8	501.7	503.6	4944.	5094.	5090.
#2	501.6	506.5	502.9	505.8	4929.	5088.	5089.
#3	498.9	505.1	501.5	503.0	4979.	5075.	5096.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	499.7	497.7	10500.	500.4	488.8	500.7	498.1
SDev	1.0	3.1	72.	1.6	2.5	2.9	3.0
%RSD	.1921	.6145	.6855	.3149	.5189	.5760	.5993

#1	499.8	494.5	10550.	499.5	485.9	502.5	496.1
#2	498.7	498.0	10520.	502.3	489.9	497.4	496.6
#3	500.6	500.6	10420.	499.6	490.6	502.2	501.5

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	490.6	504.5	493.2	493.7	498.0	496.4	2730.
SDev	2.7	2.4	1.3	29.0	.3	2.8	31.
%RSD	.5411	.4664	.2619	5.872	.0665	.5660	1.146

#1	487.9	504.4	491.9	526.7	498.2	497.0	2744.
#2	493.2	506.8	494.5	481.7	497.7	493.4	Q2753.
#3	490.7	502.1	493.2	472.6	498.3	498.9	2695.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2448.	5237.	501.5	502.1	500.0	506.3	494.0
SDev	11.	23.	1.0	3.6	4.6	1.0	4.2
%RSD	.4496	.4457	.1996	.7179	.9223	.2040	.8578
#1	2457.	5256.	501.6	505.7	501.0	505.1	491.7
#2	2451.	5244.	502.4	502.1	495.0	507.0	491.4
#3	2436.	5211.	500.4	498.5	504.1	506.8	498.9
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/25/07 18:14:29

Comment: 623319||6010 SOIL

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.123	11.02	.5790	3.550	.5168	.2721	12.89
SDev	.102	3.64	2.062	1.715	.0767	.0371	1.07
%RSD	9.125	33.01	356.2	48.31	14.84	13.63	8.265

#1	1.236	15.09	2.921	5.211	.5852	.3135	13.71
#2	1.037	9.892	-.2167	3.653	.5315	.2605	13.27
#3	1.094	8.082	-.9671	1.785	.4338	.2421	11.69

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3477	.8951	.9294	-.1839	13.09	-6.182	5.957
SDev	.0531	.3801	.0381	.8279	1.64	5.166	2.081
%RSD	15.26	42.47	4.100	450.3	12.51	83.57	34.94

#1	.3012	1.334	.9143	.6283	14.68	-1.931	6.934
#2	.4055	.6860	.9011	-1.027	13.17	-11.93	3.566
#3	.3363	.6653	.9727	-.1532	11.40	-4.682	7.369

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.7710	1.636	-27.26	.3840	1.200	2.478	-.1904
SDev	.0532	1.095	5.15	.3826	5.097	2.573	5.0329
%RSD	6.895	66.94	18.87	99.64	424.6	103.8	2643.

#1	.8314	2.157	-22.17	.4789	.2505	5.033	3.541
#2	.7310	.3777	-32.46	-.0371	-3.355	2.515	1.803
#3	.7508	2.374	-27.16	.7102	6.705	-.1125	-5.915

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2353	.7683	1.773	-13.45	.6977	1.469	6.699
SDev	1.242	.0574	1.867	14.77	.3510	.306	9.697
%RSD	528.0	7.470	105.3	109.8	50.31	20.83	144.8

#1	1.411	.8344	-.3709	-14.11	1.061	1.801	-3.628
#2	-1.064	.7312	2.653	1.632	.3599	1.197	8.114
#3	.3588	.7392	3.038	-27.88	.6727	1.410	15.61

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.74	25.08	.3569	-1.725	4.577	-6.470	2.945
SDev	6.53	13.93	.0468	2.104	4.897	3.185	7.270
%RSD	55.62	55.53	13.12	122.0	107.0	49.22	246.9
#1	19.23	41.06	.4011	-3.588	9.337	-3.110	6.861
#2	8.760	18.68	.3619	-2.144	4.840	-9.444	7.417
#3	7.231	15.50	.3078	.5566	-.4465	-6.857	-5.444
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV2

Operator: HSC

Run Time: 04/25/07 18:55:52

Comment: 626721||6010 GW

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	493.9	5076.	496.7	488.3	499.8	501.3	5087.
SDev	2.2	12.	3.6	2.0	.9	.9	11.
%RSD	.4538	.2393	.7315	.4058	.1807	.1859	.2214

#1	495.7	5087.	495.6	486.1	500.8	502.0	5099.
#2	494.6	5079.	500.7	489.2	499.1	501.7	5077.
#3	491.4	5063.	493.7	489.7	499.4	500.3	5084.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498.2	504.9	502.3	502.8	4943.	5036.	5079.
SDev	2.2	1.5	.7	1.4	24.	34.	16.
%RSD	.4467	.2941	.1488	.2687	.4924	.6667	.3115

#1	499.2	505.6	503.1	504.4	4946.	5074.	5095.
#2	499.7	505.9	502.0	502.2	4917.	5022.	5063.
#3	495.6	503.2	501.7	501.9	4966.	5011.	5079.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498.8	496.0	10440.	497.7	484.9	496.6	497.9
SDev	1.3	1.7	86.	2.3	4.7	4.0	5.4
%RSD	.2553	.3400	.8232	.4676	.9668	.7982	1.080

#1	499.7	496.5	10530.	499.7	479.4	500.6	501.7
#2	497.4	494.2	10410.	498.3	487.7	492.7	491.8
#3	499.4	497.5	10370.	495.2	487.4	496.4	500.4

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	485.7	498.4	494.5	480.4	499.2	498.1	2707.
SDev	.9	2.1	3.7	19.6	1.2	1.0	11.
%RSD	.1806	.4171	.7538	4.073	.2451	.2062	.4065

#1	486.4	499.2	498.3	503.0	500.6	499.3	2719.
#2	484.7	500.0	490.8	469.7	498.1	497.3	2697.
#3	485.9	496.1	494.4	468.5	499.1	497.8	2706.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2321.	4966.	501.4	502.3	493.7	510.1	491.9
SDev	9.	18.	1.1	5.3	3.3	2.9	7.9
%RSD	.3741	.3688	.2254	1.058	.6667	.5610	1.599

#1	2331.	4987.	501.6	507.8	497.1	513.1	496.0
#2	2319.	4961.	502.4	497.2	490.5	509.7	482.8
#3	2314.	4951.	500.1	501.9	493.6	507.4	496.9

Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB2

Operator: HSC

Run Time: 04/25/07 19:01:48

Comment: 626721||6010 GW

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.400	13.88	2.007	4.894	.3566	.1477	8.374
SDev	.365	12.61	1.800	1.513	.1687	.0691	1.532
%RSD	26.07	90.84	89.69	30.92	47.31	46.79	18.30

#1	1.820	9.937	3.685	6.600	.5515	.1393	8.345
#2	1.220	3.714	2.231	3.715	.2591	.0831	6.856
#3	1.160	27.99	.1054	4.366	.2594	.2206	9.921

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3934	.6224	1.018	-1.034	4.175	-12.19	3.737
SDev	.2283	.3579	.333	.299	3.056	5.63	1.697
%RSD	58.04	57.50	32.67	28.94	73.19	46.17	45.42

#1	.1432	1.009	1.401	-.7795	2.726	-8.626	5.257
#2	.5905	.3024	.8370	-1.364	2.114	-18.67	1.905
#3	.4464	.5559	.8148	-.9598	7.686	-9.260	4.050

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3087	2.241	-43.95	.2251	3.899	1.976	-2.260
SDev	.1454	1.189	17.88	.9001	2.471	1.962	3.748
%RSD	47.10	53.06	40.69	399.9	63.38	99.34	165.8

#1	.3182	1.919	-64.19	1.187	6.150	3.675	.1470
#2	.1587	3.558	-37.36	.0840	1.254	2.424	-.3498
#3	.4491	1.246	-30.30	-.5961	4.294	-.1724	-6.579

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.648	.6618	4.224	-3.385	.5292	.1240	11.52
SDev	1.421	.1630	3.136	22.088	.4892	.1560	1.25
%RSD	53.65	24.63	74.23	652.4	92.46	125.9	10.89

#1	3.992	.6114	3.250	16.82	.8645	.2684	11.55
#2	1.161	.5299	7.732	-.0133	-.0322	.1451	10.25
#3	2.792	.8440	1.691	-26.97	.7552	-.0416	12.76

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.44	24.47	.2437	-2.058	3.989	-5.463	-.6616
SDev	3.63	7.71	.0707	1.161	2.367	3.282	4.1459
%RSD	31.77	31.52	29.02	56.42	59.34	60.09	626.6
#1	9.090	19.45	.2590	-.9566	5.987	-2.326	1.382
#2	9.603	20.61	.1666	-1.946	4.606	-5.188	2.066
#3	15.63	33.35	.3056	-3.271	1.375	-8.874	-5.432
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV2

Operator: HSC

Run Time: 04/25/07 19:37:17

Comment: 626721||6010 GW

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	493.0	5063.	493.9	486.2	497.4	499.0	5067.
SDev	2.1	9.	2.6	2.3	.1	.6	6.
%RSD	.4260	.1851	.5250	.4709	.0168	.1292	.1213

#1	490.6	5053.	493.2	484.9	497.3	498.3	5073.
#2	493.6	5064.	491.7	484.9	497.4	499.3	5067.
#3	494.6	5072.	496.8	488.9	497.5	499.5	5061.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	494.8	502.5	500.5	501.1	4923.	5034.	5070.
SDev	.7	.5	.4	1.8	16.	27.	12.
%RSD	.1401	.0945	.0782	.3553	.3222	.5358	.2339

#1	494.3	502.0	500.4	499.2	4934.	5046.	5079.
#2	494.6	502.9	500.9	501.1	4931.	5052.	5073.
#3	495.6	502.6	500.1	502.8	4905.	5003.	5056.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	496.8	495.8	10380.	494.5	482.7	496.3	493.0
SDev	.6	2.0	34.	1.8	1.6	2.0	5.6
%RSD	.1222	.3968	.3306	.3641	.3353	.3994	1.128

#1	497.2	495.3	10420.	492.5	481.0	497.1	497.6
#2	497.1	498.0	10380.	495.6	482.8	497.8	486.8
#3	496.1	494.2	10350.	495.6	484.3	494.1	494.6

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	488.2	495.2	494.6	485.6	497.8	498.2	2643.
SDev	1.2	1.9	5.1	8.5	.4	1.3	14.
%RSD	.2464	.3749	1.035	1.753	.0883	.2657	.5190

#1	487.3	493.2	488.9	488.0	498.1	499.6	2659.
#2	489.6	495.7	498.7	492.7	498.1	498.2	2638.
#3	487.7	496.8	496.2	476.1	497.3	496.9	2633.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2313.	4949.	499.3	496.5	496.2	506.2	486.4
SDev	12.	25.	2.0	5.5	2.3	2.2	7.3
%RSD	.5011	.4990	.4052	1.115	.4576	.4297	1.491
#1	2302.	4925.	497.6	502.4	494.4	508.1	492.4
#2	2312.	4946.	498.8	495.9	498.7	503.8	478.4
#3	2325.	4974.	501.5	491.3	495.4	506.6	488.6
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB2

Operator: HSC

Run Time: 04/25/07 19:43:14

Comment: 626721||6010 GW

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.675	7.219	-.6377	3.375	.4015	.1803	8.551
SDev	.236	1.352	1.7553	1.468	.0219	.0539	.578
%RSD	14.11	18.73	275.3	43.51	5.445	29.87	6.758

#1	1.743	8.218	.9140	3.782	.3807	.2344	8.945
#2	1.870	7.758	-2.543	4.598	.3995	.1799	8.820
#3	1.412	5.680	-.2841	1.746	.4243	.1267	7.887

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1369	.8113	.8369	-.6941	2.981	-9.452	3.298
SDev	.1586	.7439	.1894	.2227	.494	3.143	.657
%RSD	115.9	91.70	22.63	32.09	16.58	33.25	19.91

#1	-.0074	1.610	1.055	-.5300	3.252	-5.906	2.728
#2	-.3138	.6863	.7108	-.9476	3.282	-10.56	3.151
#3	-.0895	.1378	.7452	-.6047	2.411	-11.89	4.016

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3290	1.190	-19.57	.0230	6.293	1.971	-2.457
SDev	.0774	1.017	3.40	.6725	5.345	.246	2.231
%RSD	23.51	85.47	17.39	2918.	84.93	12.47	90.81

#1	.3631	1.379	-15.70	-.4393	.9571	1.939	-1.116
#2	.3835	.0918	-20.87	-.2860	6.275	2.231	-1.223
#3	.2405	2.100	-22.12	.7945	Q11.65	1.742	-5.033

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.497	.5664	4.889	-2.390	.7255	.0449	.1021
SDev	.417	.0558	2.163	12.492	.2246	.1874	6.773
%RSD	16.70	9.848	44.23	522.7	30.95	417.6	6634.

#1	2.709	.5718	3.279	9.800	.5952	-.0123	-3.909
#2	2.017	.5081	4.042	-15.16	.9848	.2542	7.922
#3	2.766	.6193	7.347	-1.806	.5965	-.1073	-3.707

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	SiO2_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.265	7.004	.2813	-3.174	4.539	-9.733	1.175
SDev	5.984	12.74	.0396	.977	.763	3.167	1.931
%RSD	183.3	181.9	14.09	30.79	16.80	32.54	164.3
#1	9.355	19.99	.3148	-2.186	3.998	-6.891	1.767
#2	3.047	6.497	.2915	-4.141	5.411	-9.161	2.740
#3	-2.608	-5.474	.2375	-3.195	4.207	-13.15	-.9825
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV2

Operator: HSC

Run Time: 04/25/07 20:42:21

Comment: 623661||200.7 GW

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	493.1	Q5522.	493.0	493.5	502.3	498.8	5459.
SDev	1.6	163.	5.5	.7	.5	.2	162.
%RSD	.3152	2.952	1.113	.1475	.1069	.0420	2.973

#1	494.4	5395.	486.8	492.7	502.1	498.5	5313.
#2	491.4	5465.	497.3	494.0	502.9	499.0	5429.
#3	493.5	Q5706.	494.9	493.8	501.8	498.8	Q5633.

Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	493.9	501.4	502.5	501.3	5204.	5094.	5492.
SDev	1.9	.5	1.0	.9	69.	7.	161.
%RSD	.3892	.0970	.1975	.1738	1.330	.1357	2.929

#1	493.6	500.9	501.4	502.3	5135.	5100.	5356.
#2	492.2	501.9	503.0	500.5	5205.	5087.	5450.
#3	496.0	501.5	503.1	501.2	5273.	5094.	Q5669.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	504.4	504.0	10430.	496.0	491.5	498.8	501.2
SDev	1.3	2.5	68.	2.2	2.4	3.0	.7
%RSD	.2586	.4910	.6518	.4354	.4946	.5981	.1384

#1	503.1	501.5	10500.	498.0	491.0	496.0	500.8
#2	505.7	506.4	10370.	493.7	489.4	502.0	500.9
#3	504.3	504.0	10410.	496.2	494.1	498.6	502.0

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	499.4	495.5	492.7	490.0	505.3	502.9	2646.
SDev	2.4	1.1	1.2	12.5	1.3	1.0	20.
%RSD	.4905	.2312	.2398	2.542	.2512	.1956	.7473

#1	496.6	496.6	493.0	503.8	504.4	501.8	2668.
#2	500.5	494.3	493.7	486.4	506.8	503.7	2631.
#3	501.2	495.6	491.4	479.7	504.7	503.3	2638.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2422.	5181.	500.9	503.7	496.4	508.4	497.7
SDev	7.	15.	.9	1.9	3.8	2.6	.8
%RSD	.2946	.2941	.1865	.3698	.7717	.5055	.1536
#1	2426.	5189.	500.9	503.2	492.4	508.5	496.9
#2	2414.	5164.	499.9	505.7	500.1	505.7	498.5
#3	2427.	5191.	501.8	502.1	496.8	510.9	497.6
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB2

Operator: HSC

Run Time: 04/25/07 20:48:18

Comment: 623661||200.7 GW

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8620	75.32	-.7560	3.977	.4107	.2333	82.63
SDev	.7511	42.39	2.0019	.583	.1096	.0808	40.84
%RSD	87.14	56.28	264.8	14.67	26.68	34.63	49.43

#1	.0924	54.07	-1.337	3.304	.2987	.2115	61.74
#2	1.593	47.75	1.472	4.306	.4156	.1656	56.46
#3	.9004	124.1	-2.403	4.322	.5177	.3227	Q129.7

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4575	.4776	1.205	-.1310	33.25	-3.795	77.05
SDev	.3624	.3654	.523	.3700	16.01	10.339	41.76
%RSD	79.22	76.50	43.43	282.5	48.16	272.4	54.19

#1	.2841	.5352	.6211	-.3618	24.28	-2.435	58.51
#2	.2143	.8108	1.362	-.3270	23.73	-14.75	47.78
#3	.8740	.0869	1.632	.2958	51.73	5.797	124.9

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3859	.3532	-32.96	-.0070	3.704	1.343	2.772
SDev	.1154	1.296	5.47	.3314	1.161	.885	2.738
%RSD	29.90	366.8	16.60	4701.	31.34	65.92	98.77

#1	.2822	.6677	-33.85	-.3247	5.018	.8813	3.181
#2	.3653	1.463	-37.94	-.0331	3.273	.7841	-.1472
#3	.5102	-1.071	-27.11	.3366	2.820	2.364	5.284

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.347	.5109	5.429	3.383	.6488	.7013	5.741
SDev	2.822	.0887	5.537	18.68	.4574	.1285	8.645
%RSD	209.5	17.35	102.0	552.2	70.50	18.32	150.6

#1	1.813	.4089	-.1062	-17.08	.9127	.6619	-2.358
#2	3.906	.5701	5.426	7.697	.9130	.5971	4.737
#3	-1.679	.5535	10.97	19.53	.1206	.8449	14.84

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	24.97	53.24	.3327	-3.061	3.542	-5.536	6.920
SDev	18.62	39.70	.1129	4.678	1.581	6.831	2.115
%RSD	74.56	74.56	33.92	152.9	44.63	123.4	30.56
#1	46.47	99.06	.2424	-1.790	2.215	-.6385	5.087
#2	14.59	31.15	.2964	-8.243	5.291	-13.34	6.439
#3	13.87	29.51	.4592	.8516	3.119	-2.630	9.235
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV3

Operator: HSC

Run Time: 04/25/07 21:47:30

Comment: 624329||200.7 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	490.5	5112.	499.7	494.8	506.5	499.6	5131.
SDev	1.5	10.	.8	3.0	.7	.4	16.
%RSD	.3125	.1983	.1640	.6075	.1407	.0741	.3064

#1	492.1	5101.	498.8	491.5	505.7	499.3	5114.
#2	489.0	5121.	499.9	495.4	507.0	499.5	5146.
#3	490.4	5114.	500.4	497.4	506.8	500.0	5133.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	496.5	502.1	504.1	502.0	5151.	5192.	5155.
SDev	.7	1.3	.6	.9	32.	15.	15.
%RSD	.1373	.2504	.1141	.1725	.6282	.2956	.2918

#1	495.9	500.6	503.7	502.7	5119.	5177.	5139.
#2	497.3	502.7	504.8	501.0	5184.	5208.	5169.
#3	496.5	502.8	503.9	502.3	5150.	5191.	5158.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	510.8	508.5	10480.	496.0	497.1	501.8	510.2
SDev	1.9	3.7	81.	.6	3.6	3.6	2.3
%RSD	.3709	.7260	.7755	.1246	.7181	.7254	.4445

#1	508.9	504.5	10570.	496.5	497.5	500.2	508.1
#2	512.6	511.8	10460.	496.3	500.5	499.2	509.9
#3	510.8	509.2	10420.	495.3	493.4	505.9	512.6

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	506.5	492.5	496.2	497.3	511.0	508.6	2570.
SDev	2.3	1.7	6.4	15.9	2.2	2.7	21.
%RSD	.4515	.3489	1.292	3.201	.4327	.5327	.8179

#1	504.5	494.2	495.7	513.6	508.8	506.1	2594.
#2	509.0	490.8	490.0	481.8	513.2	511.4	2561.
#3	506.0	492.6	502.8	496.5	511.1	508.2	2554.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2333.	4991.	501.9	508.4	498.5	518.3	506.1
SDev	22.	47.	1.3	3.2	3.9	5.7	5.0
%RSD	.9627	.9510	.2508	.6287	.7903	1.094	.9794
#1	2359.	5046.	503.1	507.9	496.3	523.4	500.4
#2	2319.	4963.	500.6	505.4	496.1	512.2	508.7
#3	2320.	4964.	502.1	511.7	503.0	519.3	509.2
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB3

Operator: HSC

Run Time: 04/25/07 21:53:27

Comment: 624329||200.7 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8746	3.242	-.8642	2.757	.3380	.1474	7.588
SDev	.6708	3.200	1.2099	.628	.0778	.0445	2.062
%RSD	76.70	98.69	140.0	22.79	23.01	30.22	27.18

#1	1.488	1.649	-2.244	3.151	.3267	.1175	7.518
#2	.1582	1.152	-.3619	3.086	.2666	.1261	5.562
#3	.9777	6.925	.0138	2.032	.4209	.1986	9.684

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2290	.9804	.7496	-.3606	3.585	-8.462	3.302
SDev	.1185	.3661	.7340	.2565	1.229	3.010	3.837
%RSD	51.73	37.35	97.91	71.11	34.29	35.58	116.2

#1	.0922	1.233	1.067	-.0656	4.084	-4.998	6.992
#2	.2997	.5605	1.272	-.5302	2.184	-10.44	-.6665
#3	.2951	1.148	-.0896	-.4861	4.485	-9.948	3.581

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3088	1.548	-23.44	-.3753	1.535	2.606	-4.260
SDev	.0779	.584	3.64	.4575	3.331	.619	2.661
%RSD	25.21	37.72	15.53	121.9	217.0	23.74	62.46

#1	.3638	1.956	-20.82	-.0733	1.247	3.264	-7.330
#2	.2197	.8793	-27.59	-.1511	-1.643	2.036	-2.621
#3	.3428	1.810	-21.89	-.9016	5.000	2.519	-2.829

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7154	.4810	.2979	18.95	.8307	.2687	-.6536
SDev	.9938	.1712	5.902	19.14	.4762	.3554	11.801
%RSD	138.9	35.60	1982.	101.0	57.33	132.3	1806.

#1	.6406	.5633	4.671	-2.130	1.066	.3471	4.636
#2	-.2388	.2842	-6.416	23.71	.2826	-.1194	-14.17
#3	1.745	.5956	2.638	35.26	1.143	.5782	7.577

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	30.14	64.29	.2438	-.9595	4.387	-1.636	-5.569
SDev	23.47	49.99	.0622	1.0192	1.375	4.632	3.691
%RSD	77.86	77.75	25.50	106.2	31.36	283.0	66.27
#1	26.31	56.14	.2295	-1.582	5.683	-4.039	-8.973
#2	55.29	117.9	.1900	.2167	2.944	-4.574	-1.646
#3	8.825	18.88	.3119	-1.513	4.533	3.703	-6.089
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV3

Operator: HSC

Run Time: 04/25/07 22:52:40

Comment: 624746||200.7 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	487.7	5072.	499.4	494.4	502.8	499.0	5115.
SDev	1.9	16.	.4	2.4	.5	1.4	12.
%RSD	.3892	.3087	.0863	.4759	.0904	.2728	.2248

#1	486.9	5064.	499.2	492.1	502.6	498.5	5110.
#2	489.9	5061.	499.2	494.3	503.3	500.5	5107.
#3	486.4	5090.	499.9	496.8	502.5	497.9	5128.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	495.3	502.6	502.4	499.6	5124.	5209.	5144.
SDev	3.2	.5	.9	1.0	30.	11.	17.
%RSD	.6398	.1073	.1782	.2092	.5843	.2197	.3275

#1	494.7	503.1	501.3	499.7	5115.	5210.	5141.
#2	498.7	502.6	502.8	500.7	5100.	5197.	5128.
#3	492.5	502.0	503.0	498.6	5158.	5220.	5162.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	508.0	508.0	10460.	494.4	491.4	501.7	506.6
SDev	1.7	3.6	74.	2.5	8.3	3.9	5.3
%RSD	.3438	.7147	.7059	.5106	1.696	.7688	1.042

#1	507.5	504.0	10540.	494.3	486.6	498.0	504.6
#2	506.6	509.0	10390.	496.9	486.6	501.3	502.6
#3	509.9	511.0	10440.	491.9	501.0	505.7	512.6

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	507.1	490.5	494.4	487.3	507.9	507.3	2330.
SDev	2.9	2.9	1.8	20.5	1.7	.3	30.
%RSD	.5623	.5995	.3551	4.217	.3345	.0591	1.281

#1	505.9	490.0	496.4	498.2	508.0	507.5	2357.
#2	505.1	493.7	493.3	463.6	506.1	506.9	2333.
#3	510.4	487.9	493.6	500.0	509.5	507.4	2298.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2321.	4966.	499.5	507.6	498.8	519.8	500.0
SDev	6.	12.	1.8	3.6	7.6	5.4	5.9
%RSD	.2375	.2429	.3560	.7087	1.519	1.034	1.187
#1	2315.	4954.	499.1	511.0	491.6	521.6	496.2
#2	2326.	4978.	501.4	507.8	498.1	513.8	497.0
#3	2321.	4966.	497.9	503.8	506.7	524.1	506.8
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB3

Operator: HSC

Run Time: 04/25/07 22:58:37

Comment: 624746||200.7 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.669	5.795	-.4348	4.495	.4039	.1597	7.432
SDev	.677	2.897	2.6446	.424	.1519	.0257	.549
%RSD	40.55	49.98	608.3	9.426	37.62	16.07	7.384

#1	.9452	2.455	2.043	4.427	.3814	.1893	7.980
#2	1.777	7.320	-3.219	4.949	.2644	.1437	6.883
#3	2.286	7.611	-.1280	4.110	.5658	.1461	7.435

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3649	.9250	1.131	.5563	3.303	.8904	6.003
SDev	.2266	.7991	.367	1.384	.158	10.81	3.216
%RSD	62.11	86.38	32.48	248.7	4.775	1214.	53.57

#1	.1136	.0142	.9029	1.562	3.159	12.41	2.730
#2	.5537	1.253	.9346	-1.022	3.471	-9.043	6.121
#3	.4275	1.508	1.554	1.128	3.278	-.6939	9.158

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3156	.8085	-12.43	.4016	.2241	1.465	.0327
SDev	.0588	.3134	9.67	.2710	4.506	.338	2.381
%RSD	18.62	38.76	77.77	67.48	2011.	23.07	7274.

#1	.2811	.4494	-1.285	.7142	5.416	1.557	2.549
#2	.3835	.9499	-18.53	.2334	-2.067	1.091	-.2656
#3	.2823	1.026	-17.48	.2572	-2.677	1.748	-2.185

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.409	.6917	3.728	29.85	1.118	.3314	-.4204
SDev	1.366	.2159	4.486	15.87	.512	.0813	2.3077
%RSD	96.93	31.21	120.4	53.14	45.81	24.54	549.0

#1	2.940	.4760	8.366	26.27	.5948	.2823	1.440
#2	.3154	.6914	3.407	16.09	1.142	.2867	-3.003
#3	.9720	.9078	-.5902	47.21	1.619	.4253	.3015

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.98	23.44	.2571	-4.314	4.351	-7.267	3.677
SDev	7.45	15.86	.0095	3.517	1.603	6.210	1.746
%RSD	67.82	67.68	3.714	81.53	36.86	85.47	47.48
#1	18.97	40.45	.2465	-.3417	2.505	-2.955	5.297
#2	9.751	20.82	.2650	-7.031	5.146	-4.459	1.828
#3	4.227	9.050	.2599	-5.568	5.401	-14.38	3.906
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: CCV3

Operator: HSC

Run Time: 04/25/07 23:51:57

Comment: 628344||6010 TCLP

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	486.2	5044.	491.3	494.3	501.6	496.4	5088.
SDev	2.4	53.	7.4	6.2	4.2	2.4	48.
%RSD	.4955	1.047	1.513	1.248	.8415	.4757	.9381

#1	483.5	4984.	483.2	487.3	496.7	493.7	5033.
#2	487.3	5064.	492.9	497.0	504.3	498.1	5121.
#3	488.0	5084.	497.7	498.7	503.7	497.3	5109.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	493.9	499.7	500.1	497.2	5081.	5179.	5106.
SDev	1.5	3.4	3.6	3.1	62.	29.	44.
%RSD	.3041	.6852	.7149	.6208	1.218	.5578	.8696

#1	492.2	495.7	496.0	493.7	5011.	5146.	5054.
#2	494.7	501.8	502.6	498.4	5127.	5191.	5134.
#3	494.9	501.5	501.7	499.5	5106.	5200.	5128.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	505.6	504.6	10390.	493.4	490.6	501.3	502.6
SDev	4.7	7.9	85.	2.1	1.2	4.1	.8
%RSD	.9348	1.569	.8200	.4253	.2463	.8088	.1657

#1	500.2	495.4	10300.	491.4	489.9	496.6	503.5
#2	509.1	509.1	10410.	495.5	490.0	503.4	502.4
#3	507.5	509.2	10470.	493.2	492.0	503.8	501.9

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	501.5	489.5	485.4	473.5	505.8	503.9	2434.
SDev	4.8	2.4	3.6	31.2	5.3	4.6	12.
%RSD	.9584	.4805	.7455	6.587	1.043	.9052	.4767

#1	496.1	486.8	482.5	467.7	499.7	498.8	2430.
#2	505.3	490.9	489.5	Q445.7	509.4	507.5	2447.
#3	503.0	490.9	484.3	507.2	508.3	505.4	2426.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2300.	4921.	499.5	500.6	501.6	507.8	500.0
SDev	22.	48.	3.5	6.3	8.0	11.3	5.1
%RSD	.9724	.9781	.6988	1.258	1.587	2.226	1.024
#1	2275.	4867.	495.5	504.0	492.9	517.5	496.5
#2	2307.	4936.	501.0	493.3	508.5	495.4	505.9
#3	2318.	4959.	501.9	504.4	503.4	510.4	497.7
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB3

Operator: HSC

Run Time: 04/25/07 23:57:54

Comment: 628344||6010 TCLP

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.193	-.5178	-.7696	2.769	.4650	.2137	14.80
SDev	.634	2.9998	2.3227	.726	.0885	.0532	2.22
%RSD	53.17	579.4	301.8	26.22	19.04	24.89	15.02

#1	1.780	.9247	-.1268	3.290	.4698	.2742	15.38
#2	1.280	1.488	-3.346	3.078	.5511	.1928	16.68
#3	.5198	-3.966	1.164	1.940	.3742	.1742	12.35

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1329	.5761	.8432	-.5898	2.751	-10.67	5.405
SDev	.3153	1.002	.3032	1.1677	.635	11.37	1.836
%RSD	237.1	174.0	35.96	198.0	23.10	106.6	33.97

#1	.4713	1.700	.7794	.2929	3.471	.6463	5.319
#2	-.1525	.2547	1.173	-1.914	2.514	-22.09	7.284
#3	.0800	-.2261	.5769	-.1484	2.269	-10.56	3.614

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4584	1.500	81.38	.5393	1.016	1.406	2.898
SDev	.0916	.346	8.31	.6172	7.086	1.556	.235
%RSD	19.98	23.06	10.21	114.4	697.8	110.7	8.098

#1	.4273	1.243	82.69	1.188	2.112	.9888	2.804
#2	.5615	1.364	88.96	-.0409	-6.555	3.128	2.725
#3	.3863	1.894	72.49	.4711	7.490	.1010	3.165

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.178	.4921	8.422	-11.71	.7774	.5540	8.699
SDev	1.444	.0421	2.008	59.85	.5523	.0854	5.780
%RSD	122.6	8.561	23.84	511.1	71.04	15.42	66.45

#1	.2752	.5384	7.738	12.13	1.305	.6472	8.846
#2	2.844	.4561	6.846	Q-79.80	.8232	.4795	2.846
#3	.4153	.4819	10.68	32.55	.2037	.5352	14.40

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15.67	33.46	.3023	-4.415	4.312	-2.212	5.450
SDev	18.34	39.08	.0555	7.157	5.725	7.823	3.742
%RSD	117.0	116.8	18.35	162.1	132.8	353.6	68.66
#1	30.30	64.63	.3296	1.169	.8987	3.542	2.435
#2	-4.895	-10.38	.3388	-12.48	10.92	-11.12	9.637
#3	21.61	46.12	.2385	-1.932	1.116	.9407	4.276
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: 1201319438 Operator: HSC
 Run Time: 04/26/07 00:03:50
 Comment: 627239||6010 GW
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0144	.5833	.9282	.9636	.1575	.0034	7.859
SDev	1.5820	3.142	1.963	2.039	.4384	.0241	1.196
%RSD	10980.	538.7	211.5	211.6	278.3	711.7	15.22

#1	.9258	2.682	-1.124	2.777	.4317	-.0134	8.634
#2	-1.841	-3.029	2.787	-1.243	-.3481	.0310	6.482
#3	.8719	2.096	1.122	1.357	.3890	-.0074	8.461

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	200.0	15.00	50.00	5.000	5.000	100.0
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0143	-.2615	.4712	-.3996	1.467	-11.52	-.8144
SDev	.1533	1.2546	1.132	.7582	.636	8.10	5.7441
%RSD	1075.	479.9	240.2	189.7	43.34	70.38	705.3

#1	-.1563	.6076	.6110	-1.266	1.358	-20.74	3.504
#2	.1406	-1.700	-.7241	.1445	.8924	-5.550	-7.333
#3	.0585	.3078	1.527	-.0777	2.150	-8.253	1.386

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	5.000	10.00	100.0	150.0	300.0
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1560	-.5326	61.44	.6868	3.562	1.240	-1.110
SDev	.0922	.0703	3.23	.3673	2.825	2.298	1.993
%RSD	59.06	13.19	5.255	53.48	79.30	185.3	179.6

#1	.2372	-.4670	57.85	.3362	6.339	.3728	-.7613
#2	.0558	-.6068	62.35	.6554	3.657	-.4982	-3.255
#3	.1751	-.5240	64.11	1.069	.6916	3.845	.6858

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.00	10.00	150.0	5.000	10.00	10.00	15.00
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7311	.1511	1.932	19.85	.0781	.6356	-2.585
SDev	2.9617	.3523	3.686	10.31	.9586	.1708	2.796
%RSD	405.1	233.1	190.8	51.93	1227.	26.87	108.1

#1	-2.463	.3708	5.722	19.43	.7439	.6247	-.3179
#2	-2.419	-.2552	1.713	30.36	-1.021	.4705	-5.710
#3	2.689	.3379	-1.641	9.756	.5110	.8115	-1.729

High	10.00	5.000	20.00	50.00	10.00	10.00	150.0
Low	-10.00	-5.000	-20.00	-50.00	-10.00	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.07	42.75	.0290	-.7499	2.233	-4.181	.4231
SDev	27.48	58.56	.1053	8.4690	6.743	9.747	7.846
%RSD	136.9	137.0	362.7	1129.	301.9	233.1	1855.

#1	6.088	12.95	.0844	-6.808	3.958	-6.929	2.318
#2	51.73	110.2	-.0924	8.927	-5.204	6.644	-8.197
#3	2.389	5.070	.0950	-4.370	7.947	-12.26	7.149

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	100.0		10.00				
Low	-100.0		-10.00				

Method: TRACE2 Sample Name: 1201319439 Operator: HSC
 Run Time: 04/26/07 00:09:45
 Comment: 627239||6010 GW
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	490.9	5084.	497.4	492.0	512.6	498.9	5105.
SDev	.9	24.	2.7	1.5	2.1	1.7	18.
%RSD	.1933	.4780	.5372	.3126	.4058	.3384	.3552

#1	489.8	5061.	500.1	490.3	510.8	497.1	5091.
#2	491.6	5083.	494.7	493.3	514.9	500.4	5126.
#3	491.2	5109.	497.2	492.3	512.2	499.0	5098.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	493.9	502.8	494.8	501.8	5050.	5025.	5103.
SDev	1.3	1.4	1.5	1.4	32.	12.	14.
%RSD	.2606	.2832	.3084	.2879	.6261	.2462	.2745

#1	492.4	501.7	493.2	500.1	5031.	5030.	5096.
#2	494.5	504.4	496.3	502.4	5087.	5010.	5119.
#3	494.7	502.2	495.0	502.8	5033.	5034.	5094.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	505.2	501.0	5332.	492.2	499.3	500.7	492.9
SDev	2.3	1.6	30.	1.1	2.4	2.6	3.9
%RSD	.4564	.3151	.5577	.2195	.4877	.5195	.7818

#1	503.4	500.5	5357.	491.2	502.1	498.5	490.8
#2	507.8	502.7	5299.	493.4	498.1	503.6	490.6
#3	504.4	499.7	5339.	492.1	497.7	500.1	497.3

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	508.3	498.6	482.9	501.7	502.6	506.4	488.5
SDev	2.1	1.3	4.1	38.9	1.8	2.8	13.3
%RSD	.4120	.2557	.8498	7.757	.3593	.5555	2.729

#1	507.2	497.3	482.1	542.4	501.8	504.7	488.5
#2	510.7	499.9	487.3	464.8	504.6	509.6	501.8
#3	506.9	498.7	479.2	497.9	501.3	504.8	475.1

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4957.	10580.	496.8	501.5	500.4	496.4	491.1
SDev	15.	33.	2.0	6.1	1.4	6.5	2.7
%RSD	.3113	.3100	.4037	1.207	.2863	1.301	.5520

#1	4940.	10550.	495.0	495.0	500.3	491.6	490.4
#2	4963.	10600.	499.0	507.0	501.9	494.0	488.9
#3	4969.	10610.	496.5	502.3	499.0	503.8	494.1

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: 184228004 Operator: HSC
 Run Time: 04/26/07 00:15:41
 Comment: 627239||6010 GW
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.4087	33.62	-1.638	70.39	74.20	.0777	42190.
SDev	.7613	2.49	2.423	2.48	.31	.0246	20.
%RSD	186.3	7.404	147.9	3.528	.4114	31.67	.0484

#1	1.052	35.77	.8225	72.77	74.33	.0966	42210.
#2	-.4315	34.20	-4.022	70.59	74.41	.0866	42190.
#3	.6050	30.89	-1.715	67.81	73.85	.0498	42170.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0339	.2091	1.732	.7139	28.47	2800.	5995.
SDev	.2257	.2373	.211	.2108	.68	1.	7.
%RSD	666.4	113.5	12.15	29.52	2.401	.0336	.1228

#1	.0039	.4767	1.816	.6628	28.42	2799.	5989.
#2	.2730	.1258	1.493	.9456	27.82	2800.	5993.
#3	-.1753	.0246	1.888	.5334	29.18	2800.	6003.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.154	10.93	H311100.	-.1408	-.2650	2.657	-1.032
SDev	.053	1.18	3100.	.6529	2.6173	2.394	3.382
%RSD	4.602	10.77	.9963	463.8	987.6	90.08	327.8

#1	1.206	12.17	H313900.	.6103	-3.121	4.875	.3127
#2	1.100	10.78	H311600.	-.4594	2.019	2.976	1.471
#3	1.156	9.831	H307800.	-.5731	.3064	.1200	-4.879

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.7186	1.187	1.220	-1.891	1.037	1.899	22.62
SDev	1.773	.196	3.469	6.254	.429	.299	1.59
%RSD	246.7	16.55	284.5	330.8	41.40	15.73	7.034

#1	1.366	1.396	1.162	-6.781	1.531	2.243	22.71
#2	-1.287	1.007	-2.220	-4.047	.8300	1.733	20.99
#3	2.077	1.156	4.717	5.156	.7505	1.719	24.17

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2015.	4294.	151.0	-3.952	5.957	-4.003	.4517
SDev	18.	39.	.6	3.252	2.006	2.878	6.482
%RSD	.9019	.9013	.4227	82.30	33.68	71.89	1435.

#1	2014.	4292.	151.7	-.6068	7.613	-5.778	3.353
#2	1997.	4257.	150.7	-4.146	6.532	-5.549	4.976
#3	2034.	4334.	150.5	-7.102	3.726	-.6825	-6.975

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: 1201319440 Operator: HSC
 Run Time: 04/26/07 00:21:36
 Comment: 627239||6010 GW
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.112	39.28	-4.531	69.28	73.88	-.0052	42070.
SDev	.389	1.49	4.103	2.29	.39	.0096	187.
%RSD	35.02	3.790	90.56	3.310	.5342	184.1	.4454

#1	1.007	37.94	-8.893	70.76	74.29	-.0094	42280.
#2	.7853	40.88	-3.950	70.44	73.84	-.0119	42000.
#3	1.543	39.01	-.7489	66.64	73.50	.0057	41930.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0578	.5119	2.308	.2120	26.54	2786.	5983.
SDev	.3710	.0757	.213	.0579	.58	13.	23.
%RSD	642.3	14.78	9.240	27.30	2.197	.4733	.3772

#1	.4861	.5983	2.062	.2352	27.18	2801.	6008.
#2	-.1586	.4579	2.434	.1461	26.04	2776.	5973.
#3	-.1542	.4793	2.427	.2546	26.41	2781.	5966.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.099	13.42	H315100.	.2193	3.089	1.971	-2.840
SDev	.018	1.96	2264.	.4860	1.312	2.425	6.325
%RSD	1.638	14.63	.7187	221.6	42.46	123.1	222.7

#1	1.117	12.02	H315800.	.7767	4.485	3.566	.9460
#2	1.081	12.57	H316800.	-.0020	1.882	3.168	.6745
#3	1.100	15.66	H312500.	-.1167	2.899	-.8203	-10.14

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0473	1.201	.7091	-3.787	1.559	.7464	31.48
SDev	1.2956	.233	4.390	10.727	.244	.1533	5.03
%RSD	2738.	19.39	619.1	283.3	15.65	20.54	15.96

#1	1.065	1.468	5.054	-8.040	1.387	.7651	34.27
#2	-1.470	1.087	.7984	8.415	1.451	.5846	25.68
#3	.2625	1.047	-3.725	-11.74	1.838	.8895	34.50

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2011.	4287.	150.5	-2.913	4.409	-12.43	1.945
SDev	12.	26.	1.0	4.150	2.499	2.98	8.300
%RSD	.6189	.6171	.6368	142.5	56.67	24.01	426.7

#1	2023.	4312.	151.3	-3.487	7.086	-9.283	6.053
#2	2012.	4289.	150.6	1.494	4.003	-12.78	7.390
#3	1998.	4259.	149.4	-6.746	2.138	-15.22	-7.607

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: 1201319441 Operator: HSC
 Run Time: 04/26/07 00:27:31
 Comment: 627239||6010 GW
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	495.7	5014.	504.5	562.9	575.3	504.2	46070.
SDev	2.7	10.	.8	3.1	.5	2.1	34.
%RSD	.5366	.1990	.1632	.5486	.0801	.4230	.0740

#1	493.3	5016.	505.1	559.5	574.9	502.0	46070.
#2	495.1	5023.	504.8	563.8	575.3	504.5	46100.
#3	498.5	5003.	503.5	565.5	575.8	506.2	46040.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	498.6	502.8	498.7	510.7	5070.	7913.	10840.
SDev	3.3	1.4	1.2	1.7	24.	23.	11.
%RSD	.6531	.2687	.2405	.3395	.4751	.2890	.1041

#1	495.5	501.7	497.4	508.7	5096.	7932.	10840.
#2	498.2	502.3	498.8	511.4	5066.	7919.	10850.
#3	502.0	504.3	499.8	512.0	5049.	7887.	10820.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	505.6	523.1	H307400.	497.6	511.8	496.6	496.4
SDev	.7	1.5	776.	2.4	7.3	1.7	1.9
%RSD	.1461	.2835	.2526	.4802	1.423	.3394	.3908

#1	506.4	524.8	H306500.	495.5	512.2	498.5	497.9
#2	505.6	522.0	H307900.	497.1	518.9	495.3	494.2
#3	504.9	522.6	H307800.	500.2	504.4	495.9	497.1

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	513.7	504.2	489.9	485.1	512.3	518.1	526.2
SDev	.6	3.2	1.1	12.7	1.2	1.7	15.5
%RSD	.1254	.6340	.2194	2.618	.2285	.3326	2.954

#1	513.7	501.3	489.7	499.4	513.7	519.3	543.9
#2	513.0	503.6	489.0	474.9	511.5	518.8	519.8
#3	514.3	507.6	491.1	481.2	511.7	516.1	514.9

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6878.	14680.	635.6	501.3	494.2	511.3	489.0
SDev	21.	45.	2.8	1.8	3.1	4.1	3.6
%RSD	.3084	.3092	.4351	.3587	.6363	.8018	.7398

#1	6856.	14630.	632.8	500.4	497.5	507.7	493.0
#2	6881.	14690.	635.6	503.4	491.3	510.5	486.1
#3	6898.	14720.	638.3	500.2	493.8	515.8	487.8

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: 1201319442|5| Operator: HSC
 Run Time: 04/26/07 00:33:27
 Comment: 627239||6010 GW
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.249	20.32	-1.673	16.67	15.37	.0710	8497.
SDev	.623	2.15	3.189	.12	.22	.0382	36.
%RSD	49.92	10.59	190.6	.7283	1.455	53.81	.4210

#1	.5304	18.38	1.074	16.65	15.16	.1101	8456.
#2	1.649	22.64	-5.171	16.56	15.61	.0690	8518.
#3	1.566	19.96	-.9227	16.80	15.35	.0338	8518.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0522	1.011	1.099	-.0820	8.536	551.2	1212.
SDev	.3149	.661	.421	.4887	.493	7.0	9.
%RSD	603.6	65.39	38.28	596.1	5.779	1.270	.7121

#1	.2495	.3374	.8114	.4340	8.183	559.1	1202.
#2	-.3110	1.036	1.582	-.1421	9.099	548.4	1217.
#3	.2181	1.658	.9037	-.5379	8.324	546.0	1217.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5038	3.015	59510.	.6883	-1.026	2.647	-5.895
SDev	.0604	1.332	324.	.3632	7.638	1.561	1.713
%RSD	11.99	44.18	.5447	52.76	744.4	58.98	29.06

#1	.4433	3.026	59770.	1.062	6.896	3.096	-6.414
#2	.5641	1.677	59150.	.3366	-1.630	3.935	-3.983
#3	.5041	4.341	59600.	.6663	-8.344	.9109	-7.289

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7060	.6862	-1.372	3.432	.8611	1.287	3.560
SDev	3.303	.2510	5.049	14.00	.7100	.068	1.855
%RSD	467.8	36.57	368.0	407.8	82.46	5.262	52.09

#1	-2.708	.4356	4.323	13.43	.1391	1.355	1.939
#2	.9406	.9375	-3.136	-12.56	1.559	1.287	3.159
#3	3.885	.6855	-5.303	9.431	.8855	1.220	5.582

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	425.9	907.8	30.71	-6.015	6.972	-11.34	-3.180
SDev	11.7	24.9	.03	6.640	4.452	7.00	5.048
%RSD	2.737	2.743	.0855	110.4	63.86	61.78	158.8

#1	425.9	907.9	30.71	.8244	4.230	-3.302	-7.968
#2	414.2	882.9	30.69	-12.44	12.11	-16.15	2.094
#3	437.6	932.7	30.74	-6.432	4.577	-14.55	-3.665

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: 184428005 Operator: HSC
 Run Time: 04/26/07 00:39:22
 Comment: 627239||6010 GW
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.670	172.7	-2.839	32.94	620.6	-.0299	142400.
SDev	.391	4.9	1.359	.71	.7	.0278	85.
%RSD	23.43	2.824	47.87	2.143	.1144	92.85	.0594

#1	1.755	172.6	-2.359	33.72	620.0	-.0186	142300.
#2	2.013	177.7	-1.785	32.78	621.4	-.0096	142300.
#3	1.244	167.9	-4.372	32.33	620.5	-.0616	142500.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1806	1.060	1.736	.5946	234.0	1592.	29250.
SDev	.2358	.380	.527	.3910	.8	3.	28.
%RSD	130.6	35.89	30.38	65.75	.3479	.2075	.0960

#1	.3122	.6794	1.772	.1886	234.0	1589.	29250.
#2	.3212	1.440	2.243	.6267	233.3	1595.	29220.
#3	-.0916	1.060	1.191	.9685	234.9	1590.	29280.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.57	.6026	83470.	.8355	1.614	2.323	-1.050
SDev	.07	.4008	420.	1.058	4.426	.896	6.939
%RSD	.4104	66.51	.5030	126.6	274.2	38.57	660.6

#1	17.64	.4428	83530.	-.2435	6.469	1.619	-6.614
#2	17.59	.3063	83870.	.8787	-2.195	2.019	-3.261
#3	17.49	1.059	83030.	1.871	.5683	3.332	6.725

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8464	5.721	8.912	-8.708	2.167	30.09	13.97
SDev	2.764	.346	4.743	14.009	.823	.47	5.83
%RSD	326.6	6.046	53.22	160.9	37.98	1.562	41.71

#1	1.708	5.509	5.099	-10.66	1.618	30.55	12.10
#2	-2.246	6.120	7.412	-21.64	3.113	29.61	20.51
#3	3.077	5.533	14.22	6.174	1.770	30.12	9.313

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8268.	17620.	383.7	-3.504	5.232	-5.709	1.276
SDev	22.	47.	1.0	3.757	.856	9.995	5.869
%RSD	.2657	.2683	.2510	107.2	16.35	175.1	460.1

#1	8282.	17650.	383.9	-4.885	4.866	-10.75	-4.551
#2	8279.	17640.	384.5	-6.375	6.210	-12.18	1.193
#3	8243.	17560.	382.6	.7481	4.622	5.802	7.185

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: 184428006 Operator: HSC
 Run Time: 04/26/07 00:45:18
 Comment: 627239||6010 GW
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6664	20.40	1.334	42.76	940.2	-.0521	176200.
SDev	.6084	3.64	2.448	.32	1.2	.0175	594.
%RSD	91.29	17.84	183.6	.7489	.1263	33.59	.3369

#1	.9150	22.02	-1.423	42.73	940.9	-.0509	176800.
#2	-.0269	16.23	3.256	43.10	940.9	-.0352	176200.
#3	1.111	22.95	2.169	42.46	938.9	-.0702	175600.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1148	.3313	.7604	-1.158	28.49	1965.	35760.
SDev	.3424	.7248	.4526	.541	.72	11.	131.
%RSD	298.1	218.7	59.53	46.73	2.530	.5482	.3673

#1	.5053	.1841	.8083	-.5630	28.22	1977.	35900.
#2	-.1341	1.118	.2857	-1.621	27.94	1958.	35750.
#3	-.0266	-.3085	1.187	-1.289	29.30	1959.	35640.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3697	-.0785	137100.	.7929	3.343	2.234	-3.811
SDev	.0887	.9964	582.	.4903	2.111	1.454	1.554
%RSD	23.98	1270.	.4248	61.84	63.14	65.08	40.78

#1	.3690	1.069	137400.	.6237	5.588	3.791	-3.437
#2	.2815	-.7217	137400.	.4096	1.397	1.998	-2.478
#3	.4588	-.5830	136400.	1.345	3.045	.9120	-5.519

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0768	.0389	3.990	-17.15	.7623	-.9875	8.186
SDev	1.457	.2612	4.788	15.86	.5313	.1424	5.769
%RSD	1898.	670.8	120.0	92.48	69.69	14.42	70.47

#1	1.758	.0973	9.206	-3.099	1.270	-1.142	10.57
#2	-.8314	-.2465	-.2058	-34.34	.2099	-.8611	12.38
#3	-.6958	.2661	2.971	-14.00	.8076	-.9595	1.607

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8433.	17970.	476.0	-3.876	5.284	-7.931	-1.755
SDev	28.	60.	.8	1.650	1.365	1.823	3.236
%RSD	.3366	.3358	.1750	42.58	25.83	22.99	184.4

#1	8457.	18020.	476.7	-2.037	6.701	-8.610	-.8542
#2	8441.	17990.	476.1	-4.363	5.174	-9.316	.9353
#3	8402.	17900.	475.1	-5.229	3.978	-5.865	-5.346

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: 184428007 Operator: HSC
 Run Time: 04/26/07 00:51:13
 Comment: 627239||6010 GW
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.353	173.8	-.3574	23.58	305.9	-.0221	74870.
SDev	.316	2.7	1.4223	.33	.4	.0053	104.
%RSD	23.34	1.561	398.0	1.406	.1375	23.88	.1385

#1	.9911	171.8	-1.999	23.91	305.4	-.0189	74970.
#2	1.498	176.8	.4302	23.58	306.1	-.0193	74870.
#3	1.571	172.6	.4970	23.25	306.2	-.0282	74760.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0271	.9306	1.854	.4010	243.1	1215.	16280.
SDev	.1961	.1840	.796	.6993	.4	3.	42.
%RSD	724.1	19.78	42.91	174.4	.1657	.2536	.2560

#1	.0808	1.037	1.139	.6202	242.8	1216.	16320.
#2	-.1903	.7181	1.712	.9645	243.1	1218.	16270.
#3	.1907	1.037	2.712	-.3816	243.6	1212.	16240.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.64	-.0326	56780.	1.120	3.430	2.230	-.4309
SDev	.03	1.1598	45.	.638	6.061	1.301	3.3837
%RSD	.2517	3558.	.0789	56.98	176.7	58.35	785.3

#1	13.64	.1019	56830.	.7452	-3.546	.7867	3.389
#2	13.67	1.054	56740.	1.857	7.412	3.313	-1.629
#3	13.61	-1.254	56770.	.7585	6.423	2.589	-3.052

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.689	6.464	3.467	4.509	2.502	2.129	33.22
SDev	.591	.137	4.872	7.352	.201	.027	8.81
%RSD	34.97	2.124	140.5	163.1	8.013	1.246	26.52

#1	1.228	6.586	6.806	12.57	2.581	2.114	29.76
#2	1.485	6.315	5.718	2.793	2.651	2.113	43.24
#3	2.355	6.492	-2.123	-1.833	2.274	2.159	26.68

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6884.	14670.	190.7	-3.474	5.077	-6.303	2.501
SDev	4.	8.	.5	1.387	1.915	4.950	2.686
%RSD	.0566	.0552	.2654	39.94	37.71	78.54	107.4

#1	6884.	14670.	190.2	-3.392	2.873	-.5881	5.375
#2	6880.	14660.	190.9	-2.129	6.030	-9.045	2.073
#3	6888.	14680.	191.2	-4.900	6.328	-9.276	.0548

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/26/07 00:57:08

Comment: 627239||6010 GW

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	499.7	5131.	509.4	504.5	507.7	507.5	5225.
SDev	2.9	15.	4.3	2.2	.2	1.3	17.
%RSD	.5864	.2834	.8345	.4314	.0389	.2563	.3214

#1	502.2	5136.	511.9	502.7	507.7	509.0	5213.
#2	496.5	5115.	511.8	503.9	507.9	506.7	5244.
#3	500.3	5142.	504.5	506.9	507.5	506.9	5218.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	508.7	512.7	511.0	507.5	5181.	5333.	5250.
SDev	2.2	1.3	.4	1.4	35.	27.	10.
%RSD	.4394	.2483	.0699	.2813	.6704	.5107	.1914

#1	511.2	512.7	511.1	508.9	5150.	5363.	5241.
#2	507.0	513.9	510.5	506.1	5218.	5326.	5261.
#3	507.8	511.4	511.2	507.3	5174.	5311.	5249.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	514.6	518.4	10610.	506.9	507.3	511.6	516.0
SDev	1.4	4.3	71.	1.5	2.0	3.6	4.5
%RSD	.2631	.8315	.6738	.2987	.4017	.7096	.8728

#1	513.7	514.0	10690.	508.1	508.6	515.4	520.8
#2	516.1	522.7	10550.	505.2	508.3	508.1	511.9
#3	513.9	518.6	10590.	507.5	504.9	511.2	515.3

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	518.0	501.3	498.0	507.0	514.6	516.3	2464.
SDev	1.1	2.9	4.8	20.8	1.3	2.2	36.
%RSD	.2052	.5779	.9644	4.101	.2462	.4226	1.469

#1	519.0	504.2	499.4	520.4	513.2	514.1	2477.
#2	516.9	498.4	492.6	517.6	515.7	518.4	2423.
#3	518.1	501.4	501.9	483.1	514.8	516.4	2492.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2476.	5296.	505.1	514.8	510.0	522.2	512.9
SDev	4.	9.	1.7	10.8	6.4	11.6	6.8
%RSD	.1669	.1627	.3443	2.101	1.255	2.221	1.328
#1	2477.	5299.	507.1	523.3	511.4	532.1	515.2
#2	2471.	5287.	503.7	518.5	503.0	525.1	505.2
#3	2479.	5303.	504.6	502.6	515.5	509.4	518.3
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/26/07 01:03:04

Comment: 627239||6010 GW

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.625	5.009	-3.137	2.865	.5449	.2033	20.52
SDev	.497	6.591	4.776	.687	.1027	.0489	.73
%RSD	30.56	131.6	152.3	23.97	18.85	24.07	3.549

#1	1.094	-1.373	-8.578	2.700	.4272	.1592	19.93
#2	2.078	11.79	-1.195	3.620	.6162	.1946	21.33
#3	1.704	4.610	.3625	2.276	.5914	.2559	20.29

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1890	.9097	1.218	-.2332	4.127	-11.51	7.171
SDev	.0526	.5582	.384	.7313	1.242	4.82	3.398
%RSD	27.82	61.36	31.55	313.6	30.11	41.84	47.39

#1	.2495	.4796	.8093	-1.052	3.191	-16.44	4.808
#2	.1634	1.541	1.572	.3535	3.653	-6.819	5.639
#3	.1541	.7091	1.272	-.0005	5.536	-11.28	11.07

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3735	.8257	60.42	.7412	1.341	2.381	-.4785
SDev	.1635	.6028	2.54	.1981	2.413	1.024	2.2087
%RSD	43.78	73.01	4.197	26.73	179.9	43.00	461.6

#1	.1980	.3773	57.74	.7247	3.387	1.281	1.716
#2	.4011	1.511	62.79	.5519	-1.319	2.555	-2.701
#3	.5215	.5888	60.72	.9471	1.956	3.307	-.4506

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.905	.6573	4.124	-.6045	.8754	1.187	-3.352
SDev	2.203	.1424	5.096	20.822	.4716	.249	7.594
%RSD	75.85	21.67	123.6	3444.	53.87	20.99	226.5

#1	1.130	.4939	9.747	-24.54	.3603	.9047	-10.02
#2	5.371	.7233	2.813	9.413	.9800	1.282	4.915
#3	2.214	.7548	-.1892	13.31	1.286	1.375	-4.955

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16.53	35.26	.3452	-5.996	6.563	-6.606	2.581
SDev	14.43	30.74	.0535	3.236	1.003	2.189	4.404
%RSD	87.27	87.17	15.50	53.97	15.28	33.13	170.6
#1	7.294	15.56	.2995	-7.946	5.888	-8.799	6.966
#2	9.145	19.55	.3320	-7.782	7.716	-4.421	-1.842
#3	33.16	70.68	.4041	-2.260	6.086	-6.599	2.619
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

Method: TRACE2 Sample Name: 1201319902 Operator: HSC
 Run Time: 04/26/07 01:08:59
 Comment: 627449||6010 WATER
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.7031	-1.740	-1.122	.6268	.1734	-.0088	9.234
SDev	.3921	1.607	4.964	.8591	.1183	.0151	.851
%RSD	55.77	92.34	442.3	137.1	68.24	171.0	9.217

#1	.7957	-2.717	-6.428	.1663	.0494	.0009	9.369
#2	1.041	.1144	3.410	1.618	.2851	-.0262	10.01
#3	.2730	-2.617	-.3492	.0961	.1855	-.0011	8.324

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	200.0	15.00	50.00	5.000	5.000	100.0
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0435	.0833	.2567	-.5382	1.334	-12.56	.8239
SDev	.2770	.1717	.3303	.4746	.555	4.63	3.115
%RSD	636.9	206.1	128.7	88.20	41.63	36.81	378.1

#1	.3624	-.0551	-.1177	-.0558	1.869	-8.791	-1.895
#2	-.0955	.0295	.3807	-1.005	1.373	-17.72	4.222
#3	-.1364	.2755	.5072	-.5541	.7605	-11.17	.1440

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	5.000	10.00	100.0	150.0	300.0
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0498	.2359	57.82	.6686	.7189	2.032	-2.946
SDev	.0793	1.137	3.55	.8637	6.435	1.251	1.242
%RSD	159.2	482.1	6.135	129.2	895.1	61.55	42.17

#1	.0957	-.8670	61.20	.7124	-1.242	1.784	-3.108
#2	.0955	1.405	54.13	-.2162	7.906	3.389	-4.100
#3	-.0418	.1697	58.12	1.510	-4.507	.9240	-1.631

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.00	10.00	150.0	5.000	10.00	10.00	15.00
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.475	.2184	4.771	4.517	-.0898	.5808	8.255
SDev	1.861	.2199	3.688	20.15	.0776	.1995	2.779
%RSD	126.2	100.7	77.30	446.1	86.48	34.35	33.66

#1	.3241	.0696	4.274	19.29	-.1678	.7558	11.02
#2	-3.392	.4710	1.357	-18.44	-.0890	.6232	5.463
#3	-1.356	.1145	8.683	12.70	-.0125	.3635	8.281

High	10.00	5.000	20.00	50.00	10.00	10.00	150.0
Low	-10.00	-5.000	-20.00	-50.00	-10.00	-10.00	-150.0

Elem	Si_288	SiO2_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.585	18.30	.0588	-4.114	5.101	-6.944	-.9506
SDev	.967	2.09	.0277	1.052	1.360	.438	1.7571
%RSD	11.26	11.44	47.04	25.58	26.66	6.303	184.8

#1	7.486	15.92	.0710	-4.517	4.930	-7.400	-.9651
#2	8.967	19.16	.0784	-2.920	6.538	-6.903	-2.700
#3	9.302	19.83	.0272	-4.906	3.834	-6.528	.8138

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	100.0		10.00				
Low	-100.0		-10.00				

Method: TRACE2 Sample Name: 1201319903 Operator: HSC
 Run Time: 04/26/07 01:14:55
 Comment: 627449||6010 WATER
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	483.9	4959.	492.9	488.3	510.7	493.5	5052.
SDev	2.4	21.	2.9	3.6	1.9	2.1	21.
%RSD	.4962	.4149	.5892	.7327	.3740	.4187	.4164

#1	481.5	4936.	493.3	484.4	508.9	491.2	5029.
#2	484.0	4976.	495.6	491.4	512.7	495.3	5071.
#3	486.3	4966.	489.8	489.1	510.5	493.9	5055.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	489.4	498.3	491.3	495.5	5066.	4947.	5047.
SDev	.7	1.8	2.3	.9	30.	16.	19.
%RSD	.1460	.3557	.4732	.1874	.6000	.3267	.3829

#1	488.6	496.2	489.1	494.4	5042.	4929.	5027.
#2	489.7	499.3	493.7	496.1	5100.	4954.	5065.
#3	489.9	499.3	491.0	495.9	5056.	4959.	5048.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	503.8	499.6	5251.	489.5	497.0	496.6	490.1
SDev	2.5	1.9	24.	.9	3.6	3.8	5.5
%RSD	.4864	.3811	.4594	.1911	.7202	.7594	1.121

#1	501.4	497.6	5279.	489.4	495.0	495.1	485.5
#2	506.3	501.4	5238.	490.5	494.8	493.8	488.6
#3	503.5	499.7	5237.	488.7	501.1	500.9	496.2

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	505.7	492.8	475.0	500.2	501.5	504.5	511.7
SDev	4.2	1.9	5.7	25.8	1.9	2.1	1.3
%RSD	.8224	.3860	1.210	5.149	.3864	.4236	.2535

#1	500.9	490.8	471.2	511.2	499.6	502.4	511.9
#2	507.8	492.9	481.6	470.7	503.5	506.6	510.3
#3	508.3	494.6	472.2	518.5	501.5	504.4	512.9

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4870.	10400.	493.1	505.8	492.0	500.0	485.1
SDev	14.	30.	1.3	1.6	5.0	4.1	8.2
%RSD	.2856	.2853	.2677	.3070	1.007	.8263	1.699

#1	4854.	10360.	491.6	505.9	489.6	496.3	480.1
#2	4881.	10420.	493.7	504.2	488.6	504.4	480.7
#3	4874.	10410.	494.0	507.3	497.7	499.2	494.6

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: 184428008 Operator: HSC
 Run Time: 04/26/07 01:20:51
 Comment: 627449||6010 WATER
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.241	228.5	.5447	20.34	66.84	.0956	14960.
SDev	.403	3.8	3.503	.82	.27	.0357	44.
%RSD	32.48	1.646	643.1	4.023	.3976	37.41	.2925

#1	1.167	228.6	4.109	21.11	67.13	.1018	15000.
#2	.8792	232.3	.4180	20.43	66.60	.1277	14950.
#3	1.675	224.8	-2.893	19.48	66.78	.0571	14920.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3988	.9533	1.597	1.035	244.8	1115.	4117.
SDev	.4860	.2411	.511	1.146	.6	6.	13.
%RSD	121.9	25.29	31.97	110.8	.2618	.5509	.3175

#1	.5039	.8569	1.737	.1819	245.2	1116.	4130.
#2	.8236	1.228	2.022	2.337	245.2	1121.	4116.
#3	-.1312	.7753	1.031	.5847	244.1	1109.	4104.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.75	1.264	83720.	1.034	1.476	3.072	-3.509
SDev	.14	.040	488.	1.290	1.972	2.507	3.972
%RSD	.2908	3.125	.5833	124.8	133.6	81.63	113.2

#1	47.89	1.218	84240.	-.2209	2.086	3.803	-1.034
#2	47.76	1.286	83630.	2.357	3.070	.2799	-1.403
#3	47.61	1.287	83280.	.9658	-.7295	5.132	-8.090

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7341	6.139	2.091	11.24	1.575	4.488	52.26
SDev	2.348	.208	1.995	28.39	.479	.252	6.75
%RSD	319.9	3.382	95.38	252.6	30.44	5.611	12.91

#1	.5575	6.377	4.165	-10.68	2.112	4.735	58.87
#2	3.166	5.997	.1865	43.31	1.191	4.497	52.55
#3	-1.521	6.043	1.923	1.096	1.422	4.231	45.38

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5190.	11060.	69.67	-3.103	6.154	-7.690	-1.422
SDev	30.	63.	.39	.347	3.852	5.873	3.098
%RSD	.5713	.5691	.5669	11.19	62.59	76.37	217.9

#1	5224.	11130.	70.12	-2.824	7.111	-3.156	.0260
#2	5177.	11030.	69.38	-2.993	1.914	-5.590	.6872
#3	5170.	11020.	69.51	-3.491	9.437	-14.32	-4.978

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: 184428009 Operator: HSC
 Run Time: 04/26/07 01:26:47
 Comment: 627449||6010 WATER
 Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.168	439.5	-3.720	7.523	178.5	.3419	14690.
SDev	.454	2.3	1.300	1.192	.1	.0296	13.
%RSD	38.89	.5181	34.95	15.85	.0494	8.661	.0861

#1	1.064	437.9	-5.112	8.847	178.4	.3726	14690.
#2	.7748	438.6	-2.537	6.534	178.5	.3396	14670.
#3	1.665	442.1	-3.511	7.188	178.6	.3135	14690.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1000.	500000.	10000.	5000.	15000.	3000.	500000.
Low	-5.000	-200.0	-15.00	-50.00	-5.000	-5.000	-100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3863	11.83	.4271	.4726	36.42	414.3	5545.
SDev	.1513	.36	.5607	.6192	.27	4.4	5.
%RSD	39.17	3.031	131.3	131.0	.7334	1.067	.0976

#1	.2120	11.90	.0453	.3380	36.51	417.1	5549.
#2	.4837	11.44	.1651	1.148	36.12	409.2	5539.
#3	.4632	12.15	1.071	-.0683	36.62	416.6	5547.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	25000.	20000.	200000.	30000.	500000.
Low	-5.000	-5.000	-5.000	-10.00	-100.0	-150.0	-300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2083.	.0883	145000.	10.88	2.332	1.327	-.5131
SDev	6.	1.060	1646.	.34	2.950	.866	1.7167
%RSD	.2657	1201.	1.135	3.136	126.5	65.28	334.5

#1	2081.	-1.130	146100.	11.26	-.6472	.3270	1.352
#2	2079.	.8036	145900.	10.78	2.393	1.846	-2.027
#3	2090.	.5910	143100.	10.61	5.251	1.808	-.8639

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10000.	10000.	200000.	10000.	10000.	25000.	10000.
Low	-10.00	-10.00	-150.0	-5.000	-10.00	-10.00	-15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.5993	.7342	4.901	11.81	.4615	6.573	8.549
SDev	1.630	.1708	3.169	2.54	.5080	.047	13.96
%RSD	272.0	23.27	64.66	21.55	110.1	.7108	163.2

#1	-1.067	.7953	8.534	10.54	-.0339	6.588	24.27
#2	.6743	.5412	2.707	10.14	.4373	6.609	-2.377
#3	2.191	.8661	3.462	14.74	.9812	6.520	3.754

High	10000.	10000.	10000.	15000.	10000.	5000.	15000.
Low	-10.00	-5.000	-20.00	-50.00	-5.000	-10.00	-150.0

Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6286.	13400.	171.5	-3.287	3.631	-5.705	2.079
SDev	27.	59.	.2	1.556	.823	5.375	4.638
%RSD	.4356	.4381	.1018	47.35	22.68	94.22	223.1

#1	6298.	13420.	171.6	-4.699	2.836	-7.207	5.625
#2	6304.	13430.	171.7	-1.618	3.575	.2613	-3.170
#3	6254.	13330.	171.3	-3.545	4.480	-10.17	3.782

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	50000.		10000.				
Low	-100.0		-5.000				

Method: TRACE2 Sample Name: CCV1

Operator: HSC

Run Time: 04/26/07 02:08:14

Comment: 627449||6010 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	495.8	5408.	505.3	500.6	505.8	503.8	5353.
SDev	3.1	90.	5.4	3.4	3.0	2.5	76.
%RSD	.6247	1.669	1.060	.6718	.5904	.4956	1.411

#1	492.3	5318.	500.3	496.8	502.5	501.1	5275.
#2	498.2	5499.	504.6	503.2	506.9	504.3	5426.
#3	496.8	5407.	511.0	501.7	508.2	506.1	5358.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	5000.	500.0	500.0	500.0	500.0	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	500.7	508.9	508.8	504.5	5251.	5283.	5428.
SDev	1.7	3.2	3.8	2.2	59.	44.	74.
%RSD	.3452	.6193	.7467	.4285	1.132	.8289	1.366

#1	499.0	505.3	504.4	502.0	5184.	5235.	5357.
#2	500.8	510.9	510.6	505.9	5297.	5320.	Q5505.
#3	502.4	510.6	511.3	505.6	5272.	5295.	5421.

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	500.0	500.0	5000.	5000.	5000.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	512.7	516.6	10590.	501.9	502.6	509.5	514.1
SDev	3.7	6.7	52.	1.8	9.9	7.3	4.0
%RSD	.7181	1.303	.4932	.3654	1.973	1.437	.7823

#1	508.5	509.2	10530.	499.8	491.4	503.2	510.8
#2	514.4	522.5	10630.	502.7	506.2	517.5	518.5
#3	515.2	517.9	10610.	503.2	510.3	507.7	512.9

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0	500.0	10000.	500.0	500.0	500.0	500.0
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	513.2	497.8	492.1	495.9	513.2	513.0	2597.
SDev	5.3	2.4	4.4	15.3	4.4	3.4	37.
%RSD	1.025	.4758	.8917	3.090	.8647	.6658	1.443

#1	507.1	495.2	487.2	488.3	508.1	509.1	2555.
#2	516.4	498.7	493.5	513.5	516.3	514.8	2625.
#3	516.1	499.7	495.6	485.9	515.1	515.2	2613.

Value	500.0	500.0	500.0	500.0	500.0	500.0	2500.
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2478.	5301.	503.4	513.1	507.7	521.6	510.3
SDev	28.	59.	2.3	2.1	9.9	1.3	6.1
%RSD	1.114	1.111	.4656	.4123	1.956	.2554	1.189
#1	2448.	5237.	500.7	511.1	499.3	522.7	504.8
#2	2503.	5354.	504.8	515.3	518.6	522.0	516.8
#3	2482.	5311.	504.6	512.9	505.1	520.1	509.3
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	2500.		500.0				
Range	10.00		10.00				

Method: TRACE2 Sample Name: CCB1

Operator: HSC

Run Time: 04/26/07 02:14:09

Comment: 627449||6010 WATER

Mode: CONC Corr. Factor: 1

Elem	Ag_328	Al_308	As_189	B_2496	Ba_493	Be_313	Ca_317
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.322	70.05	-.2182	3.676	.5365	.3425	71.50
SDev	.446	16.86	1.9202	1.504	.0754	.0929	18.22
%RSD	33.73	24.07	880.0	40.92	14.06	27.11	25.49

#1	.8164	52.88	-.3127	5.299	.4494	.2535	56.36
#2	1.492	86.59	-2.089	3.401	.5826	.4388	91.73
#3	1.659	70.68	1.747	2.328	.5774	.3352	66.41

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	200.0	15.00	50.00	5.000	5.000	100.0

Elem	Cd_226	Co_228	Cr_267	Cu_324	Fe_	K_7664	Mg_279
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4088	.7808	1.126	.0141	29.38	-10.51	63.12
SDev	.1144	.6324	.454	.4763	7.59	6.29	16.55
%RSD	27.97	81.00	40.31	3374.	25.83	59.89	26.21

#1	.4786	.3388	.9701	.5324	22.58	-5.128	47.26
#2	.4709	.4984	.7709	-.4044	37.57	-17.42	80.28
#3	.2768	1.505	1.638	-.0856	27.98	-8.963	61.83

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	5.000	5.000	5.000	10.00	100.0	150.0	300.0

Elem	Mn_257	Mo_202	Na_	Ni_231	Sb_206	Pb_220	Se_196
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6050	.9232	-1.860	.2984	-.4156	2.667	-1.424
SDev	.1123	.2551	2.914	.1345	3.0231	1.930	1.498
%RSD	18.56	27.63	156.6	45.08	727.4	72.36	105.2

#1	.4781	.6575	1.404	.1458	-.0220	4.732	-.1829
#2	.6453	.9459	-2.787	.3998	-3.616	2.359	-3.087
#3	.6916	1.166	-4.198	.3495	2.391	.9098	-1.001

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	10.00	150.0	5.000	10.00	10.00	15.00

Elem	Sn_189	Ti_334	Tl_190	U_3859	V_2924	Zn_213	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.547	.7447	2.980	12.81	.9830	1.263	-.9710
SDev	2.116	.0828	3.850	17.10	.4370	.091	6.4440
%RSD	83.10	11.12	129.2	133.5	44.46	7.198	663.6

#1	.5250	.6608	4.352	19.86	.5133	1.162	4.263
#2	2.369	.8263	-1.367	-6.690	1.058	1.339	.9927
#3	4.746	.7472	5.956	25.24	1.378	1.286	-8.168

Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	10.00	5.000	20.00	50.00	5.000	10.00	150.0
Elem	Si_288	Si02_	Sr_421	Pb1st	Pb2nd	Se1st	Se2nd
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.562	16.15	.4614	-5.073	6.531	-6.169	.9451
SDev	11.16	23.78	.1153	2.353	2.615	4.024	4.230
%RSD	147.6	147.2	24.98	46.38	40.04	65.24	447.6
#1	20.37	43.44	.3448	-3.073	8.629	-10.12	4.776
#2	-.0914	-.1575	.5753	-7.665	7.364	-2.072	-3.594
#3	2.406	5.174	.4641	-4.481	3.601	-6.317	1.653
Errors	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0000		.0000				
Range	100.0		5.000				

=====
Analysis Begun

Start Time: 4/23/2007 17:18:24

Plasma On Time: 4/23/2007 08:46:28

Logged In Analyst: optimal

Technique: ICP Continuous

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

Sample Information File: C:\pe\optimal\Sample Information\042007.sif

Batch ID:

Results Data Set: 042307

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

=====
Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 4/23/2007 17:18:24

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc Radial	35409.0	35409.0	100	%	17:20:13
1	Y RADIAL	24616.4	24616.4	100.3	%	17:20:13
1	Al 396.153Radial†	-51.5	-51.3	[0.00]	ug/L	17:20:13
1	Ca 317.933Radial†	86.4	86.0	[0.00]	ug/L	17:20:33
1	Fe 238.204 Radial†	41.7	41.5	[0.00]	ug/L	17:20:33
1	K 766.490 Radial†	1015.8	1011.5	[0.00]	ug/L	17:20:13
1	Mg 279.077 IEC†	4.5	4.5	[0.00]	ug/L	17:20:33
1	Na 589.592 Radial†	176.2	175.5	[0.00]	ug/L	17:20:13
1	Sr 421.552†	353.6	352.1	[0.00]	ug/L	17:20:13
1	Sc 361.383	972088.3	972088.3	100.40	%	17:21:31
1	Y 371.029	674772.5	674772.5	100.25	%	17:21:31
1	Ag 328.068†	73.6	73.3	[0.00]	ug/L	17:21:37
1	As 188.979†	-15.6	-15.6	[0.00]	ug/L	17:21:57
1	B 249.677†	251.1	250.1	[0.00]	ug/L	17:21:57
1	Ba 233.527†	-16.2	-16.1	[0.00]	ug/L	17:21:57
1	Be 313.107†	-2903.3	-2891.7	[0.00]	ug/L	17:21:37
1	Cd 226.502†	-101.6	-101.2	[0.00]	ug/L	17:21:57
1	Co 228.616†	-29.7	-29.6	[0.00]	ug/L	17:21:57
1	Cr 267.716†	-32.8	-32.7	[0.00]	ug/L	17:21:57
1	Cu 324.752†	3179.7	3167.1	[0.00]	ug/L	17:21:37
1	Mn 257.610†	157.8	157.2	[0.00]	ug/L	17:21:57
1	Mo 202.031†	19.9	19.8	[0.00]	ug/L	17:21:57
1	Ni 231.604†	161.7	161.1	[0.00]	ug/L	17:21:57
1	P 214.914†	-172.9	-172.2	[0.00]	ug/L	17:21:57
1	Pb 220.353†	65.3	65.1	[0.00]	ug/L	17:21:57
1	S 181.975 Axial†	38.6	38.5	[0.00]	ug/L	17:21:57
1	Sb 206.836†	24.9	24.8	[0.00]	ug/L	17:21:57
1	Se 196.026†	-5.4	-5.3	[0.00]	ug/L	17:21:57
1	Si 251.611†	398.3	396.7	[0.00]	ug/L	17:21:57
1	Sn 189.927†	0.3	0.3	[0.00]	ug/L	17:21:57
1	Ti 334.940†	573.5	571.2	[0.00]	ug/L	17:21:37
1	Tl 190.801†	-33.4	-33.3	[0.00]	ug/L	17:21:57
1	U 409.014†	228.5	227.6	[0.00]	ug/L	17:21:37
1	V 292.402†	-326.1	-324.8	[0.00]	ug/L	17:21:37
1	Zn 213.857†	461.2	459.3	[0.00]	ug/L	17:21:57
1	SiO2†	408.3	406.7	[0.00]	ug/L	17:23:19
2	Sc Radial	35097.3	35097.3	99.5	%	17:20:38
2	Y RADIAL	24448.6	24448.6	99.57	%	17:20:38
2	Al 396.153Radial†	-35.8	-35.9	[0.00]	ug/L	17:20:38
2	Ca 317.933Radial†	64.6	64.9	[0.00]	ug/L	17:20:58
2	Fe 238.204 Radial†	43.2	43.4	[0.00]	ug/L	17:20:58
2	K 766.490 Radial†	1003.6	1008.2	[0.00]	ug/L	17:20:38
2	Mg 279.077 IEC†	3.7	3.7	[0.00]	ug/L	17:20:58
2	Na 589.592 Radial†	182.7	183.6	[0.00]	ug/L	17:20:38
2	Sr 421.552†	338.8	340.4	[0.00]	ug/L	17:20:38
2	Sc 361.383	960972.8	960972.8	99.251	%	17:22:02
2	Y 371.029	668791.8	668791.8	99.363	%	17:22:02

2	Ag 328.068†	50.4	50.7	[0.00]	ug/L	17:22:07
2	As 188.979†	-17.9	-18.0	[0.00]	ug/L	17:22:28
2	B 249.677†	265.6	267.6	[0.00]	ug/L	17:22:28
2	Ba 233.527†	-19.1	-19.3	[0.00]	ug/L	17:22:28
2	Be 313.107†	-2900.5	-2922.4	[0.00]	ug/L	17:22:07
2	Cd 226.502†	-94.5	-95.2	[0.00]	ug/L	17:22:28
2	Co 228.616†	-30.4	-30.6	[0.00]	ug/L	17:22:28
2	Cr 267.716†	-39.5	-39.8	[0.00]	ug/L	17:22:28
2	Cu 324.752†	3231.8	3256.2	[0.00]	ug/L	17:22:07
2	Mn 257.610†	141.6	142.6	[0.00]	ug/L	17:22:28
2	Mo 202.031†	17.9	18.0	[0.00]	ug/L	17:22:28
2	Ni 231.604†	152.7	153.8	[0.00]	ug/L	17:22:28
2	P 214.914†	-175.6	-177.0	[0.00]	ug/L	17:22:28
2	Pb 220.353†	74.5	75.1	[0.00]	ug/L	17:22:28
2	S 181.975 Axial†	35.3	35.6	[0.00]	ug/L	17:22:28
2	Sb 206.836†	27.1	27.3	[0.00]	ug/L	17:22:28
2	Se 196.026†	-10.9	-11.0	[0.00]	ug/L	17:22:28
2	Si 251.611†	397.9	400.9	[0.00]	ug/L	17:22:28
2	Sn 189.927†	0.7	0.7	[0.00]	ug/L	17:22:28
2	Ti 334.940†	558.3	562.5	[0.00]	ug/L	17:22:07
2	Tl 190.801†	-34.8	-35.1	[0.00]	ug/L	17:22:28
2	U 409.014†	105.6	106.4	[0.00]	ug/L	17:22:07
2	V 292.402†	-254.0	-255.9	[0.00]	ug/L	17:22:07
2	Zn 213.857†	455.7	459.1	[0.00]	ug/L	17:22:28
2	SiO2†	391.1	394.1	[0.00]	ug/L	17:23:39
3	Sc Radial	35271.5	35271.5	100	%	17:21:04
3	Y RADIAL	24599.6	24599.6	100.2	%	17:21:04
3	Al 396.153Radial†	-42.1	-42.1	[0.00]	ug/L	17:21:04
3	Ca 317.933Radial†	70.0	70.0	[0.00]	ug/L	17:21:24
3	Fe 238.204 Radial†	41.4	41.3	[0.00]	ug/L	17:21:24
3	K 766.490 Radial†	1039.4	1039.1	[0.00]	ug/L	17:21:04
3	Mg 279.077 IEC†	1.0	1.0	[0.00]	ug/L	17:21:24
3	Na 589.592 Radial†	102.5	102.5	[0.00]	ug/L	17:21:04
3	Sr 421.552†	365.9	365.8	[0.00]	ug/L	17:21:04
3	Sc 361.383	971613.3	971613.3	100.35	%	17:22:33
3	Y 371.029	675663.8	675663.8	100.38	%	17:22:33
3	Ag 328.068†	85.8	85.5	[0.00]	ug/L	17:22:38
3	As 188.979†	-21.6	-21.5	[0.00]	ug/L	17:22:58
3	B 249.677†	235.4	234.6	[0.00]	ug/L	17:22:58
3	Ba 233.527†	-17.6	-17.5	[0.00]	ug/L	17:22:58
3	Be 313.107†	-2922.9	-2912.8	[0.00]	ug/L	17:22:38
3	Cd 226.502†	-97.5	-97.1	[0.00]	ug/L	17:22:58
3	Co 228.616†	-24.2	-24.1	[0.00]	ug/L	17:22:58
3	Cr 267.716†	-40.2	-40.0	[0.00]	ug/L	17:22:58
3	Cu 324.752†	3286.0	3274.5	[0.00]	ug/L	17:22:38
3	Mn 257.610†	149.1	148.6	[0.00]	ug/L	17:22:58
3	Mo 202.031†	20.4	20.3	[0.00]	ug/L	17:22:58
3	Ni 231.604†	161.0	160.5	[0.00]	ug/L	17:22:58
3	P 214.914†	-167.5	-166.9	[0.00]	ug/L	17:22:58
3	Pb 220.353†	74.4	74.1	[0.00]	ug/L	17:22:58
3	S 181.975 Axial†	35.6	35.5	[0.00]	ug/L	17:22:58
3	Sb 206.836†	20.6	20.5	[0.00]	ug/L	17:22:58
3	Se 196.026†	-3.3	-3.3	[0.00]	ug/L	17:22:58
3	Si 251.611†	443.4	441.9	[0.00]	ug/L	17:22:58
3	Sn 189.927†	-1.4	-1.4	[0.00]	ug/L	17:22:58
3	Ti 334.940†	594.2	592.1	[0.00]	ug/L	17:22:38
3	Tl 190.801†	-38.9	-38.8	[0.00]	ug/L	17:22:58
3	U 409.014†	29.0	28.9	[0.00]	ug/L	17:22:38
3	V 292.402†	-241.0	-240.2	[0.00]	ug/L	17:22:38
3	Zn 213.857†	459.0	457.4	[0.00]	ug/L	17:22:58
3	SiO2†	407.9	406.5	[0.00]	ug/L	17:24:00

Mean Data: S0

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	968224.8	6284.93	0.65%	100.00	%
Sc Radial	35259.3	156.20	0.44%	100	%
Y 371.029	673076.0	3736.93	0.56%	100.00	%
Y RADIAL	24554.9	92.39	0.38%	100.0	%
Ag 328.068†	69.8	17.62	25.23%	[0.00]	ug/L

Al 396.153Radial†	-43.1	7.73	17.94%	[0.00]	ug/L
As 188.979†	-18.4	3.00	16.31%	[0.00]	ug/L
B 249.677†	250.8	16.49	6.58%	[0.00]	ug/L
Ba 233.527†	-17.6	1.60	9.05%	[0.00]	ug/L
Be 313.107†	-2909.0	15.69	0.54%	[0.00]	ug/L
Ca 317.933Radial†	73.6	11.03	14.98%	[0.00]	ug/L
Cd 226.502†	-97.9	3.08	3.14%	[0.00]	ug/L
Co 228.616†	-28.1	3.51	12.50%	[0.00]	ug/L
Cr 267.716†	-37.5	4.16	11.08%	[0.00]	ug/L
Cu 324.752†	3232.6	57.48	1.78%	[0.00]	ug/L
Fe 238.204 Radial†	42.1	1.11	2.63%	[0.00]	ug/L
K 766.490 Radial†	1019.6	16.94	1.66%	[0.00]	ug/L
Mg 279.077 IEC†	3.1	1.86	60.80%	[0.00]	ug/L
Mn 257.610†	149.5	7.33	4.90%	[0.00]	ug/L
Mo 202.031†	19.4	1.20	6.19%	[0.00]	ug/L
Na 589.592 Radial†	153.8	44.66	29.03%	[0.00]	ug/L
Ni 231.604†	158.5	4.05	2.55%	[0.00]	ug/L
P 214.914†	-172.0	5.02	2.92%	[0.00]	ug/L
Pb 220.353†	71.4	5.51	7.71%	[0.00]	ug/L
S 181.975 Axial†	36.5	1.70	4.65%	[0.00]	ug/L
Sb 206.836†	24.2	3.42	14.14%	[0.00]	ug/L
Se 196.026†	-6.5	3.98	60.80%	[0.00]	ug/L
Si 251.611†	413.2	24.97	6.04%	[0.00]	ug/L
Sn 189.927†	-0.1	1.09	801.11%	[0.00]	ug/L
Sr 421.552†	352.7	12.71	3.60%	[0.00]	ug/L
Ti 334.940†	575.3	15.23	2.65%	[0.00]	ug/L
Tl 190.801†	-35.7	2.79	7.83%	[0.00]	ug/L
U 409.014†	121.0	100.14	82.78%	[0.00]	ug/L
V 292.402†	-273.6	45.00	16.45%	[0.00]	ug/L
Zn 213.857†	458.6	1.08	0.24%	[0.00]	ug/L
SiO2†	402.4	7.23	1.80%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 4/23/2007 17:26:10
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	36131.0	36131.0	102	%	17:27:58
1	Y RADIAL	25007.4	25007.4	101.8	%	17:27:58
1	K 766.490 Radial†	7468.7	6268.9	[1000]	ug/L	17:27:58
1	Sr 421.552†	44470.3	43044.5	[100]	ug/L	17:27:58
1	Sc 361.383	981115.6	981115.6	101.33	%	17:28:17
1	Y 371.029	677799.5	677799.5	100.70	%	17:28:17
1	Ag 328.068†	14781.0	14517.0	[100]	ug/L	17:28:17
1	As 188.979†	192.9	208.8	[100]	ug/L	17:28:37
1	B 249.677†	3593.6	3295.7	[100]	ug/L	17:28:17
1	Ba 233.527†	6431.0	6364.1	[100]	ug/L	17:28:17
1	Be 313.107†	196420.4	196748.6	[100]	ug/L	17:28:17
1	Cd 226.502†	7224.2	7227.2	[100]	ug/L	17:28:17
1	Co 228.616†	3504.3	3486.4	[100]	ug/L	17:28:37
1	Cr 267.716†	6394.8	6348.3	[100]	ug/L	17:28:17
1	Cu 324.752†	21875.9	18355.8	[100]	ug/L	17:28:17
1	Mn 257.610†	47033.5	46266.0	[100]	ug/L	17:28:17
1	Mo 202.031†	2404.6	2353.6	[100]	ug/L	17:28:37
1	Ni 231.604†	3510.7	3306.2	[100]	ug/L	17:28:37
1	P 214.914†	442.9	609.1	[500]	ug/L	17:28:37
1	Pb 220.353†	902.9	819.6	[100]	ug/L	17:28:37
1	S 181.975 Axial†	232.3	192.7	[200]	ug/L	17:28:37
1	Sb 206.836†	274.5	246.7	[100]	ug/L	17:28:37
1	Se 196.026†	224.9	228.4	[100]	ug/L	17:28:37
1	Si 251.611†	10145.5	9599.1	[500]	ug/L	17:28:17
1	Sn 189.927†	790.7	780.5	[100]	ug/L	17:28:37
1	Ti 334.940†	59628.5	58269.8	[100]	ug/L	17:28:17
1	Tl 190.801†	197.2	230.3	[100]	ug/L	17:28:37
1	U 409.014†	2526.1	2372.0	[100]	ug/L	17:28:17
1	V 292.402†	11193.7	11320.2	[100]	ug/L	17:28:17
1	Zn 213.857†	9044.1	8466.6	[100]	ug/L	17:28:17
1	SiO2†	10242.4	9705.4	[1069.5]	ug/L	17:29:36
2	Sc Radial	36301.8	36301.8	103	%	17:28:03
2	Y RADIAL	25080.6	25080.6	102.1	%	17:28:03
2	K 766.490 Radial†	7510.8	6275.5	[1000]	ug/L	17:28:03
2	Sr 421.552†	44837.3	43196.8	[100]	ug/L	17:28:03
2	Sc 361.383	981017.8	981017.8	101.32	%	17:28:43
2	Y 371.029	678288.9	678288.9	100.77	%	17:28:43
2	Ag 328.068†	14850.7	14587.2	[100]	ug/L	17:28:43
2	As 188.979†	195.7	211.5	[100]	ug/L	17:29:04
2	B 249.677†	3591.1	3293.5	[100]	ug/L	17:28:43
2	Ba 233.527†	6479.9	6413.0	[100]	ug/L	17:28:43
2	Be 313.107†	197425.8	197760.3	[100]	ug/L	17:28:43
2	Cd 226.502†	7263.8	7267.0	[100]	ug/L	17:28:43
2	Co 228.616†	3533.5	3515.5	[100]	ug/L	17:29:04
2	Cr 267.716†	6389.7	6343.9	[100]	ug/L	17:28:43
2	Cu 324.752†	22032.1	18512.2	[100]	ug/L	17:28:43
2	Mn 257.610†	47161.2	46396.7	[100]	ug/L	17:28:43
2	Mo 202.031†	2428.5	2377.5	[100]	ug/L	17:29:04
2	Ni 231.604†	3533.1	3328.6	[100]	ug/L	17:29:04
2	P 214.914†	436.4	602.8	[500]	ug/L	17:29:04
2	Pb 220.353†	894.5	811.4	[100]	ug/L	17:29:04
2	S 181.975 Axial†	236.2	196.6	[200]	ug/L	17:29:04
2	Sb 206.836†	274.0	246.2	[100]	ug/L	17:29:04
2	Se 196.026†	220.0	223.6	[100]	ug/L	17:29:04
2	Si 251.611†	10229.3	9682.7	[500]	ug/L	17:28:43
2	Sn 189.927†	789.4	779.2	[100]	ug/L	17:29:04
2	Ti 334.940†	59859.1	58503.2	[100]	ug/L	17:28:43
2	Tl 190.801†	192.7	225.9	[100]	ug/L	17:29:04
2	U 409.014†	2474.0	2320.8	[100]	ug/L	17:28:43

2	V 292.402†	11181.3	11309.1	[100] ug/L	17:28:43
2	Zn 213.857†	9070.9	8494.0	[100] ug/L	17:28:43
2	SiO2†	10180.2	9645.0	[1069.5] ug/L	17:29:41
3	Sc Radial	36271.9	36271.9	103 %	17:28:08
3	Y RADIAL	25165.4	25165.4	102.5 %	17:28:08
3	K 766.490 Radial†	7449.3	6221.7	[1000] ug/L	17:28:08
3	Sr 421.552†	44859.9	43254.7	[100] ug/L	17:28:08
3	Sc 361.383	981594.8	981594.8	101.38 %	17:29:10
3	Y 371.029	678557.6	678557.6	100.81 %	17:29:10
3	Ag 328.068†	14806.2	14534.7	[100] ug/L	17:29:10
3	As 188.979†	196.0	211.7	[100] ug/L	17:29:30
3	B 249.677†	3619.2	3319.1	[100] ug/L	17:29:10
3	Ba 233.527†	6484.4	6413.7	[100] ug/L	17:29:10
3	Be 313.107†	197494.5	197713.5	[100] ug/L	17:29:10
3	Cd 226.502†	7267.7	7266.6	[100] ug/L	17:29:10
3	Co 228.616†	3520.8	3501.0	[100] ug/L	17:29:30
3	Cr 267.716†	6452.1	6401.7	[100] ug/L	17:29:10
3	Cu 324.752†	22025.9	18493.3	[100] ug/L	17:29:10
3	Mn 257.610†	47312.9	46518.9	[100] ug/L	17:29:10
3	Mo 202.031†	2418.9	2366.5	[100] ug/L	17:29:30
3	Ni 231.604†	3527.4	3320.9	[100] ug/L	17:29:30
3	P 214.914†	440.8	606.8	[500] ug/L	17:29:30
3	Pb 220.353†	888.9	805.4	[100] ug/L	17:29:30
3	S 181.975 Axial†	235.6	195.9	[200] ug/L	17:29:30
3	Sb 206.836†	279.1	251.0	[100] ug/L	17:29:30
3	Se 196.026†	224.6	228.1	[100] ug/L	17:29:30
3	Si 251.611†	10230.6	9678.1	[500] ug/L	17:29:10
3	Sn 189.927†	798.4	787.6	[100] ug/L	17:29:30
3	Ti 334.940†	59740.8	58351.8	[100] ug/L	17:29:10
3	Tl 190.801†	193.4	226.5	[100] ug/L	17:29:30
3	U 409.014†	2524.1	2368.8	[100] ug/L	17:29:10
3	V 292.402†	11201.6	11322.7	[100] ug/L	17:29:10
3	Zn 213.857†	9060.1	8478.0	[100] ug/L	17:29:10
3	SiO2†	10111.5	9571.4	[1069.5] ug/L	17:29:46

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	981242.7	308.76	0.03%	101.34	%
Sc Radial	36234.9	91.22	0.25%	103	%
Y 371.029	678215.4	384.38	0.06%	100.76	%
Y RADIAL	25084.5	79.09	0.32%	102.2	%
Ag 328.068†	14546.3	36.52	0.25%	[100]	ug/L
As 188.979†	210.7	1.66	0.79%	[100]	ug/L
B 249.677†	3302.8	14.19	0.43%	[100]	ug/L
Ba 233.527†	6397.0	28.44	0.44%	[100]	ug/L
Be 313.107†	197407.5	571.03	0.29%	[100]	ug/L
Cd 226.502†	7253.6	22.87	0.32%	[100]	ug/L
Co 228.616†	3501.0	14.59	0.42%	[100]	ug/L
Cr 267.716†	6364.7	32.16	0.51%	[100]	ug/L
Cu 324.752†	18453.8	85.34	0.46%	[100]	ug/L
K 766.490 Radial†	6255.4	29.37	0.47%	[1000]	ug/L
Mn 257.610†	46393.9	126.48	0.27%	[100]	ug/L
Mo 202.031†	2365.9	11.97	0.51%	[100]	ug/L
Ni 231.604†	3318.6	11.40	0.34%	[100]	ug/L
P 214.914†	606.2	3.21	0.53%	[500]	ug/L
Pb 220.353†	812.1	7.17	0.88%	[100]	ug/L
S 181.975 Axial†	195.1	2.06	1.06%	[200]	ug/L
Sb 206.836†	248.0	2.68	1.08%	[100]	ug/L
Se 196.026†	226.7	2.68	1.18%	[100]	ug/L
Si 251.611†	9653.3	47.02	0.49%	[500]	ug/L
Sn 189.927†	782.5	4.53	0.58%	[100]	ug/L
Sr 421.552†	43165.4	108.57	0.25%	[100]	ug/L
Ti 334.940†	58374.9	118.44	0.20%	[100]	ug/L
Tl 190.801†	227.6	2.39	1.05%	[100]	ug/L
U 409.014†	2353.9	28.66	1.22%	[100]	ug/L
V 292.402†	11317.4	7.22	0.06%	[100]	ug/L
Zn 213.857†	8479.6	13.77	0.16%	[100]	ug/L
SiO2†	9640.6	67.15	0.70%	[1069.5]	ug/L

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

Autosampler Location: 3
 Date Collected: 4/23/2007 17:32:01
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	36467.6	36467.6	103	%	17:33:50
1	Y RADIAL	25191.0	25191.0	102.6	%	17:33:50
1	Al 396.153Radial†	11007.5	10685.9	[5000]	ug/L	17:33:50
1	Ca 317.933Radial†	7660.6	7333.2	[5000]	ug/L	17:33:50
1	K 766.490 Radial†	31141.1	29089.7	[5000]	ug/L	17:33:50
1	Mg 279.077 IEC†	336.5	322.2	[5000]	ug/L	17:34:10
1	Sr 421.552†	219795.9	212160.3	[500]	ug/L	17:33:50
1	Sc 361.383	995746.2	995746.2	102.84	%	17:35:10
1	Y 371.029	683149.8	683149.8	101.50	%	17:35:10
1	Ag 328.068†	70516.2	68497.4	[500]	ug/L	17:35:16
1	As 188.979†	1042.0	1031.5	[500]	ug/L	17:35:36
1	B 249.677†	16664.0	15952.7	[500]	ug/L	17:35:16
1	Ba 233.527†	31189.6	30345.2	[500]	ug/L	17:35:16
1	Be 313.107†	972468.0	948499.0	[500]	ug/L	17:35:10
1	Cd 226.502†	35067.4	34196.0	[500]	ug/L	17:35:16
1	Co 228.616†	17235.6	16787.3	[500]	ug/L	17:35:16
1	Cr 267.716†	31009.8	30190.2	[500]	ug/L	17:35:16
1	Cu 324.752†	93362.6	87549.5	[500]	ug/L	17:35:16
1	Mn 257.610†	222718.1	216412.9	[500]	ug/L	17:35:16
1	Mo 202.031†	11747.5	11403.4	[500]	ug/L	17:35:36
1	Ni 231.604†	16350.3	15739.9	[500]	ug/L	17:35:16
1	P 214.914†	2817.7	2911.8	[2500]	ug/L	17:35:36
1	Pb 220.353†	4029.5	3846.7	[500]	ug/L	17:35:36
1	S 181.975 Axial†	1031.9	966.8	[1000]	ug/L	17:35:36
1	Sb 206.836†	1289.6	1229.7	[500]	ug/L	17:35:36
1	Se 196.026†	1132.3	1107.5	[500]	ug/L	17:35:36
1	Si 251.611†	47705.6	45973.9	[2500]	ug/L	17:35:16
1	Sn 189.927†	3877.1	3770.1	[500]	ug/L	17:35:36
1	Ti 334.940†	282176.8	273802.5	[500]	ug/L	17:35:16
1	Tl 190.801†	1088.4	1094.0	[500]	ug/L	17:35:36
1	U 409.014†	10664.9	10249.2	[500]	ug/L	17:35:16
1	V 292.402†	55330.1	54074.4	[500]	ug/L	17:35:16
1	Zn 213.857†	41648.6	40038.9	[500]	ug/L	17:35:16
1	SiO2†	48809.4	47057.9	[5347.5]	ug/L	17:36:46
2	Sc Radial	36626.8	36626.8	104	%	17:34:16
2	Y RADIAL	25273.2	25273.2	102.9	%	17:34:16
2	Al 396.153Radial†	11067.0	10697.0	[5000]	ug/L	17:34:16
2	Ca 317.933Radial†	7702.5	7341.3	[5000]	ug/L	17:34:16
2	K 766.490 Radial†	31117.5	28936.1	[5000]	ug/L	17:34:16
2	Mg 279.077 IEC†	329.2	313.8	[5000]	ug/L	17:34:36
2	Sr 421.552†	219963.9	211398.6	[500]	ug/L	17:34:16
2	Sc 361.383	992433.6	992433.6	102.50	%	17:35:42
2	Y 371.029	680578.5	680578.5	101.11	%	17:35:42
2	Ag 328.068†	71504.8	69690.7	[500]	ug/L	17:35:48
2	As 188.979†	1046.0	1038.9	[500]	ug/L	17:36:08
2	B 249.677†	16943.6	16279.6	[500]	ug/L	17:35:48
2	Ba 233.527†	31688.7	30933.4	[500]	ug/L	17:35:48
2	Be 313.107†	980947.7	959928.1	[500]	ug/L	17:35:42
2	Cd 226.502†	35648.1	34876.3	[500]	ug/L	17:35:48
2	Co 228.616†	17459.2	17061.4	[500]	ug/L	17:35:48
2	Cr 267.716†	31436.7	30707.3	[500]	ug/L	17:35:48
2	Cu 324.752†	94418.7	88882.9	[500]	ug/L	17:35:48
2	Mn 257.610†	225527.7	219876.8	[500]	ug/L	17:35:48
2	Mo 202.031†	11808.4	11501.0	[500]	ug/L	17:36:08
2	Ni 231.604†	16524.6	15963.0	[500]	ug/L	17:35:48
2	P 214.914†	2834.8	2937.7	[2500]	ug/L	17:36:08
2	Pb 220.353†	4041.6	3871.6	[500]	ug/L	17:36:08
2	S 181.975 Axial†	1037.4	975.6	[1000]	ug/L	17:36:08
2	Sb 206.836†	1284.8	1229.3	[500]	ug/L	17:36:08

2	Se 196.026†	1136.4	1115.3	[500] ug/L	17:36:08
2	Si 251.611†	48340.9	46748.5	[2500] ug/L	17:35:48
2	Sn 189.927†	3906.1	3810.9	[500] ug/L	17:36:08
2	Ti 334.940†	285972.0	278420.9	[500] ug/L	17:35:48
2	Tl 190.801†	1090.2	1099.3	[500] ug/L	17:36:08
2	U 409.014†	10701.1	10319.1	[500] ug/L	17:35:48
2	V 292.402†	56132.6	55036.9	[500] ug/L	17:35:48
2	Zn 213.857†	42233.3	40744.4	[500] ug/L	17:35:48
2	SiO2†	48734.5	47143.3	[5347.5] ug/L	17:36:51
3	Sc Radial	36394.1	36394.1	103 %	17:34:41
3	Y RADIAL	25021.6	25021.6	101.9 %	17:34:41
3	Al 396.153Radial†	10971.9	10672.9	[5000] ug/L	17:34:41
3	Ca 317.933Radial†	7602.2	7291.5	[5000] ug/L	17:34:41
3	K 766.490 Radial†	30910.1	28926.7	[5000] ug/L	17:34:41
3	Mg 279.077 IEC†	328.4	315.1	[5000] ug/L	17:35:02
3	Sr 421.552†	218340.0	211178.7	[500] ug/L	17:34:41
3	Sc 361.383	996009.7	996009.7	102.87 %	17:36:14
3	Y 371.029	683988.6	683988.6	101.62 %	17:36:14
3	Ag 328.068†	71105.3	69051.9	[500] ug/L	17:36:20
3	As 188.979†	1052.6	1041.6	[500] ug/L	17:36:40
3	B 249.677†	16877.1	16155.6	[500] ug/L	17:36:20
3	Ba 233.527†	31605.2	30741.2	[500] ug/L	17:36:20
3	Be 313.107†	985036.5	960466.7	[500] ug/L	17:36:14
3	Cd 226.502†	35604.8	34709.4	[500] ug/L	17:36:20
3	Co 228.616†	17434.2	16975.9	[500] ug/L	17:36:20
3	Cr 267.716†	31301.0	30465.3	[500] ug/L	17:36:20
3	Cu 324.752†	93902.9	88050.8	[500] ug/L	17:36:20
3	Mn 257.610†	224641.7	218225.6	[500] ug/L	17:36:20
3	Mo 202.031†	11860.4	11510.1	[500] ug/L	17:36:40
3	Ni 231.604†	16513.1	15894.0	[500] ug/L	17:36:20
3	P 214.914†	2854.2	2946.6	[2500] ug/L	17:36:40
3	Pb 220.353†	4075.7	3890.6	[500] ug/L	17:36:40
3	S 181.975 Axial†	1041.0	975.5	[1000] ug/L	17:36:40
3	Sb 206.836†	1286.0	1225.9	[500] ug/L	17:36:40
3	Se 196.026†	1145.2	1119.8	[500] ug/L	17:36:40
3	Si 251.611†	48161.3	46404.7	[2500] ug/L	17:36:20
3	Sn 189.927†	3908.5	3799.6	[500] ug/L	17:36:40
3	Ti 334.940†	284689.8	276172.7	[500] ug/L	17:36:20
3	Tl 190.801†	1090.6	1095.9	[500] ug/L	17:36:40
3	U 409.014†	10694.3	10275.0	[500] ug/L	17:36:20
3	V 292.402†	55849.0	54564.6	[500] ug/L	17:36:20
3	Zn 213.857†	42147.8	40513.4	[500] ug/L	17:36:20
3	SiO2†	48844.2	47079.2	[5347.5] ug/L	17:36:57

Mean Data: S0.5

Analyte	Mean Corrected			Conc.	Calib Units
	Intensity	Std.Dev.	RSD		
Sc 361.383	994729.8	1992.93	0.20%	102.74	%
Sc Radial	36496.2	118.91	0.33%	104	%
Y 371.029	682572.3	1776.91	0.26%	101.41	%
Y RADIAL	25161.9	128.32	0.51%	102.5	%
Ag 328.068†	69080.0	597.18	0.86%	[500]	ug/L
Al 396.153Radial†	10685.3	12.03	0.11%	[5000]	ug/L
As 188.979†	1037.3	5.22	0.50%	[500]	ug/L
B 249.677†	16129.3	165.02	1.02%	[500]	ug/L
Ba 233.527†	30673.2	299.91	0.98%	[500]	ug/L
Be 313.107†	956297.9	6759.43	0.71%	[500]	ug/L
Ca 317.933Radial†	7322.0	26.71	0.36%	[5000]	ug/L
Cd 226.502†	34593.9	354.56	1.02%	[500]	ug/L
Co 228.616†	16941.5	140.27	0.83%	[500]	ug/L
Cr 267.716†	30454.3	258.73	0.85%	[500]	ug/L
Cu 324.752†	88161.1	673.48	0.76%	[500]	ug/L
K 766.490 Radial†	28984.1	91.51	0.32%	[5000]	ug/L
Mg 279.077 IEC†	317.0	4.55	1.43%	[5000]	ug/L
Mn 257.610†	218171.8	1732.56	0.79%	[500]	ug/L
Mo 202.031†	11471.5	59.14	0.52%	[500]	ug/L
Ni 231.604†	15865.6	114.22	0.72%	[500]	ug/L
P 214.914†	2932.0	18.06	0.62%	[2500]	ug/L
Pb 220.353†	3869.6	22.03	0.57%	[500]	ug/L
S 181.975 Axial†	972.6	5.02	0.52%	[1000]	ug/L

Sb 206.836†	1228.3	2.10	0.17%	[500]	ug/L
Se 196.026†	1114.2	6.22	0.56%	[500]	ug/L
Si 251.611†	46375.7	388.11	0.84%	[2500]	ug/L
Sn 189.927†	3793.5	21.07	0.56%	[500]	ug/L
Sr 421.552†	211579.2	515.11	0.24%	[500]	ug/L
Ti 334.940†	276132.0	2309.47	0.84%	[500]	ug/L
Tl 190.801†	1096.4	2.70	0.25%	[500]	ug/L
U 409.014†	10281.1	35.36	0.34%	[500]	ug/L
V 292.402†	54558.7	481.28	0.88%	[500]	ug/L
Zn 213.857†	40432.2	359.71	0.89%	[500]	ug/L
SiO2†	47093.5	44.46	0.09%	[5347.5]	ug/L

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

Autosampler Location: 4
 Date Collected: 4/23/2007 17:39:08
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	35915.1	35915.1	102	%	17:40:53
1	Y RADIAL	24732.5	24732.5	100.7	%	17:40:53
1	Al 396.153Radial†	21967.9	21609.9	[10000]	ug/L	17:40:53
1	Ca 317.933Radial†	15140.4	14790.3	[10000]	ug/L	17:40:53
1	Fe 238.204 Radial†	986.1	926.0	[10000]	ug/L	17:41:13
1	K 766.490 Radial†	59786.8	57675.4	[10000]	ug/L	17:40:53
1	Mg 279.077 IEC†	655.8	640.8	[10000]	ug/L	17:41:13
1	Na 589.592 Radial†	134543.3	131932.5	[10000]	ug/L	17:40:53
1	Sr 421.552†	435503.0	427197.2	[1000]	ug/L	17:40:53
1	Sc 361.383	976488.9	976488.9	100.85	%	17:42:18
1	Y 371.029	668763.9	668763.9	99.359	%	17:42:18
1	Ag 328.068†	142358.3	141083.7	[1000]	ug/L	17:42:18
1	As 188.979†	2098.1	2098.7	[1000]	ug/L	17:42:38
1	B 249.677†	33544.3	33009.6	[1000]	ug/L	17:42:18
1	Ba 233.527†	62700.5	62187.5	[1000]	ug/L	17:42:18
1	Be 313.107†	1936619.7	1923138.9	[1000]	ug/L	17:42:18
1	Cd 226.502†	70084.9	69589.7	[1000]	ug/L	17:42:18
1	Co 228.616†	34007.6	33747.9	[1000]	ug/L	17:42:38
1	Cr 267.716†	62174.4	61685.7	[1000]	ug/L	17:42:18
1	Cu 324.752†	185784.9	180980.0	[1000]	ug/L	17:42:18
1	Mn 257.610†	449658.7	445703.8	[1000]	ug/L	17:42:18
1	Mo 202.031†	23463.9	23246.0	[1000]	ug/L	17:42:38
1	Ni 231.604†	32092.5	31662.4	[1000]	ug/L	17:42:38
1	P 214.914†	5824.8	5947.6	[5000]	ug/L	17:42:38
1	Pb 220.353†	7953.9	7815.2	[1000]	ug/L	17:42:38
1	S 181.975 Axial†	2038.3	1984.5	[2000]	ug/L	17:42:38
1	Sb 206.836†	2534.1	2488.4	[1000]	ug/L	17:42:38
1	Se 196.026†	2264.6	2252.0	[1000]	ug/L	17:42:38
1	Si 251.611†	95747.0	94523.5	[5000]	ug/L	17:42:18
1	Sn 189.927†	7821.3	7755.2	[1000]	ug/L	17:42:38
1	Ti 334.940†	578592.4	573120.5	[1000]	ug/L	17:42:18
1	Tl 190.801†	2204.2	2221.2	[1000]	ug/L	17:42:38
1	U 409.014†	20410.9	20117.2	[1000]	ug/L	17:42:18
1	V 292.402†	111941.9	111268.2	[1000]	ug/L	17:42:18
1	Zn 213.857†	82834.6	81675.0	[1000]	ug/L	17:42:18
1	SiO2†	95731.5	94518.9	[10695]	ug/L	17:43:45
2	Sc Radial	35989.6	35989.6	102	%	17:41:19
2	Y RADIAL	24832.8	24832.8	101.1	%	17:41:19
2	Al 396.153Radial†	22053.7	21649.2	[10000]	ug/L	17:41:19
2	Ca 317.933Radial†	15191.9	14809.9	[10000]	ug/L	17:41:19
2	Fe 238.204 Radial†	974.4	912.6	[10000]	ug/L	17:41:39
2	K 766.490 Radial†	59872.8	57638.2	[10000]	ug/L	17:41:19
2	Mg 279.077 IEC†	659.2	642.7	[10000]	ug/L	17:41:39
2	Na 589.592 Radial†	135043.7	132149.2	[10000]	ug/L	17:41:19
2	Sr 421.552†	436967.6	427746.9	[1000]	ug/L	17:41:19
2	Sc 361.383	974281.3	974281.3	100.63	%	17:42:48
2	Y 371.029	667694.0	667694.0	99.200	%	17:42:48
2	Ag 328.068†	142062.4	141109.5	[1000]	ug/L	17:42:48
2	As 188.979†	2093.7	2099.1	[1000]	ug/L	17:43:09
2	B 249.677†	33515.8	33056.7	[1000]	ug/L	17:42:48
2	Ba 233.527†	62512.0	62141.0	[1000]	ug/L	17:42:48
2	Be 313.107†	1930570.4	1921478.1	[1000]	ug/L	17:42:48
2	Cd 226.502†	69835.6	69499.4	[1000]	ug/L	17:42:48
2	Co 228.616†	34002.7	33819.4	[1000]	ug/L	17:43:09
2	Cr 267.716†	61993.0	61645.2	[1000]	ug/L	17:42:48
2	Cu 324.752†	185653.8	181267.1	[1000]	ug/L	17:42:48
2	Mn 257.610†	447570.7	444638.9	[1000]	ug/L	17:42:48
2	Mo 202.031†	23472.2	23306.9	[1000]	ug/L	17:43:09
2	Ni 231.604†	32082.8	31724.9	[1000]	ug/L	17:43:09

2	P 214.914†	5823.3	5959.1	[5000]	ug/L	17:43:09
2	Pb 220.353†	7931.0	7810.3	[1000]	ug/L	17:43:09
2	S 181.975 Axial†	2035.0	1985.8	[2000]	ug/L	17:43:09
2	Sb 206.836†	2527.0	2487.1	[1000]	ug/L	17:43:09
2	Se 196.026†	2254.4	2247.0	[1000]	ug/L	17:43:09
2	Si 251.611†	95559.9	94552.7	[5000]	ug/L	17:42:48
2	Sn 189.927†	7825.3	7776.8	[1000]	ug/L	17:43:09
2	Ti 334.940†	576931.8	572770.0	[1000]	ug/L	17:42:48
2	Tl 190.801†	2195.2	2217.3	[1000]	ug/L	17:43:09
2	U 409.014†	20458.2	20210.0	[1000]	ug/L	17:42:48
2	V 292.402†	111568.7	111148.8	[1000]	ug/L	17:42:48
2	Zn 213.857†	82614.4	81642.2	[1000]	ug/L	17:42:48
2	SiO2†	95325.2	94330.2	[10695]	ug/L	17:43:50
3	Sc Radial	35895.3	35895.3	102	%	17:41:45
3	Y RADIAL	24817.4	24817.4	101.1	%	17:41:45
3	Al 396.153Radial†	21980.7	21634.4	[10000]	ug/L	17:41:45
3	Ca 317.933Radial†	15208.0	14865.0	[10000]	ug/L	17:41:45
3	Fe 238.204 Radial†	978.8	919.4	[10000]	ug/L	17:42:05
3	K 766.490 Radial†	59799.8	57720.6	[10000]	ug/L	17:41:45
3	Mg 279.077 IEC†	653.8	639.1	[10000]	ug/L	17:42:05
3	Na 589.592 Radial†	134662.2	132122.4	[10000]	ug/L	17:41:45
3	Sr 421.552†	435469.2	427400.7	[1000]	ug/L	17:41:45
3	Sc 361.383	972650.2	972650.2	100.46	%	17:43:19
3	Y 371.029	665759.4	665759.4	98.913	%	17:43:19
3	Ag 328.068†	141653.3	140939.0	[1000]	ug/L	17:43:19
3	As 188.979†	2090.9	2099.8	[1000]	ug/L	17:43:39
3	B 249.677†	33452.4	33049.4	[1000]	ug/L	17:43:19
3	Ba 233.527†	62409.0	62142.7	[1000]	ug/L	17:43:19
3	Be 313.107†	1926871.9	1921013.9	[1000]	ug/L	17:43:19
3	Cd 226.502†	69724.2	69504.8	[1000]	ug/L	17:43:19
3	Co 228.616†	34006.4	33879.8	[1000]	ug/L	17:43:39
3	Cr 267.716†	61874.3	61630.3	[1000]	ug/L	17:43:19
3	Cu 324.752†	185085.4	181010.7	[1000]	ug/L	17:43:19
3	Mn 257.610†	447109.2	444925.4	[1000]	ug/L	17:43:19
3	Mo 202.031†	23456.1	23330.0	[1000]	ug/L	17:43:39
3	Ni 231.604†	32080.1	31775.7	[1000]	ug/L	17:43:39
3	P 214.914†	5828.2	5973.7	[5000]	ug/L	17:43:39
3	Pb 220.353†	7953.6	7846.0	[1000]	ug/L	17:43:39
3	S 181.975 Axial†	2036.2	1990.4	[2000]	ug/L	17:43:39
3	Sb 206.836†	2531.4	2495.7	[1000]	ug/L	17:43:39
3	Se 196.026†	2254.1	2250.4	[1000]	ug/L	17:43:39
3	Si 251.611†	95297.8	94451.0	[5000]	ug/L	17:43:19
3	Sn 189.927†	7815.5	7780.1	[1000]	ug/L	17:43:39
3	Ti 334.940†	575736.9	572542.1	[1000]	ug/L	17:43:19
3	Tl 190.801†	2193.4	2219.1	[1000]	ug/L	17:43:39
3	U 409.014†	20332.5	20119.0	[1000]	ug/L	17:43:19
3	V 292.402†	111324.7	111091.8	[1000]	ug/L	17:43:19
3	Zn 213.857†	82384.7	81551.2	[1000]	ug/L	17:43:19
3	SiO2†	96434.1	95592.9	[10695]	ug/L	17:43:55

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	974473.5	1926.55	0.20%	100.65	%
Sc Radial	35933.3	49.76	0.14%	102	%
Y 371.029	667405.8	1522.84	0.23%	99.158	%
Y RADIAL	24794.2	54.01	0.22%	101.0	%
Ag 328.068†	141044.1	91.90	0.07%	[1000]	ug/L
Al 396.153Radial†	21631.2	19.88	0.09%	[10000]	ug/L
As 188.979†	2099.2	0.52	0.02%	[1000]	ug/L
B 249.677†	33038.6	25.33	0.08%	[1000]	ug/L
Ba 233.527†	62157.1	26.34	0.04%	[1000]	ug/L
Be 313.107†	1921877.0	1117.25	0.06%	[1000]	ug/L
Ca 317.933Radial†	14821.7	38.70	0.26%	[10000]	ug/L
Cd 226.502†	69531.3	50.63	0.07%	[1000]	ug/L
Co 228.616†	33815.7	66.05	0.20%	[1000]	ug/L
Cr 267.716†	61653.7	28.67	0.05%	[1000]	ug/L
Cu 324.752†	181085.9	157.65	0.09%	[1000]	ug/L
Fe 238.204 Radial†	919.3	6.71	0.73%	[10000]	ug/L
K 766.490 Radial†	57678.0	41.30	0.07%	[10000]	ug/L

Mg 279.077 IEC†	640.9	1.79	0.28%	[10000]	ug/L
Mn 257.610†	445089.4	551.03	0.12%	[1000]	ug/L
Mo 202.031†	23294.3	43.44	0.19%	[1000]	ug/L
Na 589.592 Radial†	132068.0	118.13	0.09%	[10000]	ug/L
Ni 231.604†	31721.0	56.73	0.18%	[1000]	ug/L
P 214.914†	5960.1	13.08	0.22%	[5000]	ug/L
Pb 220.353†	7823.8	19.37	0.25%	[1000]	ug/L
S 181.975 Axial†	1986.9	3.07	0.15%	[2000]	ug/L
Sb 206.836†	2490.4	4.62	0.19%	[1000]	ug/L
Se 196.026†	2249.8	2.59	0.11%	[1000]	ug/L
Si 251.611†	94509.1	52.35	0.06%	[5000]	ug/L
Sn 189.927†	7770.7	13.51	0.17%	[1000]	ug/L
Sr 421.552†	427448.3	277.90	0.07%	[1000]	ug/L
Ti 334.940†	572810.9	291.33	0.05%	[1000]	ug/L
Tl 190.801†	2219.2	1.98	0.09%	[1000]	ug/L
U 409.014†	20148.8	53.08	0.26%	[1000]	ug/L
V 292.402†	111169.6	90.01	0.08%	[1000]	ug/L
Zn 213.857†	81622.8	64.13	0.08%	[1000]	ug/L
SiO2†	94814.0	681.10	0.72%	[10695]	ug/L

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

Autosampler Location: 5
 Date Collected: 4/23/2007 17:46:13
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	34977.9	34977.9	99.2 %		17:48:18
1	Y RADIAL	24199.0	24199.0	98.55 %		17:48:18
1	Al 396.153Radial†	107198.7	108104.1	[50000] ug/L		17:47:57
1	Ca 317.933Radial†	72195.0	72702.1	[50000] ug/L		17:47:57
1	Fe 238.204 Radial†	1840.9	1813.6	[20000] ug/L		17:48:18
1	Mg 279.077 IEC†	3106.6	3128.5	[50000] ug/L		17:48:18
1	Na 589.592 Radial†	258399.1	260323.6	[20000] ug/L		17:47:57
1	Sc 361.383	963724.8	963724.8	99.535 %		17:49:35
1	Y 371.029	656725.1	656725.1	97.571 %		17:49:35
2	Sc Radial	35012.9	35012.9	99.3 %		17:48:43
2	Y RADIAL	24203.2	24203.2	98.57 %		17:48:43
2	Al 396.153Radial†	108668.3	109476.0	[50000] ug/L		17:48:23
2	Ca 317.933Radial†	73046.1	73486.4	[50000] ug/L		17:48:23
2	Fe 238.204 Radial†	1828.8	1799.5	[20000] ug/L		17:48:43
2	Mg 279.077 IEC†	3104.6	3123.3	[50000] ug/L		17:48:43
2	Na 589.592 Radial†	261861.2	263549.6	[20000] ug/L		17:48:23
2	Sc 361.383	974288.3	974288.3	100.63 %		17:49:41
2	Y 371.029	663749.9	663749.9	98.614 %		17:49:41
3	Sc Radial	35173.0	35173.0	99.8 %		17:49:14
3	Y RADIAL	24314.7	24314.7	99.02 %		17:49:14
3	Al 396.153Radial†	108314.6	108623.2	[50000] ug/L		17:48:49
3	Ca 317.933Radial†	72625.3	72729.7	[50000] ug/L		17:48:49
3	Fe 238.204 Radial†	1846.3	1808.7	[20000] ug/L		17:49:14
3	Mg 279.077 IEC†	3111.2	3115.7	[50000] ug/L		17:49:14
3	Na 589.592 Radial†	260978.2	261464.1	[20000] ug/L		17:48:49
3	Sc 361.383	971288.3	971288.3	100.32 %		17:49:48
3	Y 371.029	661231.7	661231.7	98.240 %		17:49:48

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	969767.1	5443.60	0.56%	100.16 %	
Sc Radial	35054.6	104.03	0.30%	99.4 %	
Y 371.029	660568.9	3559.03	0.54%	98.142 %	
Y RADIAL	24239.0	65.63	0.27%	98.71 %	
Al 396.153Radial†	108734.4	692.66	0.64%	[50000] ug/L	
Ca 317.933Radial†	72972.8	445.06	0.61%	[50000] ug/L	
Fe 238.204 Radial†	1807.3	7.13	0.39%	[20000] ug/L	
Mg 279.077 IEC†	3122.5	6.45	0.21%	[50000] ug/L	
Na 589.592 Radial†	261779.1	1635.92	0.62%	[20000] ug/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	140.5	0.00000	0.999962	
Al 396.153Radial 3	3	Lin Thru 0	0.0	2.174	0.00000	0.999998	
As 188.979	3	Lin Thru 0	0.0	2.094	0.00000	0.999989	
B 249.677	3	Lin Thru 0	0.0	32.88	0.00000	0.999955	
Ba 233.527	3	Lin Thru 0	0.0	62.01	0.00000	0.999982	
Be 313.107	3	Lin Thru 0	0.0	1920	0.00000	0.999995	
Ca 317.933Radial 3	3	Lin Thru 0	0.0	1.460	0.00000	0.999996	
Cd 226.502	3	Lin Thru 0	0.0	69.49	0.00000	0.999990	
Co 228.616	3	Lin Thru 0	0.0	33.84	0.00000	0.999995	
Cr 267.716	3	Lin Thru 0	0.0	61.52	0.00000	0.999984	
Cu 324.752	3	Lin Thru 0	0.0	180.2	0.00000	0.999942	
Fe 238.204 Radial 2	2	Lin Thru 0	0.0	0.0907	0.00000	0.999976	
K 766.490 Radial 3	3	Lin Thru 0	0.0	5.777	0.00000	0.999971	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0625	0.00000	0.999986
Mn 257.610	3	Lin Thru 0	0.0	443.5	0.00000	0.999961
Mo 202.031	3	Lin Thru 0	0.0	23.23	0.00000	0.999980
Na 589.592 Radial	2	Lin Thru 0	0.0	13.11	0.00000	0.999994
Ni 231.604	3	Lin Thru 0	0.0	31.73	0.00000	0.999992
P 214.914	3	Lin Thru 0	0.0	1.188	0.00000	0.999978
Pb 220.353	3	Lin Thru 0	0.0	7.809	0.00000	0.999984
S 181.975 Axial	3	Lin Thru 0	0.0	0.9892	0.00000	0.999964
Sb 206.836	3	Lin Thru 0	0.0	2.484	0.00000	0.999985
Se 196.026	3	Lin Thru 0	0.0	2.246	0.00000	0.999992
Si 251.611	3	Lin Thru 0	0.0	18.84	0.00000	0.999970
Sn 189.927	3	Lin Thru 0	0.0	7.735	0.00000	0.999955
Sr 421.552	3	Lin Thru 0	0.0	426.6	0.00000	0.999991
Ti 334.940	3	Lin Thru 0	0.0	568.8	0.00000	0.999894
Tl 190.801	3	Lin Thru 0	0.0	2.214	0.00000	0.999986
U 409.014	3	Lin Thru 0	0.0	20.26	0.00000	0.999862
V 292.402	3	Lin Thru 0	0.0	110.8	0.00000	0.999971
Zn 213.857	3	Lin Thru 0	0.0	81.50	0.00000	0.999987
SiO2	3	Lin Thru 0	0.0	8.855	0.00000	0.999995

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 4/23/2007 17:51:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35870.3	35870.3	102 %		17:53:43
1	Y RADIAL	24724.3	24724.3	100.7 %		17:53:43
1	Al 396.153Radial†	10552.2	10415.6	4771.0 ug/L	4771.0 ppb	17:53:43
1	Ca 317.933Radial†	7601.0	7397.9	5067.3 ug/L	5067.3 ppb	17:53:43
1	Fe 238.204 Radial†	510.0	459.3	5082.8 ug/L	5082.8 ppb	17:54:04
1	K 766.490 Radial†	16323.1	15025.4	2601.1 ug/L	2601.1 ppb	17:53:43
1	Mg 279.077 IEC†	322.1	313.6	5021.9 ug/L	5021.9 ppb	17:54:04
1	Na 589.592 Radial†	33716.7	32988.4	2518.0 ug/L	2518.0 ppb	17:53:43
1	Sr 421.552†	218567.1	214490.9	502.60 ug/L	502.60 ppb	17:53:43
1	Sc 361.383	981135.7	981135.7	101.33 %		17:55:04
1	Y 371.029	677433.4	677433.4	100.65 %		17:55:04
1	Ag 328.068†	35572.4	35034.4	254.73 ug/L	254.73 ppb	17:55:04
1	As 188.979†	1046.6	1051.2	503.46 ug/L	503.46 ppb	17:55:25
1	B 249.677†	17091.3	16615.6	499.94 ug/L	499.94 ppb	17:55:04
1	Ba 233.527†	32072.9	31668.4	511.66 ug/L	511.66 ppb	17:55:04
1	Be 313.107†	503905.3	500183.3	261.82 ug/L	261.82 ppb	17:55:04
1	Cd 226.502†	35105.3	34741.2	499.71 ug/L	499.71 ppb	17:55:04
1	Co 228.616†	17565.5	17362.5	513.21 ug/L	513.21 ppb	17:55:04
1	Cr 267.716†	31399.3	31023.6	505.11 ug/L	505.11 ppb	17:55:04
1	Cu 324.752†	97052.6	92542.9	513.76 ug/L	513.76 ppb	17:55:04
1	Mn 257.610†	227114.8	223976.7	505.26 ug/L	505.26 ppb	17:55:04
1	Mo 202.031†	11890.9	11715.0	504.58 ug/L	504.58 ppb	17:55:25
1	Ni 231.604†	16423.4	16048.8	504.97 ug/L	504.97 ppb	17:55:04
1	P 214.914†	2798.6	2933.8	2458.0 ug/L	2458.0 ppb	17:55:25
1	Pb 220.353†	4055.9	3931.1	504.23 ug/L	504.23 ppb	17:55:25
1	S 181.975 Axial†	2555.3	2485.2	2511.1 ug/L	2511.1 ppb	17:55:25
1	Sb 206.836†	1274.2	1233.2	496.65 ug/L	496.65 ppb	17:55:25
1	Se 196.026†	5810.6	5740.7	2567.9 ug/L	2567.9 ppb	17:55:25
1	Si 251.611†	94894.1	93232.2	4936.4 ug/L	4936.4 ppb	17:55:04
1	Sn 189.927†	3956.9	3905.0	505.23 ug/L	505.23 ppb	17:55:25
1	Ti 334.940†	283800.2	279490.3	491.47 ug/L	491.47 ppb	17:55:04
1	Tl 190.801†	1071.6	1093.2	497.50 ug/L	497.50 ppb	17:55:25
1	U 409.014†	10458.4	10199.8	498.16 ug/L	498.16 ppb	17:55:04
1	V 292.402†	55498.5	55041.8	481.58 ug/L	481.58 ppb	17:55:04
1	Zn 213.857†	41194.1	40193.4	490.63 ug/L	490.63 ppb	17:55:04
1	SiO2†	95929.9	94265.1	10646 ug/L	10646 ppb	17:56:26
2	Sc Radial	35764.8	35764.8	101 %		17:54:09
2	Y RADIAL	24676.7	24676.7	100.5 %		17:54:09
2	Al 396.153Radial†	10574.5	10468.2	4795.1 ug/L	4795.1 ppb	17:54:09
2	Ca 317.933Radial†	7655.7	7473.9	5119.3 ug/L	5119.3 ppb	17:54:09
2	Fe 238.204 Radial†	512.4	463.1	5125.2 ug/L	5125.2 ppb	17:54:29
2	K 766.490 Radial†	16397.9	15146.5	2622.0 ug/L	2622.0 ppb	17:54:09
2	Mg 279.077 IEC†	324.7	317.0	5077.6 ug/L	5077.6 ppb	17:54:29
2	Na 589.592 Radial†	33511.2	32883.7	2510.0 ug/L	2510.0 ppb	17:54:09
2	Sr 421.552†	217601.9	214173.2	501.86 ug/L	501.86 ppb	17:54:09
2	Sc 361.383	980286.1	980286.1	101.25 %		17:55:32
2	Y 371.029	676864.4	676864.4	100.56 %		17:55:32
2	Ag 328.068†	35622.9	35114.8	255.32 ug/L	255.32 ppb	17:55:32
2	As 188.979†	1048.1	1053.6	504.60 ug/L	504.60 ppb	17:55:52
2	B 249.677†	17122.1	16660.6	501.28 ug/L	501.28 ppb	17:55:32
2	Ba 233.527†	32032.9	31656.4	511.46 ug/L	511.46 ppb	17:55:32
2	Be 313.107†	503281.7	499998.3	261.73 ug/L	261.73 ppb	17:55:32
2	Cd 226.502†	34995.5	34662.8	498.58 ug/L	498.58 ppb	17:55:32
2	Co 228.616†	17531.2	17343.6	512.66 ug/L	512.66 ppb	17:55:32
2	Cr 267.716†	31358.1	31009.8	504.88 ug/L	504.88 ppb	17:55:32
2	Cu 324.752†	97249.9	92820.7	515.30 ug/L	515.30 ppb	17:55:32
2	Mn 257.610†	226918.1	223976.7	505.27 ug/L	505.27 ppb	17:55:32
2	Mo 202.031†	11884.6	11719.0	504.75 ug/L	504.75 ppb	17:55:52
2	Ni 231.604†	16372.4	16012.5	503.83 ug/L	503.83 ppb	17:55:32

2	P 214.914†	2803.8	2941.4	2464.3 ug/L	2464.3 ppb	17:55:52
2	Pb 220.353†	4047.7	3926.5	503.64 ug/L	503.64 ppb	17:55:52
2	S 181.975 Axial†	2551.6	2483.7	2509.6 ug/L	2509.6 ppb	17:55:52
2	Sb 206.836†	1268.8	1229.0	494.97 ug/L	494.97 ppb	17:55:52
2	Se 196.026†	5797.7	5732.9	2564.5 ug/L	2564.5 ppb	17:55:52
2	Si 251.611†	94980.7	93399.0	4945.3 ug/L	4945.3 ppb	17:55:32
2	Sn 189.927†	3950.0	3901.5	504.79 ug/L	504.79 ppb	17:55:52
2	Ti 334.940†	283998.2	279928.7	492.25 ug/L	492.25 ppb	17:55:32
2	Tl 190.801†	1067.0	1089.5	495.86 ug/L	495.86 ppb	17:55:52
2	U 409.014†	10525.7	10275.2	501.87 ug/L	501.87 ppb	17:55:32
2	V 292.402†	55556.7	55146.7	482.52 ug/L	482.52 ppb	17:55:32
2	Zn 213.857†	41154.5	40189.6	490.57 ug/L	490.57 ppb	17:55:32
2	SiO2†	95339.0	93763.6	10589 ug/L	10589 ppb	17:56:31
3	Sc Radial	35920.3	35920.3	102 %		17:54:35
3	Y RADIAL	24782.5	24782.5	100.9 %		17:54:35
3	Al 396.153Radial†	10573.4	10421.9	4773.9 ug/L	4773.9 ppb	17:54:35
3	Ca 317.933Radial†	7631.2	7417.2	5080.5 ug/L	5080.5 ppb	17:54:35
3	Fe 238.204 Radial†	516.2	464.6	5141.7 ug/L	5141.7 ppb	17:54:55
3	K 766.490 Radial†	16421.1	15099.3	2613.8 ug/L	2613.8 ppb	17:54:35
3	Mg 279.077 IEC†	325.4	316.4	5066.9 ug/L	5066.9 ppb	17:54:55
3	Na 589.592 Radial†	33517.5	32746.9	2499.6 ug/L	2499.6 ppb	17:54:35
3	Sr 421.552†	218557.5	214182.9	501.88 ug/L	501.88 ppb	17:54:35
3	Sc 361.383	984437.6	984437.6	101.67 %		17:56:00
3	Y 371.029	680963.1	680963.1	101.17 %		17:56:00
3	Ag 328.068†	35805.3	35145.8	255.55 ug/L	255.55 ppb	17:56:00
3	As 188.979†	1042.7	1043.9	499.98 ug/L	499.98 ppb	17:56:20
3	B 249.677†	17234.1	16699.5	502.45 ug/L	502.45 ppb	17:56:00
3	Ba 233.527†	32180.8	31668.5	511.66 ug/L	511.66 ppb	17:56:00
3	Be 313.107†	505783.7	500362.9	261.92 ug/L	261.92 ppb	17:56:00
3	Cd 226.502†	35185.8	34704.2	499.18 ug/L	499.18 ppb	17:56:00
3	Co 228.616†	17655.7	17393.1	514.12 ug/L	514.12 ppb	17:56:00
3	Cr 267.716†	31513.6	31032.1	505.25 ug/L	505.25 ppb	17:56:00
3	Cu 324.752†	97920.2	93075.0	516.72 ug/L	516.72 ppb	17:56:00
3	Mn 257.610†	227778.2	223877.4	505.04 ug/L	505.04 ppb	17:56:00
3	Mo 202.031†	11937.2	11721.2	504.85 ug/L	504.85 ppb	17:56:20
3	Ni 231.604†	16420.6	15991.7	503.17 ug/L	503.17 ppb	17:56:00
3	P 214.914†	2809.7	2935.4	2459.3 ug/L	2459.3 ppb	17:56:20
3	Pb 220.353†	4075.8	3937.3	505.01 ug/L	505.01 ppb	17:56:20
3	S 181.975 Axial†	2562.4	2483.7	2509.6 ug/L	2509.6 ppb	17:56:20
3	Sb 206.836†	1280.6	1235.3	497.49 ug/L	497.49 ppb	17:56:20
3	Se 196.026†	5835.1	5745.5	2570.1 ug/L	2570.1 ppb	17:56:20
3	Si 251.611†	95412.4	93427.9	4946.8 ug/L	4946.8 ppb	17:56:00
3	Sn 189.927†	3983.3	3917.9	506.90 ug/L	506.90 ppb	17:56:20
3	Ti 334.940†	285381.6	280106.4	492.55 ug/L	492.55 ppb	17:56:00
3	Tl 190.801†	1086.4	1104.2	502.48 ug/L	502.48 ppb	17:56:20
3	U 409.014†	10568.2	10273.2	501.77 ug/L	501.77 ppb	17:56:00
3	V 292.402†	55797.8	55152.4	482.57 ug/L	482.57 ppb	17:56:00
3	Zn 213.857†	41428.4	40287.5	491.77 ug/L	491.77 ppb	17:56:00
3	SiO2†	95114.5	93145.6	10519 ug/L	10519 ppb	17:56:37

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	981953.1	101.42 %	0.227			0.22%
Sc Radial	35851.8	102 %	0.2			0.22%
Y 371.029	678420.3	100.79 %	0.330			0.33%
Y RADIAL	24727.8	100.7 %	0.22			0.21%
Ag 328.068†	35098.3	255.20 ug/L	0.422	255.20 ppb	0.422	0.17%
QC value within limits for Ag 328.068 Recovery = 102.08%						
Al 396.153Radial†	10435.2	4780.0 ug/L	13.20	4780.0 ppb	13.20	0.28%
QC value within limits for Al 396.153Radial Recovery = 95.60%						
As 188.979†	1049.5	502.68 ug/L	2.407	502.68 ppb	2.407	0.48%
QC value within limits for As 188.979 Recovery = 100.54%						
B 249.677†	16658.6	501.23 ug/L	1.257	501.23 ppb	1.257	0.25%
QC value within limits for B 249.677 Recovery = 100.25%						
Ba 233.527†	31664.4	511.59 ug/L	0.112	511.59 ppb	0.112	0.02%
QC value within limits for Ba 233.527 Recovery = 102.32%						
Be 313.107†	500181.5	261.83 ug/L	0.095	261.83 ppb	0.095	0.04%
QC value within limits for Be 313.107 Recovery = 104.73%						
Ca 317.933Radial†	7429.6	5089.0 ug/L	27.04	5089.0 ppb	27.04	0.53%

	QC value within limits for Ca 317.933Radial	Recovery = 101.78%				
Cd 226.502†	34702.7	499.16 ug/L	0.566	499.16 ppb	0.566	0.11%
	QC value within limits for Cd 226.502	Recovery = 99.83%				
Co 228.616†	17366.4	513.33 ug/L	0.737	513.33 ppb	0.737	0.14%
	QC value within limits for Co 228.616	Recovery = 102.67%				
Cr 267.716†	31021.9	505.08 ug/L	0.183	505.08 ppb	0.183	0.04%
	QC value within limits for Cr 267.716	Recovery = 101.02%				
Cu 324.752†	92812.9	515.26 ug/L	1.480	515.26 ppb	1.480	0.29%
	QC value within limits for Cu 324.752	Recovery = 103.05%				
Fe 238.204 Radial†	462.3	5116.6 ug/L	30.37	5116.6 ppb	30.37	0.59%
	QC value within limits for Fe 238.204 Radial	Recovery = 102.33%				
K 766.490 Radial†	15090.4	2612.3 ug/L	10.56	2612.3 ppb	10.56	0.40%
	QC value within limits for K 766.490 Radial	Recovery = 104.49%				
Mg 279.077 IEC†	315.7	5055.5 ug/L	29.60	5055.5 ppb	29.60	0.59%
	QC value within limits for Mg 279.077 IEC	Recovery = 101.11%				
Mn 257.610†	223943.6	505.19 ug/L	0.128	505.19 ppb	0.128	0.03%
	QC value within limits for Mn 257.610	Recovery = 101.04%				
Mo 202.031†	11718.4	504.73 ug/L	0.136	504.73 ppb	0.136	0.03%
	QC value within limits for Mo 202.031	Recovery = 100.95%				
Na 589.592 Radial†	32873.0	2509.2 ug/L	9.23	2509.2 ppb	9.23	0.37%
	QC value within limits for Na 589.592 Radial	Recovery = 100.37%				
Ni 231.604†	16017.7	503.99 ug/L	0.912	503.99 ppb	0.912	0.18%
	QC value within limits for Ni 231.604	Recovery = 100.80%				
P 214.914†	2936.9	2460.5 ug/L	3.33	2460.5 ppb	3.33	0.14%
	QC value within limits for P 214.914	Recovery = 98.42%				
Pb 220.353†	3931.6	504.29 ug/L	0.688	504.29 ppb	0.688	0.14%
	QC value within limits for Pb 220.353	Recovery = 100.86%				
S 181.975 Axial†	2484.2	2510.1 ug/L	0.90	2510.1 ppb	0.90	0.04%
	QC value within limits for S 181.975 Axial	Recovery = 100.40%				
Sb 206.836†	1232.5	496.37 ug/L	1.286	496.37 ppb	1.286	0.26%
	QC value within limits for Sb 206.836	Recovery = 99.27%				
Se 196.026†	5739.7	2567.5 ug/L	2.85	2567.5 ppb	2.85	0.11%
	QC value within limits for Se 196.026	Recovery = 102.70%				
Si 251.611†	93353.0	4942.9 ug/L	5.60	4942.9 ppb	5.60	0.11%
	QC value within limits for Si 251.611	Recovery = 98.86%				
Sn 189.927†	3908.1	505.64 ug/L	1.113	505.64 ppb	1.113	0.22%
	QC value within limits for Sn 189.927	Recovery = 101.13%				
Sr 421.552†	214282.3	502.11 ug/L	0.424	502.11 ppb	0.424	0.08%
	QC value within limits for Sr 421.552	Recovery = 100.42%				
Ti 334.940†	279841.8	492.09 ug/L	0.558	492.09 ppb	0.558	0.11%
	QC value within limits for Ti 334.940	Recovery = 98.42%				
Tl 190.801†	1095.7	498.61 ug/L	3.447	498.61 ppb	3.447	0.69%
	QC value within limits for Tl 190.801	Recovery = 99.72%				
U 409.014†	10249.4	500.60 ug/L	2.112	500.60 ppb	2.112	0.42%
	QC value within limits for U 409.014	Recovery = 100.12%				
V 292.402†	55113.7	482.22 ug/L	0.559	482.22 ppb	0.559	0.12%
	QC value within limits for V 292.402	Recovery = 96.44%				
Zn 213.857†	40223.5	490.99 ug/L	0.675	490.99 ppb	0.675	0.14%
	QC value within limits for Zn 213.857	Recovery = 98.20%				
SiO2†	93724.8	10585 ug/L	63.3	10585 ppb	63.3	0.60%
	QC value within limits for SiO2	Recovery = 98.97%				
All analyte(s) passed QC.						

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

Autosampler Location: 10
 Date Collected: 4/23/2007 17:58:48
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35734.2	35734.2	101 %		18:00:32
1	Y RADIAL	24836.1	24836.1	101.1 %		18:00:32
1	Al 396.153Radial†	-53.7	-9.9	-4.5642 ug/L	-4.5642 ppb	18:00:32
1	Ca 317.933Radial†	75.7	1.1	0.7266 ug/L	0.7266 ppb	18:00:52
1	Fe 238.204 Radial†	41.8	-0.8	-8.7068 ug/L	-8.7068 ppb	18:00:52
1	K 766.490 Radial†	1057.4	23.7	4.1073 ug/L	4.1073 ppb	18:00:32
1	Mg 279.077 IEC†	1.2	-1.9	-30.668 ug/L	-30.668 ppb	18:00:52
1	Na 589.592 Radial†	188.4	32.0	2.4404 ug/L	2.4404 ppb	18:00:32
1	Sr 421.552†	372.8	15.1	0.0355 ug/L	0.0355 ppb	18:00:32
1	Sc 361.383	979474.6	979474.6	101.16 %		18:01:51
1	Y 371.029	680198.6	680198.6	101.06 %		18:01:51
1	Ag 328.068†	57.5	-12.9	-0.0937 ug/L	-0.0937 ppb	18:01:56
1	As 188.979†	-19.6	-1.0	-0.4557 ug/L	-0.4557 ppb	18:02:16
1	B 249.677†	480.0	223.7	6.8089 ug/L	6.8089 ppb	18:02:16
1	Ba 233.527†	-20.4	-2.6	-0.0411 ug/L	-0.0411 ppb	18:02:16
1	Be 313.107†	-2885.7	56.4	0.0297 ug/L	0.0297 ppb	18:01:56
1	Cd 226.502†	-99.7	-0.7	-0.0094 ug/L	-0.0094 ppb	18:02:16
1	Co 228.616†	-25.5	2.9	0.0867 ug/L	0.0867 ppb	18:02:16
1	Cr 267.716†	-27.3	10.6	0.1719 ug/L	0.1719 ppb	18:02:16
1	Cu 324.752†	3278.5	8.2	0.0447 ug/L	0.0447 ppb	18:01:56
1	Mn 257.610†	176.7	25.2	0.0566 ug/L	0.0566 ppb	18:02:16
1	Mo 202.031†	31.4	11.7	0.5028 ug/L	0.5028 ppb	18:02:16
1	Ni 231.604†	165.7	5.3	0.1676 ug/L	0.1676 ppb	18:02:16
1	P 214.914†	-162.4	11.5	9.6945 ug/L	9.6945 ppb	18:02:16
1	Pb 220.353†	88.5	16.1	2.0612 ug/L	2.0612 ppb	18:02:16
1	S 181.975 Axial†	37.0	0.0	0.0193 ug/L	0.0193 ppb	18:02:16
1	Sb 206.836†	30.6	6.0	2.4280 ug/L	2.4280 ppb	18:02:16
1	Se 196.026†	-1.1	5.4	2.4012 ug/L	2.4012 ppb	18:02:16
1	Si 251.611†	459.0	40.6	2.1438 ug/L	2.1438 ppb	18:02:16
1	Sn 189.927†	10.0	10.0	1.2960 ug/L	1.2960 ppb	18:02:16
1	Ti 334.940†	659.0	76.1	0.1340 ug/L	0.1340 ppb	18:01:56
1	Tl 190.801†	-44.1	-7.9	-3.5549 ug/L	-3.5549 ppb	18:02:16
1	U 409.014†	115.4	-6.9	-0.3409 ug/L	-0.3409 ppb	18:01:56
1	V 292.402†	-262.5	14.1	0.1125 ug/L	0.1125 ppb	18:01:56
1	Zn 213.857†	736.7	269.6	3.3101 ug/L	3.3101 ppb	18:02:16
1	SiO2†	453.7	46.0	5.1979 ug/L	5.1979 ppb	18:03:39
2	Sc Radial	35841.3	35841.3	102 %		18:00:57
2	Y RADIAL	24981.9	24981.9	101.7 %		18:00:57
2	Al 396.153Radial†	-67.9	-23.7	-10.899 ug/L	-10.899 ppb	18:00:57
2	Ca 317.933Radial†	85.0	10.0	6.8632 ug/L	6.8632 ppb	18:01:18
2	Fe 238.204 Radial†	43.0	0.3	2.9417 ug/L	2.9417 ppb	18:01:18
2	K 766.490 Radial†	1017.5	-18.6	-3.2255 ug/L	-3.2255 ppb	18:00:57
2	Mg 279.077 IEC†	-2.0	-5.0	-80.174 ug/L	-80.174 ppb	18:01:18
2	Na 589.592 Radial†	265.3	107.1	8.1601 ug/L	8.1601 ppb	18:00:57
2	Sr 421.552†	351.6	-6.9	-0.0164 ug/L	-0.0164 ppb	18:00:57
2	Sc 361.383	978480.3	978480.3	101.06 %		18:02:22
2	Y 371.029	678681.3	678681.3	100.83 %		18:02:22
2	Ag 328.068†	86.7	16.0	0.1139 ug/L	0.1139 ppb	18:02:27
2	As 188.979†	-13.7	4.8	2.3002 ug/L	2.3002 ppb	18:02:47
2	B 249.677†	461.5	206.0	6.2614 ug/L	6.2614 ppb	18:02:47
2	Ba 233.527†	-6.2	11.5	0.1849 ug/L	0.1849 ppb	18:02:47
2	Be 313.107†	-2907.8	31.6	0.0167 ug/L	0.0167 ppb	18:02:27
2	Cd 226.502†	-95.0	3.9	0.0550 ug/L	0.0550 ppb	18:02:47
2	Co 228.616†	-29.2	-0.8	-0.0234 ug/L	-0.0234 ppb	18:02:47
2	Cr 267.716†	-35.7	2.2	0.0356 ug/L	0.0356 ppb	18:02:47
2	Cu 324.752†	3208.5	-57.8	-0.3203 ug/L	-0.3203 ppb	18:02:27
2	Mn 257.610†	182.6	31.2	0.0726 ug/L	0.0726 ppb	18:02:47
2	Mo 202.031†	28.0	8.3	0.3586 ug/L	0.3586 ppb	18:02:47
2	Ni 231.604†	185.6	25.2	0.7926 ug/L	0.7926 ppb	18:02:47

2	P 214.914†	-162.4	11.3	9.5047 ug/L	9.5047 ppb	18:02:47
2	Pb 220.353†	83.8	11.5	1.4726 ug/L	1.4726 ppb	18:02:47
2	S 181.975 Axial†	36.0	-0.9	-0.8619 ug/L	-0.8619 ppb	18:02:47
2	Sb 206.836†	23.6	-0.9	-0.3465 ug/L	-0.3465 ppb	18:02:47
2	Se 196.026†	-8.2	-1.6	-0.7142 ug/L	-0.7142 ppb	18:02:47
2	Si 251.611†	435.1	17.4	0.9124 ug/L	0.9124 ppb	18:02:47
2	Sn 189.927†	5.7	5.8	0.7502 ug/L	0.7502 ppb	18:02:47
2	Ti 334.940†	639.1	57.1	0.1020 ug/L	0.1020 ppb	18:02:27
2	Tl 190.801†	-37.7	-1.6	-0.7429 ug/L	-0.7429 ppb	18:02:47
2	U 409.014†	92.7	-29.3	-1.4476 ug/L	-1.4476 ppb	18:02:27
2	V 292.402†	-287.6	-11.0	-0.1127 ug/L	-0.1127 ppb	18:02:27
2	Zn 213.857†	716.9	250.7	3.0796 ug/L	3.0796 ppb	18:02:47
2	SiO2†	451.1	43.9	4.9626 ug/L	4.9626 ppb	18:03:59
3	Sc Radial	35127.3	35127.3	99.6 %		18:01:23
3	Y RADIAL	24398.2	24398.2	99.36 %		18:01:23
3	Al 396.153Radial†	-84.8	-42.0	-19.328 ug/L	-19.328 ppb	18:01:23
3	Ca 317.933Radial†	79.2	5.9	4.0625 ug/L	4.0625 ppb	18:01:43
3	Fe 238.204 Radial†	41.9	-0.0	-0.3440 ug/L	-0.3440 ppb	18:01:43
3	K 766.490 Radial†	1091.4	75.9	13.134 ug/L	13.134 ppb	18:01:23
3	Mg 279.077 IEC†	0.6	-2.5	-40.146 ug/L	-40.146 ppb	18:01:43
3	Na 589.592 Radial†	297.5	144.8	11.041 ug/L	11.041 ppb	18:01:23
3	Sr 421.552†	380.5	29.2	0.0682 ug/L	0.0682 ppb	18:01:23
3	Sc 361.383	974920.9	974920.9	100.69 %		18:02:53
3	Y 371.029	677468.6	677468.6	100.65 %		18:02:53
3	Ag 328.068†	33.3	-36.7	-0.2629 ug/L	-0.2629 ppb	18:02:58
3	As 188.979†	-18.9	-0.4	-0.1823 ug/L	-0.1823 ppb	18:03:18
3	B 249.677†	472.4	218.4	6.6404 ug/L	6.6404 ppb	18:03:18
3	Ba 233.527†	-8.8	8.9	0.1429 ug/L	0.1429 ppb	18:03:18
3	Be 313.107†	-2962.0	-32.7	-0.0168 ug/L	-0.0168 ppb	18:02:58
3	Cd 226.502†	-95.5	3.0	0.0433 ug/L	0.0433 ppb	18:03:18
3	Co 228.616†	-22.2	6.1	0.1800 ug/L	0.1800 ppb	18:03:18
3	Cr 267.716†	-34.9	2.9	0.0459 ug/L	0.0459 ppb	18:03:18
3	Cu 324.752†	3289.8	34.6	0.1923 ug/L	0.1923 ppb	18:02:58
3	Mn 257.610†	174.1	23.4	0.0538 ug/L	0.0538 ppb	18:03:18
3	Mo 202.031†	27.2	7.6	0.3287 ug/L	0.3287 ppb	18:03:18
3	Ni 231.604†	163.7	4.1	0.1288 ug/L	0.1288 ppb	18:03:18
3	P 214.914†	-156.3	16.7	14.080 ug/L	14.080 ppb	18:03:18
3	Pb 220.353†	73.5	1.6	0.1999 ug/L	0.1999 ppb	18:03:18
3	S 181.975 Axial†	35.6	-1.1	-1.1403 ug/L	-1.1403 ppb	18:03:18
3	Sb 206.836†	22.6	-1.7	-0.7049 ug/L	-0.7049 ppb	18:03:18
3	Se 196.026†	-5.2	1.4	0.6272 ug/L	0.6272 ppb	18:03:18
3	Si 251.611†	437.8	21.6	1.1383 ug/L	1.1383 ppb	18:03:18
3	Sn 189.927†	11.0	11.0	1.4258 ug/L	1.4258 ppb	18:03:18
3	Ti 334.940†	622.1	42.6	0.0757 ug/L	0.0757 ppb	18:02:58
3	Tl 190.801†	-43.6	-7.6	-3.4489 ug/L	-3.4489 ppb	18:03:18
3	U 409.014†	107.6	-14.1	-0.6962 ug/L	-0.6962 ppb	18:02:58
3	V 292.402†	-293.7	-18.0	-0.1740 ug/L	-0.1740 ppb	18:02:58
3	Zn 213.857†	724.8	261.2	3.2054 ug/L	3.2054 ppb	18:03:18
3	SiO2†	476.0	70.3	7.9357 ug/L	7.9357 ppb	18:04:19

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	977625.3	100.97 %	0.247			0.24%
Sc Radial	35567.6	101 %	1.1			1.08%
Y 371.029	678782.8	100.85 %	0.203			0.20%
Y RADIAL	24738.8	100.7 %	1.24			1.23%
Ag 328.068†	-11.2	-0.0809 ug/L	0.18873	-0.0809 ppb	0.18873	233.29%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-25.2	-11.597 ug/L	7.4065	-11.597 ppb	7.4065	63.87%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.2	0.5541 ug/L	1.51839	0.5541 ppb	1.51839	274.04%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	216.0	6.5702 ug/L	0.28040	6.5702 ppb	0.28040	4.27%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.9	0.0956 ug/L	0.12021	0.0956 ppb	0.12021	125.75%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	18.4	0.0099 ug/L	0.02403	0.0099 ppb	0.02403	242.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	5.7	3.8841 ug/L	3.07219	3.8841 ppb	3.07219	79.10%

	QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	2.1	0.0297 ug/L	0.03427	0.0297 ppb	0.03427	115.59%	
	QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.7	0.0811 ug/L	0.10177	0.0811 ppb	0.10177	125.51%	
	QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	5.2	0.0845 ug/L	0.07587	0.0845 ppb	0.07587	89.84%	
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-5.0	-0.0277 ug/L	0.26386	-0.0277 ppb	0.26386	951.16%	
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.2	-2.0364 ug/L	6.00581	-2.0364 ppb	6.00581	294.93%	
	QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	27.0	4.6720 ug/L	8.19437	4.6720 ppb	8.19437	175.39%	
	QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-3.1	-50.329 ug/L	26.2774	-50.329 ppb	26.2774	52.21%	
	QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	26.6	0.0610 ug/L	0.01014	0.0610 ppb	0.01014	16.62%	
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	9.2	0.3967 ug/L	0.09308	0.3967 ppb	0.09308	23.46%	
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	94.6	7.2137 ug/L	4.37750	7.2137 ppb	4.37750	60.68%	
	QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	11.5	0.3630 ug/L	0.37253	0.3630 ppb	0.37253	102.63%	
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	13.2	11.093 ug/L	2.5888	11.093 ppb	2.5888	23.34%	
	QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	9.7	1.2446 ug/L	0.95136	1.2446 ppb	0.95136	76.44%	
	QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.7	-0.6609 ug/L	0.60536	-0.6609 ppb	0.60536	91.59%	
	QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	1.1	0.4588 ug/L	1.71472	0.4588 ppb	1.71472	373.71%	
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.7	0.7714 ug/L	1.56272	0.7714 ppb	1.56272	202.59%	
	QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	26.5	1.3982 ug/L	0.65559	1.3982 ppb	0.65559	46.89%	
	QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	9.0	1.1573 ug/L	0.35849	1.1573 ppb	0.35849	30.98%	
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	12.5	0.0291 ug/L	0.04265	0.0291 ppb	0.04265	146.49%	
	QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	58.6	0.1039 ug/L	0.02920	0.1039 ppb	0.02920	28.10%	
	QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-5.7	-2.5822 ug/L	1.59382	-2.5822 ppb	1.59382	61.72%	
	QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-16.8	-0.8282 ug/L	0.56505	-0.8282 ppb	0.56505	68.23%	
	QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-5.0	-0.0580 ug/L	0.15088	-0.0580 ppb	0.15088	259.91%	
	QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	260.5	3.1984 ug/L	0.11538	3.1984 ppb	0.11538	3.61%	
	QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	53.4	6.0321 ug/L	1.65279	6.0321 ppb	1.65279	27.40%	
	QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 8

Autosampler Location: 11

Sample ID: PQL

Date Collected: 4/23/2007 18:06:37

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	36026.0	36026.0	102 %		18:08:30
1	Y RADIAL	25094.5	25094.5	102.2 %		18:08:30
1	Al 396.153Radial†	381.5	416.5	191.12 ug/L	191.12 ppb	18:08:30
1	Ca 317.933Radial†	213.9	135.7	92.941 ug/L	92.941 ppb	18:08:50
1	Fe 238.204 Radial†	50.6	7.4	81.774 ug/L	81.774 ppb	18:08:50
1	K 766.490 Radial†	1799.6	741.7	128.38 ug/L	128.38 ppb	18:08:30
1	Mg 279.077 IEC†	22.0	18.5	295.49 ug/L	295.49 ppb	18:08:50
1	Na 589.592 Radial†	2159.8	1959.9	149.79 ug/L	149.79 ppb	18:08:30
1	Sr 421.552†	2501.5	2095.5	4.9089 ug/L	4.9089 ppb	18:08:30
1	Sc 361.383	995332.7	995332.7	102.80 %		18:09:48
1	Y 371.029	691687.5	691687.5	102.77 %		18:09:48
1	Ag 328.068†	851.5	758.5	5.4486 ug/L	5.4486 ppb	18:09:53
1	As 188.979†	15.5	33.4	15.969 ug/L	15.969 ppb	18:10:13
1	B 249.677†	1946.9	1643.1	49.896 ug/L	49.896 ppb	18:10:13
1	Ba 233.527†	295.3	304.9	4.9274 ug/L	4.9274 ppb	18:10:13
1	Be 313.107†	6657.2	9384.9	4.9005 ug/L	4.9005 ppb	18:09:53
1	Cd 226.502†	261.1	351.9	5.0800 ug/L	5.0800 ppb	18:10:13
1	Co 228.616†	148.4	172.5	5.1074 ug/L	5.1074 ppb	18:10:13
1	Cr 267.716†	277.1	307.1	5.0214 ug/L	5.0214 ppb	18:10:13
1	Cu 324.752†	5071.5	1700.8	9.4385 ug/L	9.4385 ppb	18:09:53
1	Mn 257.610†	4880.4	4598.0	10.353 ug/L	10.353 ppb	18:10:13
1	Mo 202.031†	249.4	223.3	9.6150 ug/L	9.6150 ppb	18:10:13
1	Ni 231.604†	327.7	160.3	5.0446 ug/L	5.0446 ppb	18:10:13
1	P 214.914†	17.7	189.3	159.14 ug/L	159.14 ppb	18:10:13
1	Pb 220.353†	149.0	73.5	9.4038 ug/L	9.4038 ppb	18:10:13
1	S 181.975 Axial†	131.0	90.9	91.841 ug/L	91.841 ppb	18:10:13
1	Sb 206.836†	48.5	23.0	9.2254 ug/L	9.2254 ppb	18:10:13
1	Se 196.026†	20.4	26.4	11.980 ug/L	11.980 ppb	18:10:13
1	Si 251.611†	2279.3	1804.0	95.525 ug/L	95.525 ppb	18:10:13
1	Sn 189.927†	89.2	86.9	11.242 ug/L	11.242 ppb	18:10:13
1	Ti 334.940†	3464.4	2794.8	4.8904 ug/L	4.8904 ppb	18:09:53
1	Tl 190.801†	9.5	44.9	20.373 ug/L	20.373 ppb	18:10:13
1	U 409.014†	1301.1	1144.7	56.409 ug/L	56.409 ppb	18:09:53
1	V 292.402†	288.2	554.0	4.7937 ug/L	4.7937 ppb	18:10:13
1	Zn 213.857†	1319.5	824.9	10.067 ug/L	10.067 ppb	18:10:13
1	SiO2†	2287.2	1822.5	205.82 ug/L	205.82 ppb	18:11:21
2	Sc Radial	35983.6	35983.6	102 %		18:08:55
2	Y RADIAL	25042.9	25042.9	102.0 %		18:08:55
2	Al 396.153Radial†	372.0	407.7	187.05 ug/L	187.05 ppb	18:08:55
2	Ca 317.933Radial†	212.2	134.3	91.980 ug/L	91.980 ppb	18:09:15
2	Fe 238.204 Radial†	49.8	6.8	74.703 ug/L	74.703 ppb	18:09:15
2	K 766.490 Radial†	1766.6	711.5	123.15 ug/L	123.15 ppb	18:08:55
2	Mg 279.077 IEC†	22.5	19.0	304.00 ug/L	304.00 ppb	18:09:15
2	Na 589.592 Radial†	2133.0	1936.3	148.01 ug/L	148.01 ppb	18:08:55
2	Sr 421.552†	2527.7	2124.1	4.9760 ug/L	4.9760 ppb	18:08:55
2	Sc 361.383	983552.2	983552.2	101.58 %		18:10:19
2	Y 371.029	683520.7	683520.7	101.55 %		18:10:19
2	Ag 328.068†	777.2	695.2	4.9951 ug/L	4.9951 ppb	18:10:24
2	As 188.979†	7.9	26.1	12.493 ug/L	12.493 ppb	18:10:44
2	B 249.677†	1939.7	1658.7	50.374 ug/L	50.374 ppb	18:10:44
2	Ba 233.527†	298.7	311.7	5.0364 ug/L	5.0364 ppb	18:10:44
2	Be 313.107†	6683.9	9488.7	4.9549 ug/L	4.9549 ppb	18:10:24
2	Cd 226.502†	258.4	352.3	5.0880 ug/L	5.0880 ppb	18:10:44
2	Co 228.616†	144.1	169.9	5.0326 ug/L	5.0326 ppb	18:10:44
2	Cr 267.716†	280.3	313.4	5.1268 ug/L	5.1268 ppb	18:10:44
2	Cu 324.752†	5015.9	1705.2	9.4622 ug/L	9.4622 ppb	18:10:24
2	Mn 257.610†	4850.7	4625.7	10.413 ug/L	10.413 ppb	18:10:44
2	Mo 202.031†	253.0	229.6	9.8891 ug/L	9.8891 ppb	18:10:44
2	Ni 231.604†	327.0	163.4	5.1429 ug/L	5.1429 ppb	18:10:44

2	P 214.914†	11.7	183.6	154.33 ug/L	154.33 ppb	18:10:44
2	Pb 220.353†	161.3	87.4	11.176 ug/L	11.176 ppb	18:10:44
2	S 181.975 Axial†	130.4	91.9	92.820 ug/L	92.820 ppb	18:10:44
2	Sb 206.836†	50.4	25.4	10.202 ug/L	10.202 ppb	18:10:44
2	Se 196.026†	20.7	26.9	12.207 ug/L	12.207 ppb	18:10:44
2	Si 251.611†	2288.0	1839.2	97.384 ug/L	97.384 ppb	18:10:44
2	Sn 189.927†	93.4	92.0	11.908 ug/L	11.908 ppb	18:10:44
2	Ti 334.940†	3485.7	2856.1	4.9959 ug/L	4.9959 ppb	18:10:24
2	Tl 190.801†	3.4	39.0	17.731 ug/L	17.731 ppb	18:10:44
2	U 409.014†	1363.8	1221.6	60.206 ug/L	60.206 ppb	18:10:24
2	V 292.402†	285.0	554.2	4.7936 ug/L	4.7936 ppb	18:10:44
2	Zn 213.857†	1309.5	830.5	10.135 ug/L	10.135 ppb	18:10:44
2	SiO2†	2353.4	1914.3	216.18 ug/L	216.18 ppb	18:11:26
3	Sc Radial	35851.5	35851.5	102 %		18:09:20
3	Y RADIAL	24991.1	24991.1	101.8 %		18:09:20
3	Al 396.153Radial†	384.0	420.8	193.08 ug/L	193.08 ppb	18:09:20
3	Ca 317.933Radial†	211.7	134.6	92.211 ug/L	92.211 ppb	18:09:40
3	Fe 238.204 Radial†	51.0	8.1	88.960 ug/L	88.960 ppb	18:09:40
3	K 766.490 Radial†	1830.8	780.9	135.17 ug/L	135.17 ppb	18:09:20
3	Mg 279.077 IEC†	18.9	15.5	248.36 ug/L	248.36 ppb	18:09:40
3	Na 589.592 Radial†	2109.0	1920.3	146.76 ug/L	146.76 ppb	18:09:20
3	Sr 421.552†	2472.4	2078.8	4.8698 ug/L	4.8698 ppb	18:09:20
3	Sc 361.383	989187.3	989187.3	102.17 %		18:10:50
3	Y 371.029	687824.0	687824.0	102.19 %		18:10:50
3	Ag 328.068†	773.1	686.9	4.9415 ug/L	4.9415 ppb	18:10:55
3	As 188.979†	11.9	30.0	14.343 ug/L	14.343 ppb	18:11:15
3	B 249.677†	1920.1	1628.7	49.450 ug/L	49.450 ppb	18:11:15
3	Ba 233.527†	303.6	314.8	5.0862 ug/L	5.0862 ppb	18:11:15
3	Be 313.107†	6627.9	9396.4	4.9067 ug/L	4.9067 ppb	18:10:55
3	Cd 226.502†	263.0	355.3	5.1278 ug/L	5.1278 ppb	18:11:15
3	Co 228.616†	149.9	174.8	5.1772 ug/L	5.1772 ppb	18:11:15
3	Cr 267.716†	290.1	321.4	5.2544 ug/L	5.2544 ppb	18:11:15
3	Cu 324.752†	5015.9	1677.0	9.3073 ug/L	9.3073 ppb	18:10:55
3	Mn 257.610†	4905.6	4652.2	10.477 ug/L	10.477 ppb	18:11:15
3	Mo 202.031†	253.6	228.8	9.8561 ug/L	9.8561 ppb	18:11:15
3	Ni 231.604†	327.3	161.9	5.0960 ug/L	5.0960 ppb	18:11:15
3	P 214.914†	-7.1	165.0	138.73 ug/L	138.73 ppb	18:11:15
3	Pb 220.353†	145.0	70.6	9.0230 ug/L	9.0230 ppb	18:11:15
3	S 181.975 Axial†	131.0	91.7	92.710 ug/L	92.710 ppb	18:11:15
3	Sb 206.836†	51.6	26.3	10.567 ug/L	10.567 ppb	18:11:15
3	Se 196.026†	26.4	32.4	14.671 ug/L	14.671 ppb	18:11:15
3	Si 251.611†	2309.4	1847.3	97.818 ug/L	97.818 ppb	18:11:15
3	Sn 189.927†	91.3	89.5	11.573 ug/L	11.573 ppb	18:11:15
3	Ti 334.940†	3473.8	2824.9	4.9442 ug/L	4.9442 ppb	18:10:55
3	Tl 190.801†	12.8	48.2	21.862 ug/L	21.862 ppb	18:11:15
3	U 409.014†	1261.1	1113.4	54.862 ug/L	54.862 ppb	18:10:55
3	V 292.402†	291.8	559.3	4.8305 ug/L	4.8305 ppb	18:11:15
3	Zn 213.857†	1327.6	840.8	10.262 ug/L	10.262 ppb	18:11:15
3	SiO2†	2307.1	1855.8	209.58 ug/L	209.58 ppb	18:11:31

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	989357.4	102.18 %	0.609			0.60%
Sc Radial	35953.7	102 %	0.3			0.25%
Y 371.029	687677.4	102.17 %	0.607			0.59%
Y RADIAL	25042.8	102.0 %	0.21			0.21%
Ag 328.068†	713.5	5.1284 ug/L	0.27861	5.1284 ppb	0.27861	5.43%
QC value within limits for Ag 328.068 Recovery = 102.57%						
Al 396.153Radial†	415.0	190.42 ug/L	3.079	190.42 ppb	3.079	1.62%
QC value within limits for Al 396.153Radial Recovery = 95.21%						
As 188.979†	29.9	14.268 ug/L	1.7395	14.268 ppb	1.7395	12.19%
QC value within limits for As 188.979 Recovery = 95.12%						
B 249.677†	1643.5	49.907 ug/L	0.4622	49.907 ppb	0.4622	0.93%
QC value within limits for B 249.677 Recovery = 99.81%						
Ba 233.527†	310.5	5.0166 ug/L	0.08124	5.0166 ppb	0.08124	1.62%
QC value within limits for Ba 233.527 Recovery = 100.33%						
Be 313.107†	9423.3	4.9207 ug/L	0.02977	4.9207 ppb	0.02977	0.60%
QC value within limits for Be 313.107 Recovery = 98.41%						
Ca 317.933Radial†	134.9	92.377 ug/L	0.5012	92.377 ppb	0.5012	0.54%

	QC value within limits for Ca 317.933 Radial Recovery = 92.38%					
Cd 226.502†	353.1	5.0986 ug/L	0.02559	5.0986 ppb	0.02559	0.50%
	QC value within limits for Cd 226.502 Recovery = 101.97%					
Co 228.616†	172.4	5.1058 ug/L	0.07228	5.1058 ppb	0.07228	1.42%
	QC value within limits for Co 228.616 Recovery = 102.12%					
Cr 267.716†	314.0	5.1342 ug/L	0.11668	5.1342 ppb	0.11668	2.27%
	QC value within limits for Cr 267.716 Recovery = 102.68%					
Cu 324.752†	1694.3	9.4027 ug/L	0.08344	9.4027 ppb	0.08344	0.89%
	QC value within limits for Cu 324.752 Recovery = 94.03%					
Fe 238.204 Radial†	7.4	81.812 ug/L	7.1285	81.812 ppb	7.1285	8.71%
	QC value within limits for Fe 238.204 Radial Recovery = 81.81%					
K 766.490 Radial†	744.7	128.90 ug/L	6.027	128.90 ppb	6.027	4.68%
	QC value within limits for K 766.490 Radial Recovery = 85.93%					
Mg 279.077 IEC†	17.7	282.62 ug/L	29.972	282.62 ppb	29.972	10.61%
	QC value within limits for Mg 279.077 IEC Recovery = 94.21%					
Mn 257.610†	4625.3	10.414 ug/L	0.0621	10.414 ppb	0.0621	0.60%
	QC value within limits for Mn 257.610 Recovery = 104.14%					
Mo 202.031†	227.2	9.7868 ug/L	0.14965	9.7868 ppb	0.14965	1.53%
	QC value within limits for Mo 202.031 Recovery = 97.87%					
Na 589.592 Radial†	1938.8	148.19 ug/L	1.523	148.19 ppb	1.523	1.03%
	QC value within limits for Na 589.592 Radial Recovery = 98.79%					
Ni 231.604†	161.9	5.0945 ug/L	0.04914	5.0945 ppb	0.04914	0.96%
	QC value within limits for Ni 231.604 Recovery = 101.89%					
P 214.914†	179.3	150.74 ug/L	10.670	150.74 ppb	10.670	7.08%
	QC value within limits for P 214.914 Recovery = 100.49%					
Pb 220.353†	77.2	9.8676 ug/L	1.14899	9.8676 ppb	1.14899	11.64%
	QC value within limits for Pb 220.353 Recovery = 98.68%					
S 181.975 Axial†	91.5	92.457 ug/L	0.5363	92.457 ppb	0.5363	0.58%
	QC value within limits for S 181.975 Axial Recovery = 92.46%					
Sb 206.836†	24.9	9.9981 ug/L	0.69365	9.9981 ppb	0.69365	6.94%
	QC value within limits for Sb 206.836 Recovery = 99.98%					
Se 196.026†	28.6	12.953 ug/L	1.4926	12.953 ppb	1.4926	11.52%
	QC value within limits for Se 196.026 Recovery = 86.35%					
Si 251.611†	1830.2	96.909 ug/L	1.2180	96.909 ppb	1.2180	1.26%
	QC value within limits for Si 251.611 Recovery = 96.91%					
Sn 189.927†	89.5	11.574 ug/L	0.3333	11.574 ppb	0.3333	2.88%
	QC value within limits for Sn 189.927 Recovery = 115.74%					
Sr 421.552†	2099.5	4.9182 ug/L	0.05373	4.9182 ppb	0.05373	1.09%
	QC value within limits for Sr 421.552 Recovery = 98.36%					
Ti 334.940†	2825.3	4.9435 ug/L	0.05277	4.9435 ppb	0.05277	1.07%
	QC value within limits for Ti 334.940 Recovery = 98.87%					
Tl 190.801†	44.1	19.989 ug/L	2.0921	19.989 ppb	2.0921	10.47%
	QC value within limits for Tl 190.801 Recovery = 99.94%					
U 409.014†	1159.9	57.159 ug/L	2.7495	57.159 ppb	2.7495	4.81%
	QC value within limits for U 409.014 Recovery = 114.32%					
V 292.402†	555.8	4.8060 ug/L	0.02127	4.8060 ppb	0.02127	0.44%
	QC value within limits for V 292.402 Recovery = 96.12%					
Zn 213.857†	832.1	10.155 ug/L	0.0992	10.155 ppb	0.0992	0.98%
	QC value within limits for Zn 213.857 Recovery = 101.55%					
SiO2†	1864.2	210.53 ug/L	5.246	210.53 ppb	5.246	2.49%
	QC value within limits for SiO2 Recovery = 98.84%					
All analyte(s) passed QC.						


```

=====
Sequence No.: 10                               Autosampler Location: 14
Sample ID: ICSAB                               Date Collected: 4/23/2007 18:21:41
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
User canceled analysis.
    
```

=====
Analysis Begun

```

Start Time: 4/23/2007 18:22:34                Plasma On Time: 4/23/2007 08:46:28
Logged In Analyst: optimal                     Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N1030502 Autosampler Model: AS-93plus
    
```

```

Sample Information File: C:\pe\optimal\Sample Information\042307.SIF
Batch ID:
Results Data Set: 042307
Results Library: C:\pe\optimal\Results\Results.mdb
    
```

```

=====
Sequence No.: 9                               Autosampler Location: 13
Sample ID: ICSA                               Date Collected: 4/23/2007 18:22:34
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
    
```

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	33208.2	33208.2	94.2 %		18:24:24
1	Y RADIAL	22751.6	22751.6	92.66 %		18:24:24
1	Al 396.153Radial†	1008072.0	1070375.8	492380 ug/L	492380 ppb	18:24:18
1	Ca 317.933Radial†	628434.6	667174.5	456850 ug/L	456850 ppb	18:24:18
1	Fe 238.204 Radial†	14897.4	15775.4	173970 ug/L	173970 ppb	18:24:24
1	K 766.490 Radial†	1415.6	483.5	112.89 ug/L	112.89 ppb	18:24:24
1	Mg 279.077 IEC†	27773.4	29485.7	471460 ug/L	471460 ppb	18:24:24
1	Na 589.592 Radial†	474.3	349.8	-63.362 ug/L	-63.362 ppb	18:24:24
1	Sr 421.552†	6322.4	6360.1	1.0696 ug/L	1.0696 ppb	18:24:24
1	Sc 361.383	845713.1	845713.1	87.347 %		18:24:54
1	Y 371.029	571407.1	571407.1	84.895 %		18:24:54
1	Ag 328.068†	-3210.1	-3744.9	-1.3421 ug/L	-1.3421 ppb	18:24:54
1	As 188.979†	-2.7	15.2	-1.4606 ug/L	-1.4606 ppb	18:25:14
1	B 249.677†	548.9	377.7	-97.774 ug/L	-97.774 ppb	18:24:54
1	Ba 233.527†	338.0	404.5	1.1821 ug/L	1.1821 ppb	18:25:14
1	Be 313.107†	-2960.1	-480.0	-0.4035 ug/L	-0.4035 ppb	18:24:54
1	Cd 226.502†	1005.9	1249.5	1.9869 ug/L	1.9869 ppb	18:25:14
1	Co 228.616†	15.4	45.7	1.4415 ug/L	1.4415 ppb	18:25:14
1	Cr 267.716†	-301.6	-307.7	-4.9347 ug/L	-4.9347 ppb	18:25:14
1	Cu 324.752†	1958.1	-990.9	0.2872 ug/L	0.2872 ppb	18:24:54
1	Mn 257.610†	-5115.7	-6006.2	-5.1647 ug/L	-5.1647 ppb	18:24:54
1	Mo 202.031†	-266.2	-324.2	-6.4517 ug/L	-6.4517 ppb	18:25:14
1	Ni 231.604†	79.9	-66.9	1.0488 ug/L	1.0488 ppb	18:25:14
1	P 214.914†	-116.6	38.6	52.666 ug/L	52.666 ppb	18:25:14
1	Pb 220.353†	-58.7	-138.6	0.5335 ug/L	0.5335 ppb	18:25:14
1	S 181.975 Axial†	114.6	94.7	-26.145 ug/L	-26.145 ppb	18:25:14
1	Sb 206.836†	59.1	43.5	3.9313 ug/L	3.9313 ppb	18:25:14
1	Se 196.026†	-950.0	-1081.0	-19.893 ug/L	-19.893 ppb	18:25:14
1	Si 251.611†	384.4	26.9	-119.81 ug/L	-119.81 ppb	18:25:14
1	Sn 189.927†	-201.0	-230.0	-1.4783 ug/L	-1.4783 ppb	18:25:14
1	Ti 334.940†	-26787.5	-31243.3	-2.0752 ug/L	-2.0752 ppb	18:24:54
1	Tl 190.801†	-39.8	-9.8	-14.026 ug/L	-14.026 ppb	18:25:14
1	U 409.014†	2099.8	2283.0	-4.7816 ug/L	-4.7816 ppb	18:24:54
1	V 292.402†	1263.8	1720.5	0.4390 ug/L	0.4390 ppb	18:25:14
1	Zn 213.857†	3488.7	3535.5	-6.7198 ug/L	-6.7198 ppb	18:25:14
1	SiO2†	549.7	226.9	25.620 ug/L	25.620 ppb	18:26:13
2	Sc Radial	33037.6	33037.6	93.7 %		18:24:35
2	Y RADIAL	22621.9	22621.9	92.13 %		18:24:35
2	Al 396.153Radial†	993031.2	1059851.8	487540 ug/L	487540 ppb	18:24:29

2	Ca 317.933Radial†	620121.8	661748.9	453140 ug/L	453140 ppb	18:24:29
2	Fe 238.204 Radial†	15041.2	16010.6	176570 ug/L	176570 ppb	18:24:35
2	K 766.490 Radial†	1420.6	496.5	114.93 ug/L	114.93 ppb	18:24:35
2	Mg 279.077 IEC†	27964.9	29842.4	477160 ug/L	477160 ppb	18:24:35
2	Na 589.592 Radial†	489.8	368.9	-61.052 ug/L	-61.052 ppb	18:24:35
2	Sr 421.552†	6378.8	6455.0	1.4045 ug/L	1.4045 ppb	18:24:35
2	Sc 361.383	847861.2	847861.2	87.569 %		18:25:20
2	Y 371.029	573439.4	573439.4	85.197 %		18:25:20
2	Ag 328.068†	-3118.8	-3631.4	0.4990 ug/L	0.4990 ppb	18:25:20
2	As 188.979†	8.0	27.5	4.7523 ug/L	4.7523 ppb	18:25:41
2	B 249.677†	615.1	451.6	-97.155 ug/L	-97.155 ppb	18:25:20
2	Ba 233.527†	328.2	392.4	0.9055 ug/L	0.9055 ppb	18:25:41
2	Be 313.107†	-3020.5	-540.3	-0.4350 ug/L	-0.4350 ppb	18:25:20
2	Cd 226.502†	1003.2	1243.5	1.6625 ug/L	1.6625 ppb	18:25:41
2	Co 228.616†	17.8	48.4	1.5216 ug/L	1.5216 ppb	18:25:41
2	Cr 267.716†	-302.2	-307.6	-4.9328 ug/L	-4.9328 ppb	18:25:41
2	Cu 324.752†	1994.5	-954.9	0.8243 ug/L	0.8243 ppb	18:25:20
2	Mn 257.610†	-5144.5	-6024.3	-5.0544 ug/L	-5.0544 ppb	18:25:20
2	Mo 202.031†	-270.1	-327.9	-6.4979 ug/L	-6.4979 ppb	18:25:41
2	Ni 231.604†	77.4	-70.0	0.9203 ug/L	0.9203 ppb	18:25:41
2	P 214.914†	-150.3	0.4	15.520 ug/L	15.520 ppb	18:25:41
2	Pb 220.353†	-59.1	-138.9	0.0015 ug/L	0.0015 ppb	18:25:41
2	S 181.975 Axial†	122.1	102.9	-16.752 ug/L	-16.752 ppb	18:25:41
2	Sb 206.836†	52.1	35.2	0.7264 ug/L	0.7264 ppb	18:25:41
2	Se 196.026†	-947.6	-1075.6	-13.035 ug/L	-13.035 ppb	18:25:41
2	Si 251.611†	406.7	51.3	-117.52 ug/L	-117.52 ppb	18:25:41
2	Sn 189.927†	-185.7	-211.9	0.8022 ug/L	0.8022 ppb	18:25:41
2	Ti 334.940†	-26883.4	-31275.1	-2.5619 ug/L	-2.5619 ppb	18:25:20
2	Tl 190.801†	-41.4	-11.6	-14.773 ug/L	-14.773 ppb	18:25:41
2	U 409.014†	2119.3	2299.2	-3.8515 ug/L	-3.8515 ppb	18:25:20
2	V 292.402†	1218.4	1665.0	-0.2911 ug/L	-0.2911 ppb	18:25:41
2	Zn 213.857†	3489.7	3526.5	-7.2557 ug/L	-7.2557 ppb	18:25:41
2	SiO2†	397.6	51.7	5.8353 ug/L	5.8353 ppb	18:26:18
3	Sc Radial	32822.8	32822.8	93.1 %		18:24:46
3	Y RADIAL	22461.8	22461.8	91.48 %		18:24:46
3	Al 396.153Radial†	1009290.8	1084253.7	498760 ug/L	498760 ppb	18:24:41
3	Ca 317.933Radial†	630728.7	677474.2	463910 ug/L	463910 ppb	18:24:41
3	Fe 238.204 Radial†	14911.8	15976.7	176190 ug/L	176190 ppb	18:24:46
3	K 766.490 Radial†	1438.4	525.6	120.68 ug/L	120.68 ppb	18:24:46
3	Mg 279.077 IEC†	27842.9	29906.6	478190 ug/L	478190 ppb	18:24:46
3	Na 589.592 Radial†	460.4	340.8	-65.331 ug/L	-65.331 ppb	18:24:46
3	Sr 421.552†	6338.4	6456.1	1.0811 ug/L	1.0811 ppb	18:24:46
3	Sc 361.383	849925.2	849925.2	87.782 %		18:25:47
3	Y 371.029	574803.8	574803.8	85.400 %		18:25:47
3	Ag 328.068†	-3244.4	-3765.8	-1.2462 ug/L	-1.2462 ppb	18:25:47
3	As 188.979†	-5.0	12.7	-2.8407 ug/L	-2.8407 ppb	18:26:07
3	B 249.677†	530.4	353.5	-99.905 ug/L	-99.905 ppb	18:25:47
3	Ba 233.527†	345.6	411.3	1.2221 ug/L	1.2221 ppb	18:26:07
3	Be 313.107†	-2992.4	-499.9	-0.4145 ug/L	-0.4145 ppb	18:25:47
3	Cd 226.502†	1004.0	1241.6	1.6669 ug/L	1.6669 ppb	18:26:07
3	Co 228.616†	27.9	59.8	1.8595 ug/L	1.8595 ppb	18:26:07
3	Cr 267.716†	-291.7	-294.8	-4.7276 ug/L	-4.7276 ppb	18:26:07
3	Cu 324.752†	1927.2	-1037.1	0.1022 ug/L	0.1022 ppb	18:25:47
3	Mn 257.610†	-5224.6	-6101.3	-5.2835 ug/L	-5.2835 ppb	18:25:47
3	Mo 202.031†	-273.0	-330.4	-6.6241 ug/L	-6.6241 ppb	18:26:07
3	Ni 231.604†	75.5	-72.5	0.9139 ug/L	0.9139 ppb	18:26:07
3	P 214.914†	-129.3	24.7	41.288 ug/L	41.288 ppb	18:26:07
3	Pb 220.353†	-55.3	-134.4	1.3235 ug/L	1.3235 ppb	18:26:07
3	S 181.975 Axial†	116.6	96.3	-26.234 ug/L	-26.234 ppb	18:26:07
3	Sb 206.836†	58.6	42.5	3.3440 ug/L	3.3440 ppb	18:26:07
3	Se 196.026†	-953.8	-1080.0	-13.455 ug/L	-13.455 ppb	18:26:07
3	Si 251.611†	365.4	3.1	-122.94 ug/L	-122.94 ppb	18:26:07
3	Sn 189.927†	-199.7	-227.4	-0.7075 ug/L	-0.7075 ppb	18:26:07
3	Ti 334.940†	-27030.9	-31368.6	-1.4749 ug/L	-1.4749 ppb	18:25:47
3	Tl 190.801†	-40.3	-10.2	-14.381 ug/L	-14.381 ppb	18:26:07
3	U 409.014†	1988.2	2143.9	-13.364 ug/L	-13.364 ppb	18:25:47
3	V 292.402†	1256.1	1704.6	0.0910 ug/L	0.0910 ppb	18:26:07
3	Zn 213.857†	3498.8	3527.1	-7.5202 ug/L	-7.5202 ppb	18:26:07
3	SiO2†	370.7	19.9	2.2463 ug/L	2.2463 ppb	18:26:23

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847833.1	87.566 %	0.2175			0.25%
Sc Radial	33022.9	93.7 %	0.55			0.58%
Y 371.029	573216.8	85.164 %	0.2540			0.30%
Y RADIAL	22611.8	92.09 %	0.591			0.64%
Ag 328.068†	-3714.0	-0.6964 ug/L	1.03639	-0.6964 ppb	1.03639	148.81%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 396.153Radial†	1071493.8	492890 ug/L	5630.1	492890 ppb	5630.1	1.14%
QC value within limits for Al 396.153Radial		Recovery = 98.58%				
As 188.979†	18.5	0.1504 ug/L	4.04467	0.1504 ppb	4.04467	>999.9%
QC value within limits for As 188.979		Recovery = Not calculated				
B 249.677†	394.3	-98.278 ug/L	1.4424	-98.278 ppb	1.4424	1.47%
QC value within limits for B 249.677		Recovery = Not calculated				
Ba 233.527†	402.8	1.1033 ug/L	0.17245	1.1033 ppb	0.17245	15.63%
QC value within limits for Ba 233.527		Recovery = Not calculated				
Be 313.107†	-506.7	-0.4177 ug/L	0.01602	-0.4177 ppb	0.01602	3.84%
QC value within limits for Be 313.107		Recovery = Not calculated				
Ca 317.933Radial†	668799.2	457970 ug/L	5469.5	457970 ppb	5469.5	1.19%
QC value within limits for Ca 317.933Radial		Recovery = 91.59%				
Cd 226.502†	1244.9	1.7721 ug/L	0.18607	1.7721 ppb	0.18607	10.50%
QC value within limits for Cd 226.502		Recovery = Not calculated				
Co 228.616†	51.3	1.6076 ug/L	0.22186	1.6076 ppb	0.22186	13.80%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	-303.4	-4.8650 ug/L	0.11902	-4.8650 ppb	0.11902	2.45%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 324.752†	-994.3	0.4046 ug/L	0.37505	0.4046 ppb	0.37505	92.71%
QC value within limits for Cu 324.752		Recovery = Not calculated				
Fe 238.204 Radial†	15920.9	175580 ug/L	1401.9	175580 ppb	1401.9	0.80%
QC value within limits for Fe 238.204 Radial		Recovery = 87.79%				
K 766.490 Radial†	501.9	116.17 ug/L	4.041	116.17 ppb	4.041	3.48%
QC value within limits for K 766.490 Radial		Recovery = Not calculated				
Mg 279.077 IEC†	29744.9	475600 ug/L	3625.8	475600 ppb	3625.8	0.76%
QC value within limits for Mg 279.077 IEC		Recovery = 95.12%				
Mn 257.610†	-6043.9	-5.1675 ug/L	0.11456	-5.1675 ppb	0.11456	2.22%
QC value within limits for Mn 257.610		Recovery = Not calculated				
Mo 202.031†	-327.5	-6.5246 ug/L	0.08922	-6.5246 ppb	0.08922	1.37%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 589.592 Radial†	353.2	-63.248 ug/L	2.1418	-63.248 ppb	2.1418	3.39%
QC value within limits for Na 589.592 Radial		Recovery = Not calculated				
Ni 231.604†	-69.8	0.9610 ug/L	0.07607	0.9610 ppb	0.07607	7.92%
QC value within limits for Ni 231.604		Recovery = Not calculated				
P 214.914†	21.2	36.491 ug/L	19.0320	36.491 ppb	19.0320	52.15%
QC value within limits for P 214.914		Recovery = Not calculated				
Pb 220.353†	-137.3	0.6195 ug/L	0.66516	0.6195 ppb	0.66516	107.37%
QC value within limits for Pb 220.353		Recovery = Not calculated				
S 181.975 Axial†	98.0	-23.043 ug/L	5.4487	-23.043 ppb	5.4487	23.65%
QC value within limits for S 181.975 Axial		Recovery = Not calculated				
Sb 206.836†	40.4	2.6672 ug/L	1.70628	2.6672 ppb	1.70628	63.97%
QC value within limits for Sb 206.836		Recovery = Not calculated				
Se 196.026†	-1078.9	-15.461 ug/L	3.8440	-15.461 ppb	3.8440	24.86%
QC value within limits for Se 196.026		Recovery = Not calculated				
Si 251.611†	27.1	-120.09 ug/L	2.723	-120.09 ppb	2.723	2.27%
QC value within limits for Si 251.611		Recovery = Not calculated				
Sn 189.927†	-223.1	-0.4612 ug/L	1.16004	-0.4612 ppb	1.16004	251.52%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Sr 421.552†	6423.7	1.1851 ug/L	0.19013	1.1851 ppb	0.19013	16.04%
QC value within limits for Sr 421.552		Recovery = Not calculated				
Ti 334.940†	-31295.7	-2.0373 ug/L	0.54448	-2.0373 ppb	0.54448	26.72%
QC value within limits for Ti 334.940		Recovery = Not calculated				
Tl 190.801†	-10.6	-14.393 ug/L	0.3740	-14.393 ppb	0.3740	2.60%
QC value within limits for Tl 190.801		Recovery = Not calculated				
U 409.014†	2242.0	-7.3323 ug/L	5.24405	-7.3323 ppb	5.24405	71.52%
QC value within limits for U 409.014		Recovery = Not calculated				
V 292.402†	1696.7	0.0796 ug/L	0.36516	0.0796 ppb	0.36516	458.47%
QC value within limits for V 292.402		Recovery = Not calculated				
Zn 213.857†	3529.7	-7.1653 ug/L	0.40783	-7.1653 ppb	0.40783	5.69%
QC value within limits for Zn 213.857		Recovery = Not calculated				
SiO2†	99.5	11.234 ug/L	12.5876	11.234 ppb	12.5876	112.05%
QC value within limits for SiO2		Recovery = Not calculated				

User canceled analysis.

=====
Analysis Begun

Start Time: 4/23/2007 18:27:21 Plasma On Time: 4/23/2007 08:46:28
Logged In Analyst: optimal Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N1030502 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optimal\Sample Information\042307.SIF
Batch ID:
Results Data Set: 042307
Results Library: C:\pe\optimal\Results\Results.mdb

=====
Sequence No.: 10 Autosampler Location: 14
Sample ID: ICSAB Date Collected: 4/23/2007 18:27:21
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	32923.0	32923.0	93.4 %		18:29:12
1	Y RADIAL	22695.4	22695.4	92.43 %		18:29:12
1	Al 396.153Radial†	1018621.5	1090946.4	501820 ug/L	501820 ppb	18:29:07
1	Ca 317.933Radial†	633438.1	678313.5	464480 ug/L	464480 ppb	18:29:07
1	Fe 238.204 Radial†	15158.8	16192.4	178590 ug/L	178590 ppb	18:29:12
1	K 766.490 Radial†	31037.9	32220.8	5606.7 ug/L	5606.7 ppb	18:29:12
1	Mg 279.077 IEC†	28167.7	30163.4	482300 ug/L	482300 ppb	18:29:12
1	Na 589.592 Radial†	66043.0	70575.6	5293.4 ug/L	5293.4 ppb	18:29:12
1	Sr 421.552†	202990.9	217042.5	494.67 ug/L	494.67 ppb	18:29:12
1	Sc 361.383	848231.2	848231.2	87.607 %		18:29:43
1	Y 371.029	576798.7	576798.7	85.696 %		18:29:43
1	Ag 328.068†	28194.3	32112.9	258.79 ug/L	258.79 ppb	18:29:43
1	As 188.979†	884.8	1028.3	483.64 ug/L	483.64 ppb	18:30:04
1	B 249.677†	14977.4	16845.3	398.29 ug/L	398.29 ppb	18:29:43
1	Ba 233.527†	26271.9	30006.0	479.47 ug/L	479.47 ppb	18:30:04
1	Be 313.107†	387379.6	445088.6	232.97 ug/L	232.97 ppb	18:29:43
1	Cd 226.502†	27221.9	31170.7	432.35 ug/L	432.35 ppb	18:30:04
1	Co 228.616†	12902.7	14756.1	436.20 ug/L	436.20 ppb	18:30:04
1	Cr 267.716†	24212.9	27675.6	450.70 ug/L	450.70 ppb	18:30:04
1	Cu 324.752†	85155.8	93969.7	527.34 ug/L	527.34 ppb	18:29:43
1	Mn 257.610†	172861.9	197166.1	453.05 ug/L	453.05 ppb	18:29:43
1	Mo 202.031†	9206.6	10489.6	459.31 ug/L	459.31 ppb	18:30:04
1	Ni 231.604†	11752.2	13256.3	420.26 ug/L	420.26 ppb	18:30:04
1	P 214.914†	2391.4	2901.7	2453.6 ug/L	2453.6 ppb	18:30:04
1	Pb 220.353†	2990.8	3342.5	447.37 ug/L	447.37 ppb	18:30:04
1	S 181.975 Axial†	2263.8	2547.5	2451.3 ug/L	2451.3 ppb	18:30:04
1	Sb 206.836†	1157.9	1297.5	509.02 ug/L	509.02 ppb	18:30:04
1	Se 196.026†	3698.4	4228.2	2355.9 ug/L	2355.9 ppb	18:30:04
1	Si 251.611†	84123.1	95610.3	4941.7 ug/L	4941.7 ppb	18:29:43
1	Sn 189.927†	2882.9	3290.8	454.24 ug/L	454.24 ppb	18:30:04
1	Ti 334.940†	216377.2	246411.4	486.51 ug/L	486.51 ppb	18:29:43
1	Tl 190.801†	815.2	966.2	430.76 ug/L	430.76 ppb	18:30:04
1	U 409.014†	10050.1	11350.9	437.46 ug/L	437.46 ppb	18:29:43
1	V 292.402†	47581.9	54586.6	463.50 ug/L	463.50 ppb	18:29:43
1	Zn 213.857†	36764.2	41506.3	456.36 ug/L	456.36 ppb	18:29:43
1	SiO2†	84587.0	96150.6	10859 ug/L	10859 ppb	18:31:02
2	Sc Radial	32922.1	32922.1	93.4 %		18:29:23
2	Y RADIAL	22650.0	22650.0	92.24 %		18:29:23
2	Al 396.153Radial†	1017268.1	1089527.3	501170 ug/L	501170 ppb	18:29:18
2	Ca 317.933Radial†	634678.3	679660.7	465410 ug/L	465410 ppb	18:29:18
2	Fe 238.204 Radial†	14999.3	16022.0	176710 ug/L	176710 ppb	18:29:23
2	K 766.490 Radial†	30431.8	31572.6	5494.6 ug/L	5494.6 ppb	18:29:23
2	Mg 279.077 IEC†	27650.2	29610.1	473450 ug/L	473450 ppb	18:29:23
2	Na 589.592 Radial†	64994.1	69454.2	5207.9 ug/L	5207.9 ppb	18:29:23
2	Sr 421.552†	199559.0	213373.0	486.04 ug/L	486.04 ppb	18:29:23
2	Sc 361.383	846870.4	846870.4	87.466 %		18:30:10

2	Y 371.029	576363.4	576363.4	85.631 %			18:30:10
2	Ag 328.068†	28283.5	32266.6	259.25 ug/L	259.25	ppb	18:30:10
2	As 188.979†	882.5	1027.3	482.98 ug/L	482.98	ppb	18:30:30
2	B 249.677†	15050.8	16956.8	402.85 ug/L	402.85	ppb	18:30:10
2	Ba 233.527†	26371.9	30168.6	482.16 ug/L	482.16	ppb	18:30:30
2	Be 313.107†	388010.6	446520.5	233.72 ug/L	233.72	ppb	18:30:10
2	Cd 226.502†	27274.2	31280.4	434.11 ug/L	434.11	ppb	18:30:30
2	Co 228.616†	12959.8	14845.0	438.84 ug/L	438.84	ppb	18:30:30
2	Cr 267.716†	24315.8	27837.7	453.34 ug/L	453.34	ppb	18:30:30
2	Cu 324.752†	85130.9	94097.4	527.89 ug/L	527.89	ppb	18:30:10
2	Mn 257.610†	172747.8	197352.6	453.45 ug/L	453.45	ppb	18:30:10
2	Mo 202.031†	9253.9	10560.5	462.28 ug/L	462.28	ppb	18:30:30
2	Ni 231.604†	11802.9	13335.7	422.75 ug/L	422.75	ppb	18:30:30
2	P 214.914†	2432.2	2952.8	2498.4 ug/L	2498.4	ppb	18:30:30
2	Pb 220.353†	2996.5	3354.5	449.01 ug/L	449.01	ppb	18:30:30
2	S 181.975 Axial†	2279.3	2569.4	2473.4 ug/L	2473.4	ppb	18:30:30
2	Sb 206.836†	1161.8	1304.1	511.62 ug/L	511.62	ppb	18:30:30
2	Se 196.026†	3717.8	4257.1	2364.7 ug/L	2364.7	ppb	18:30:30
2	Si 251.611†	84177.3	95826.5	4952.9 ug/L	4952.9	ppb	18:30:10
2	Sn 189.927†	2881.2	3294.2	454.60 ug/L	454.60	ppb	18:30:30
2	Ti 334.940†	216563.9	247021.6	487.69 ug/L	487.69	ppb	18:30:10
2	Tl 190.801†	805.1	956.2	426.18 ug/L	426.18	ppb	18:30:30
2	U 409.014†	10116.8	11445.6	442.35 ug/L	442.35	ppb	18:30:10
2	V 292.402†	47556.0	54644.3	464.11 ug/L	464.11	ppb	18:30:10
2	Zn 213.857†	36905.9	41735.8	459.71 ug/L	459.71	ppb	18:30:10
2	SiO2†	84362.7	96049.3	10847 ug/L	10847	ppb	18:31:08
3	Sc Radial	33246.3	33246.3	94.3 %			18:29:35
3	Y RADIAL	22866.7	22866.7	93.12 %			18:29:35
3	Al 396.153Radial†	1005748.6	1066687.5	490660 ug/L	490660	ppb	18:29:30
3	Ca 317.933Radial†	627774.9	665711.6	455850 ug/L	455850	ppb	18:29:30
3	Fe 238.204 Radial†	15178.8	16055.8	177080 ug/L	177080	ppb	18:29:35
3	K 766.490 Radial†	30817.3	31663.6	5509.7 ug/L	5509.7	ppb	18:29:35
3	Mg 279.077 IEC†	28082.0	29779.3	476160 ug/L	476160	ppb	18:29:35
3	Na 589.592 Radial†	65657.7	69479.2	5211.7 ug/L	5211.7	ppb	18:29:35
3	Sr 421.552†	201690.0	213549.1	486.74 ug/L	486.74	ppb	18:29:35
3	Sc 361.383	848787.6	848787.6	87.664 %			18:30:36
3	Y 371.029	577639.8	577639.8	85.821 %			18:30:36
3	Ag 328.068†	28414.1	32342.6	260.51 ug/L	260.51	ppb	18:30:36
3	As 188.979†	895.2	1039.5	489.28 ug/L	489.28	ppb	18:30:57
3	B 249.677†	15106.9	16981.9	403.38 ug/L	403.38	ppb	18:30:36
3	Ba 233.527†	26325.3	30047.3	480.19 ug/L	480.19	ppb	18:30:57
3	Be 313.107†	390344.0	448180.3	234.59 ug/L	234.59	ppb	18:30:36
3	Cd 226.502†	27318.1	31260.0	433.78 ug/L	433.78	ppb	18:30:57
3	Co 228.616†	12956.7	14807.9	437.74 ug/L	437.74	ppb	18:30:57
3	Cr 267.716†	24283.0	27737.6	451.71 ug/L	451.71	ppb	18:30:57
3	Cu 324.752†	85228.8	93989.2	527.54 ug/L	527.54	ppb	18:30:36
3	Mn 257.610†	173615.0	197895.7	454.66 ug/L	454.66	ppb	18:30:36
3	Mo 202.031†	9264.3	10548.5	461.78 ug/L	461.78	ppb	18:30:57
3	Ni 231.604†	11792.2	13293.1	421.35 ug/L	421.35	ppb	18:30:57
3	P 214.914†	2408.9	2919.9	2465.7 ug/L	2465.7	ppb	18:30:57
3	Pb 220.353†	3011.1	3363.4	449.46 ug/L	449.46	ppb	18:30:57
3	S 181.975 Axial†	2287.0	2572.3	2478.9 ug/L	2478.9	ppb	18:30:57
3	Sb 206.836†	1144.9	1281.8	502.95 ug/L	502.95	ppb	18:30:57
3	Se 196.026†	3718.2	4248.0	2359.4 ug/L	2359.4	ppb	18:30:57
3	Si 251.611†	84372.6	95832.0	4955.7 ug/L	4955.7	ppb	18:30:36
3	Sn 189.927†	2887.9	3294.4	454.24 ug/L	454.24	ppb	18:30:57
3	Ti 334.940†	217098.6	247072.4	486.67 ug/L	486.67	ppb	18:30:36
3	Tl 190.801†	810.1	959.8	428.04 ug/L	428.04	ppb	18:30:57
3	U 409.014†	10121.1	11424.3	442.93 ug/L	442.93	ppb	18:30:36
3	V 292.402†	47773.8	54769.9	465.22 ug/L	465.22	ppb	18:30:36
3	Zn 213.857†	37008.5	41757.5	460.07 ug/L	460.07	ppb	18:30:36
3	SiO2†	84336.7	95801.8	10819 ug/L	10819	ppb	18:31:13

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847963.1	87.579 %	0.1019			0.12%
Sc Radial	33030.5	93.7 %	0.53			0.57%
Y 371.029	576934.0	85.716 %	0.0964			0.11%
Y RADIAL	22737.4	92.60 %	0.465			0.50%

Ag 328.068†	32240.7	259.52 ug/L	0.893	259.52 ppb	0.893	0.34%
QC value within limits for Ag 328.068 Recovery = 103.81%						
Al 396.153Radial†	1082387.1	497890 ug/L	6262.9	497890 ppb	6262.9	1.26%
QC value within limits for Al 396.153Radial Recovery = 99.58%						
As 188.979†	1031.7	485.30 ug/L	3.460	485.30 ppb	3.460	0.71%
QC value within limits for As 188.979 Recovery = 97.06%						
B 249.677†	16928.0	401.51 ug/L	2.799	401.51 ppb	2.799	0.70%
QC value within limits for B 249.677 Recovery = 80.30%						
Ba 233.527†	30074.0	480.61 ug/L	1.388	480.61 ppb	1.388	0.29%
QC value within limits for Ba 233.527 Recovery = 96.12%						
Be 313.107†	446596.5	233.76 ug/L	0.807	233.76 ppb	0.807	0.35%
QC value within limits for Be 313.107 Recovery = 93.50%						
Ca 317.933Radial†	674561.9	461910 ug/L	5268.6	461910 ppb	5268.6	1.14%
QC value within limits for Ca 317.933Radial Recovery = 92.38%						
Cd 226.502†	31237.0	433.41 ug/L	0.933	433.41 ppb	0.933	0.22%
QC value within limits for Cd 226.502 Recovery = 86.68%						
Co 228.616†	14803.0	437.59 ug/L	1.322	437.59 ppb	1.322	0.30%
QC value within limits for Co 228.616 Recovery = 87.52%						
Cr 267.716†	27750.3	451.92 ug/L	1.331	451.92 ppb	1.331	0.29%
QC value within limits for Cr 267.716 Recovery = 90.38%						
Cu 324.752†	94018.7	527.59 ug/L	0.278	527.59 ppb	0.278	0.05%
QC value within limits for Cu 324.752 Recovery = 105.52%						
Fe 238.204 Radial†	16090.1	177460 ug/L	995.2	177460 ppb	995.2	0.56%
QC value within limits for Fe 238.204 Radial Recovery = 88.73%						
K 766.490 Radial†	31819.0	5537.0 ug/L	60.81	5537.0 ppb	60.81	1.10%
QC value within limits for K 766.490 Radial Recovery = 110.74%						
Mg 279.077 IEC†	29850.9	477300 ug/L	4534.2	477300 ppb	4534.2	0.95%
QC value within limits for Mg 279.077 IEC Recovery = 95.46%						
Mn 257.610†	197471.5	453.72 ug/L	0.839	453.72 ppb	0.839	0.18%
QC value within limits for Mn 257.610 Recovery = 90.74%						
Mo 202.031†	10532.9	461.12 ug/L	1.591	461.12 ppb	1.591	0.35%
QC value within limits for Mo 202.031 Recovery = 92.22%						
Na 589.592 Radial†	69836.3	5237.7 ug/L	48.27	5237.7 ppb	48.27	0.92%
QC value within limits for Na 589.592 Radial Recovery = 104.75%						
Ni 231.604†	13295.1	421.45 ug/L	1.251	421.45 ppb	1.251	0.30%
QC value within limits for Ni 231.604 Recovery = 84.29%						
P 214.914†	2924.8	2472.6 ug/L	23.18	2472.6 ppb	23.18	0.94%
QC value within limits for P 214.914 Recovery = 98.90%						
Pb 220.353†	3353.4	448.61 ug/L	1.098	448.61 ppb	1.098	0.24%
QC value within limits for Pb 220.353 Recovery = 89.72%						
S 181.975 Axial†	2563.1	2467.9 ug/L	14.62	2467.9 ppb	14.62	0.59%
QC value within limits for S 181.975 Axial Recovery = 98.71%						
Sb 206.836†	1294.5	507.86 ug/L	4.448	507.86 ppb	4.448	0.88%
QC value within limits for Sb 206.836 Recovery = 101.57%						
Se 196.026†	4244.4	2360.0 ug/L	4.45	2360.0 ppb	4.45	0.19%
QC value within limits for Se 196.026 Recovery = 94.40%						
Si 251.611†	95756.3	4950.1 ug/L	7.40	4950.1 ppb	7.40	0.15%
QC value within limits for Si 251.611 Recovery = 99.00%						
Sn 189.927†	3293.2	454.36 ug/L	0.211	454.36 ppb	0.211	0.05%
QC value within limits for Sn 189.927 Recovery = 90.87%						
Sr 421.552†	214654.9	489.15 ug/L	4.792	489.15 ppb	4.792	0.98%
QC value within limits for Sr 421.552 Recovery = 97.83%						
Ti 334.940†	246835.1	486.96 ug/L	0.638	486.96 ppb	0.638	0.13%
QC value within limits for Ti 334.940 Recovery = 97.39%						
Tl 190.801†	960.7	428.33 ug/L	2.304	428.33 ppb	2.304	0.54%
QC value within limits for Tl 190.801 Recovery = 85.67%						
U 409.014†	11406.9	440.91 ug/L	3.004	440.91 ppb	3.004	0.68%
QC value within limits for U 409.014 Recovery = 88.18%						
V 292.402†	54666.9	464.28 ug/L	0.872	464.28 ppb	0.872	0.19%
QC value within limits for V 292.402 Recovery = 92.86%						
Zn 213.857†	41666.6	458.71 ug/L	2.048	458.71 ppb	2.048	0.45%
QC value within limits for Zn 213.857 Recovery = 91.74%						
SiO2†	96000.5	10842 ug/L	20.3	10842 ppb	20.3	0.19%
QC value within limits for SiO2 Recovery = 101.37%						

All analyte(s) passed QC.

Sequence No.: 11
 Sample ID: LR1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 15
 Date Collected: 4/23/2007 18:33:23
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	33094.6	33094.6	93.9 %		18:35:14
1	Y RADIAL	22712.1	22712.1	92.50 %		18:35:14
1	Al 396.153Radial†	1027990.4	1095272.2	503810 ug/L	503810 ppb	18:35:09
1	Ca 317.933Radial†	641976.1	683892.8	468300 ug/L	468300 ppb	18:35:09
1	Fe 238.204 Radial†	15292.7	16250.9	179220 ug/L	179220 ppb	18:35:14
1	K 766.490 Radial†	1476.2	553.1	125.72 ug/L	125.72 ppb	18:35:14
1	Mg 279.077 IEC†	28368.1	30220.5	483200 ug/L	483200 ppb	18:35:14
1	Na 589.592 Radial†	2529989.7	2695317.0	205550 ug/L	205550 ppb	18:35:09
1	Sr 421.552†	6734.7	6822.5	1.8067 ug/L	1.8067 ppb	18:35:14
1	Sc 361.383	848740.1	848740.1	87.659 %		18:35:47
1	Y 371.029	574032.1	574032.1	85.285 %		18:35:47
1	Ag 328.068†	-2709.3	-3160.5	0.5589 ug/L	0.5589 ppb	18:36:08
1	As 188.979†	-0.3	18.0	-0.2339 ug/L	-0.2339 ppb	18:36:08
1	B 249.677†	435.4	246.0	-105.08 ug/L	-105.08 ppb	18:35:47
1	Ba 233.527†	312.9	374.6	0.8425 ug/L	0.8425 ppb	18:36:08
1	Be 313.107†	-7830.2	-6023.5	-3.2722 ug/L	-3.2722 ppb	18:35:47
1	Cd 226.502†	691.4	886.6	2.0994 ug/L	2.0994 ppb	18:36:08
1	Co 228.616†	75.9	114.6	3.4541 ug/L	3.4541 ppb	18:36:08
1	Cr 267.716†	132.0	188.2	8.9665 ug/L	8.9665 ppb	18:36:08
1	Cu 324.752†	2363.1	-536.9	3.0535 ug/L	3.0535 ppb	18:36:08
1	Mn 257.610†	-4945.1	-5790.7	-8.5007 ug/L	-8.5007 ppb	18:35:47
1	Mo 202.031†	-356.9	-426.5	-10.632 ug/L	-10.632 ppb	18:36:08
1	Ni 231.604†	111.3	-31.4	2.2390 ug/L	2.2390 ppb	18:36:08
1	P 214.914†	-135.9	16.9	34.835 ug/L	34.835 ppb	18:36:08
1	Pb 220.353†	14.4	-54.9	1.7615 ug/L	1.7615 ppb	18:36:08
1	S 181.975 Axial†	137.8	120.7	-2.8137 ug/L	-2.8137 ppb	18:36:08
1	Sb 206.836†	50.0	32.8	-0.6349 ug/L	-0.6349 ppb	18:36:08
1	Se 196.026†	-998.1	-1132.0	-22.123 ug/L	-22.123 ppb	18:36:08
1	Si 251.611†	247.0	-131.4	-131.15 ug/L	-131.15 ppb	18:36:08
1	Sn 189.927†	-229.9	-262.1	-4.9034 ug/L	-4.9034 ppb	18:36:08
1	Ti 334.940†	-23688.1	-27598.1	-2.0723 ug/L	-2.0723 ppb	18:35:47
1	Tl 190.801†	-55.3	-27.4	-11.983 ug/L	-11.983 ppb	18:36:08
1	U 409.014†	245812.1	280296.3	13716 ug/L	13716 ppb	18:35:47
1	V 292.402†	-1047.2	-921.0	-0.9962 ug/L	-0.9962 ppb	18:36:08
1	Zn 213.857†	3794.4	3870.0	-4.0497 ug/L	-4.0497 ppb	18:36:08
1	SiO2†	256.4	-109.9	-12.417 ug/L	-12.417 ppb	18:37:06
2	Sc Radial	32986.2	32986.2	93.6 %		18:35:27
2	Y RADIAL	22700.4	22700.4	92.45 %		18:35:27
2	Al 396.153Radial†	1035508.8	1106908.8	509160 ug/L	509160 ppb	18:35:22
2	Ca 317.933Radial†	647286.3	691817.2	473730 ug/L	473730 ppb	18:35:22
2	Fe 238.204 Radial†	15150.3	16152.2	178130 ug/L	178130 ppb	18:35:27
2	K 766.490 Radial†	1487.0	569.9	128.98 ug/L	128.98 ppb	18:35:27
2	Mg 279.077 IEC†	28215.9	30157.1	482190 ug/L	482190 ppb	18:35:27
2	Na 589.592 Radial†	2546693.5	2722032.2	207580 ug/L	207580 ppb	18:35:22
2	Sr 421.552†	6716.2	6826.3	1.6513 ug/L	1.6513 ppb	18:35:27
2	Sc 361.383	846599.7	846599.7	87.438 %		18:36:14
2	Y 371.029	572702.2	572702.2	85.087 %		18:36:14
2	Ag 328.068†	-2629.3	-3076.9	0.4675 ug/L	0.4675 ppb	18:36:34
2	As 188.979†	5.0	24.1	2.2992 ug/L	2.2992 ppb	18:36:34
2	B 249.677†	428.7	239.5	-104.59 ug/L	-104.59 ppb	18:36:14
2	Ba 233.527†	339.5	405.9	1.3824 ug/L	1.3824 ppb	18:36:34
2	Be 313.107†	-7847.8	-6066.3	-3.2954 ug/L	-3.2954 ppb	18:36:14
2	Cd 226.502†	693.8	891.3	2.2819 ug/L	2.2819 ppb	18:36:34
2	Co 228.616†	72.0	110.4	3.3308 ug/L	3.3308 ppb	18:36:34
2	Cr 267.716†	119.2	173.9	8.7485 ug/L	8.7485 ppb	18:36:34
2	Cu 324.752†	2413.4	-472.4	3.2010 ug/L	3.2010 ppb	18:36:34
2	Mn 257.610†	-4993.7	-5860.5	-8.7587 ug/L	-8.7587 ppb	18:36:14
2	Mo 202.031†	-361.3	-432.6	-10.939 ug/L	-10.939 ppb	18:36:34
2	Ni 231.604†	112.5	-29.8	2.3253 ug/L	2.3253 ppb	18:36:34

2	P 214.914†	-120.6	34.1	52.883 ug/L	52.883 ppb	18:36:34
2	Pb 220.353†	3.6	-67.3	0.5671 ug/L	0.5671 ppb	18:36:34
2	S 181.975 Axial†	130.1	112.2	-12.747 ug/L	-12.747 ppb	18:36:34
2	Sb 206.836†	39.5	21.0	-5.5340 ug/L	-5.5340 ppb	18:36:34
2	Se 196.026†	-1009.9	-1148.5	-30.536 ug/L	-30.536 ppb	18:36:34
2	Si 251.611†	256.8	-119.5	-131.96 ug/L	-131.96 ppb	18:36:34
2	Sn 189.927†	-218.5	-249.8	-3.0942 ug/L	-3.0942 ppb	18:36:34
2	Ti 334.940†	-23795.1	-27788.9	-1.7982 ug/L	-1.7982 ppb	18:36:14
2	Tl 190.801†	-45.6	-16.4	-7.1390 ug/L	-7.1390 ppb	18:36:34
2	U 409.014†	245794.1	280984.7	13749 ug/L	13749 ppb	18:36:14
2	V 292.402†	-1052.2	-929.7	-0.9117 ug/L	-0.9117 ppb	18:36:34
2	Zn 213.857†	3808.6	3897.1	-3.6928 ug/L	-3.6928 ppb	18:36:34
2	SiO2†	265.9	-98.3	-11.099 ug/L	-11.099 ppb	18:37:11
3	Sc Radial	33092.0	33092.0	93.9 %		18:35:39
3	Y RADIAL	22706.9	22706.9	92.47 %		18:35:39
3	Al 396.153Radial†	1023066.8	1090112.8	501440 ug/L	501440 ppb	18:35:34
3	Ca 317.933Radial†	639002.2	680778.2	466170 ug/L	466170 ppb	18:35:34
3	Fe 238.204 Radial†	15130.2	16079.1	177320 ug/L	177320 ppb	18:35:39
3	K 766.490 Radial†	1470.2	546.8	124.49 ug/L	124.49 ppb	18:35:39
3	Mg 279.077 IEC†	28363.5	30218.1	483170 ug/L	483170 ppb	18:35:39
3	Na 589.592 Radial†	2515189.5	2679760.9	204360 ug/L	204360 ppb	18:35:34
3	Sr 421.552†	6696.6	6782.5	1.7775 ug/L	1.7775 ppb	18:35:39
3	Sc 361.383	844416.9	844416.9	87.213 %		18:36:40
3	Y 371.029	572145.6	572145.6	85.005 %		18:36:40
3	Ag 328.068†	-2607.8	-3060.0	0.8154 ug/L	0.8154 ppb	18:37:00
3	As 188.979†	16.9	37.7	9.1311 ug/L	9.1311 ppb	18:37:00
3	B 249.677†	488.2	309.1	-101.97 ug/L	-101.97 ppb	18:36:40
3	Ba 233.527†	336.3	403.2	1.3644 ug/L	1.3644 ppb	18:37:00
3	Be 313.107†	-7839.7	-6080.1	-3.3032 ug/L	-3.3032 ppb	18:36:40
3	Cd 226.502†	719.9	923.4	2.8153 ug/L	2.8153 ppb	18:37:00
3	Co 228.616†	74.3	113.3	3.4184 ug/L	3.4184 ppb	18:37:00
3	Cr 267.716†	155.7	216.1	9.4327 ug/L	9.4327 ppb	18:37:00
3	Cu 324.752†	2464.4	-406.9	3.6499 ug/L	3.6499 ppb	18:37:00
3	Mn 257.610†	-4923.9	-5795.3	-8.7101 ug/L	-8.7101 ppb	18:36:40
3	Mo 202.031†	-342.1	-411.7	-10.074 ug/L	-10.074 ppb	18:37:00
3	Ni 231.604†	131.9	-7.2	2.9872 ug/L	2.9872 ppb	18:37:00
3	P 214.914†	-135.6	16.5	35.573 ug/L	35.573 ppb	18:37:00
3	Pb 220.353†	17.7	-51.1	2.2221 ug/L	2.2221 ppb	18:37:00
3	S 181.975 Axial†	127.2	109.4	-13.701 ug/L	-13.701 ppb	18:37:00
3	Sb 206.836†	46.9	29.5	-1.8908 ug/L	-1.8908 ppb	18:37:00
3	Se 196.026†	-1000.1	-1140.2	-29.982 ug/L	-29.982 ppb	18:37:00
3	Si 251.611†	294.6	-75.3	-127.62 ug/L	-127.62 ppb	18:37:00
3	Sn 189.927†	-195.5	-224.1	-0.1145 ug/L	-0.1145 ppb	18:37:00
3	Ti 334.940†	-23841.6	-27912.6	-2.8880 ug/L	-2.8880 ppb	18:36:40
3	Tl 190.801†	-55.0	-27.4	-11.939 ug/L	-11.939 ppb	18:37:00
3	U 409.014†	245054.5	280863.3	13745 ug/L	13745 ppb	18:36:40
3	V 292.402†	-1033.8	-911.7	-0.7133 ug/L	-0.7133 ppb	18:37:00
3	Zn 213.857†	3793.8	3891.4	-3.5139 ug/L	-3.5139 ppb	18:37:00
3	SiO2†	329.7	-24.4	-2.7571 ug/L	-2.7571 ppb	18:37:16

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	846585.6	87.437 %	0.2233			0.26%
Sc Radial	33057.6	93.8 %	0.18			0.19%
Y 371.029	572960.0	85.126 %	0.1440			0.17%
Y RADIAL	22706.5	92.47 %	0.024			0.03%
Ag 328.068†	-3099.1	0.6139 ug/L	0.18039	0.6139 ppb	0.18039	29.38%
Al 396.153Radial†	1097431.3	504800 ug/L	3957.7	504800 ppb	3957.7	0.78%
QC value within limits for Al 396.153Radial Recovery = 100.96%						
As 188.979†	26.6	3.7321 ug/L	4.84413	3.7321 ppb	4.84413	129.80%
B 249.677†	264.8	-103.88 ug/L	1.672	-103.88 ppb	1.672	1.61%
Ba 233.527†	394.6	1.1964 ug/L	0.30666	1.1964 ppb	0.30666	25.63%
Be 313.107†	-6056.6	-3.2902 ug/L	0.01613	-3.2902 ppb	0.01613	0.49%
Ca 317.933Radial†	685496.0	469400 ug/L	3897.3	469400 ppb	3897.3	0.83%
QC value within limits for Ca 317.933Radial Recovery = 93.88%						
Cd 226.502†	900.4	2.3989 ug/L	0.37197	2.3989 ppb	0.37197	15.51%
Co 228.616†	112.8	3.4011 ug/L	0.06345	3.4011 ppb	0.06345	1.87%
Cr 267.716†	192.7	9.0492 ug/L	0.34951	9.0492 ppb	0.34951	3.86%
Cu 324.752†	-472.1	3.3015 ug/L	0.31064	3.3015 ppb	0.31064	9.41%

Fe 238.204 Radial†	16160.7	178220 ug/L	951.2	178220 ppb	951.2	0.53%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 89.11%						
K 766.490 Radial†	556.6	126.40 ug/L	2.324	126.40 ppb	2.324	1.84%
Mg 279.077 IEC†	30198.6	482850 ug/L	574.1	482850 ppb	574.1	0.12%
QC value within limits for Mg 279.077 IEC Recovery = 96.57%						
Mn 257.610†	-5815.5	-8.6565 ug/L	0.13707	-8.6565 ppb	0.13707	1.58%
Mo 202.031†	-423.6	-10.548 ug/L	0.4384	-10.548 ppb	0.4384	4.16%
Na 589.592 Radial†	2699036.7	205830 ug/L	1629.8	205830 ppb	1629.8	0.79%
QC value within limits for Na 589.592 Radial Recovery = 102.91%						
Ni 231.604†	-22.8	2.5172 ug/L	0.40934	2.5172 ppb	0.40934	16.26%
P 214.914†	22.5	41.097 ug/L	10.2137	41.097 ppb	10.2137	24.85%
Pb 220.353†	-57.8	1.5169 ug/L	0.85416	1.5169 ppb	0.85416	56.31%
S 181.975 Axial†	114.1	-9.7539 ug/L	6.02923	-9.7539 ppb	6.02923	61.81%
Sb 206.836†	27.8	-2.6866 ug/L	2.54463	-2.6866 ppb	2.54463	94.72%
Se 196.026†	-1140.2	-27.547 ug/L	4.7054	-27.547 ppb	4.7054	17.08%
Si 251.611†	-108.7	-130.24 ug/L	2.306	-130.24 ppb	2.306	1.77%
Sn 189.927†	-245.3	-2.7040 ug/L	2.41814	-2.7040 ppb	2.41814	89.43%
Sr 421.552†	6810.4	1.7452 ug/L	0.08261	1.7452 ppb	0.08261	4.73%
Ti 334.940†	-27766.5	-2.2529 ug/L	0.56689	-2.2529 ppb	0.56689	25.16%
Tl 190.801†	-23.7	-10.354 ug/L	2.7841	-10.354 ppb	2.7841	26.89%
U 409.014†	280714.8	13737 ug/L	18.0	13737 ppb	18.0	0.13%
QC value within limits for U 409.014 Recovery = 91.58%						
V 292.402†	-920.8	-0.8737 ug/L	0.14519	-0.8737 ppb	0.14519	16.62%
Zn 213.857†	3886.2	-3.7521 ug/L	0.27280	-3.7521 ppb	0.27280	7.27%
SiO2†	-77.5	-8.7578 ug/L	5.23834	-8.7578 ppb	5.23834	59.81%
QC Failed. Continue with analysis.						

Sequence No.: 12

Autosampler Location: 16

Sample ID: LR2

Date Collected: 4/23/2007 18:39:27

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	36105.2	36105.2	102 %		18:41:18
1	Y RADIAL	25092.2	25092.2	102.2 %		18:41:18
1	Al 396.153Radial†	1236.0	1250.2	201.76 ug/L	201.76 ppb	18:41:18
1	Ca 317.933Radial†	248.2	168.7	152.84 ug/L	152.84 ppb	18:41:38
1	Fe 238.204 Radial†	-6.9	-48.8	-184.55 ug/L	-184.55 ppb	18:41:38
1	K 766.490 Radial†	181852.6	176572.4	30562 ug/L	30562 ppb	18:41:18
1	Mg 279.077 IEC†	-12.9	-15.7	-38.603 ug/L	-38.603 ppb	18:41:38
1	Na 589.592 Radial†	1456.9	1268.9	96.942 ug/L	96.942 ppb	18:41:18
1	Sr 421.552†	4247520.9	4147652.3	9721.9 ug/L	9721.9 ppb	18:41:13
1	Sc 361.383	974166.0	974166.0	100.61 %		18:43:05
1	Y 371.029	673813.7	673813.7	100.11 %		18:43:05
1	Ag 328.068†	-11264.3	-11265.4	4.2258 ug/L	4.2258 ppb	18:43:11
1	As 188.979†	20089.3	19985.2	9587.1 ug/L	9587.1 ppb	18:43:11
1	B 249.677†	166554.3	165287.8	4984.1 ug/L	4984.1 ppb	18:43:05
1	Ba 233.527†	903474.4	897982.0	14503 ug/L	14503 ppb	18:43:05
1	Be 313.107†	5661687.4	5630067.4	2959.1 ug/L	2959.1 ppb	18:42:57
1	Cd 226.502†	696944.2	692791.6	9970.2 ug/L	9970.2 ppb	18:43:05
1	Co 228.616†	344223.0	342151.7	10111 ug/L	10111 ppb	18:43:05
1	Cr 267.716†	1507199.8	1498045.4	24362 ug/L	24362 ppb	18:43:05
1	Cu 324.752†	3662028.4	3636462.2	20179 ug/L	20179 ppb	18:43:05
1	Mn 257.610†	4335209.1	4308620.4	9714.3 ug/L	9714.3 ppb	18:42:57
1	Mo 202.031†	226605.4	225204.0	9695.6 ug/L	9695.6 ppb	18:43:05
1	Ni 231.604†	320618.3	318504.5	10019 ug/L	10019 ppb	18:43:05
1	P 214.914†	17682.1	17746.3	14653 ug/L	14653 ppb	18:43:11
1	Pb 220.353†	199228.6	197942.2	25358 ug/L	25358 ppb	18:43:05
1	S 181.975 Axial†	48719.2	48385.6	48915 ug/L	48915 ppb	18:43:11
1	Sb 206.836†	27114.3	26924.7	10877 ug/L	10877 ppb	18:43:11
1	Se 196.026†	22541.0	22410.1	9978.2 ug/L	9978.2 ppb	18:43:11
1	Si 251.611†	879581.6	873804.1	46160 ug/L	46160 ppb	18:43:05
1	Sn 189.927†	78665.6	78186.0	10108 ug/L	10108 ppb	18:43:11
1	Ti 334.940†	5627772.3	5592874.9	9823.6 ug/L	9823.6 ppb	18:42:57
1	Tl 190.801†	22347.8	22247.2	10118 ug/L	10118 ppb	18:43:11
1	U 409.014†	954.3	827.5	-40.787 ug/L	-40.787 ppb	18:43:11
1	V 292.402†	1102365.0	1095915.6	9588.4 ug/L	9588.4 ppb	18:43:05
1	Zn 213.857†	406727.3	403788.1	4902.7 ug/L	4902.7 ppb	18:43:05
1	SiO2†	880949.6	875174.5	98836 ug/L	98836 ppb	18:44:08
2	Sc Radial	35610.7	35610.7	101 %		18:41:50
2	Y RADIAL	24731.4	24731.4	100.7 %		18:41:50
2	Al 396.153Radial†	1192.6	1224.0	188.66 ug/L	188.66 ppb	18:41:50
2	Ca 317.933Radial†	239.4	163.5	149.34 ug/L	149.34 ppb	18:42:10
2	Fe 238.204 Radial†	-4.9	-47.0	-163.13 ug/L	-163.13 ppb	18:42:10
2	K 766.490 Radial†	179497.7	176706.6	30586 ug/L	30586 ppb	18:41:50
2	Mg 279.077 IEC†	-13.1	-16.1	-43.953 ug/L	-43.953 ppb	18:42:10
2	Na 589.592 Radial†	1312.1	1145.3	87.519 ug/L	87.519 ppb	18:41:50
2	Sr 421.552†	4291524.8	4248819.9	9959.0 ug/L	9959.0 ppb	18:41:45
2	Sc 361.383	970404.5	970404.5	100.23 %		18:43:31
2	Y 371.029	671206.9	671206.9	99.722 %		18:43:31
2	Ag 328.068†	-11197.2	-11241.8	4.6085 ug/L	4.6085 ppb	18:43:36
2	As 188.979†	20014.1	19987.5	9588.1 ug/L	9588.1 ppb	18:43:36
2	B 249.677†	166369.7	165745.3	4998.0 ug/L	4998.0 ppb	18:43:31
2	Ba 233.527†	902467.4	900457.9	14543 ug/L	14543 ppb	18:43:31
2	Be 313.107†	5614803.1	5605100.1	2946.0 ug/L	2946.0 ppb	18:43:21
2	Cd 226.502†	696498.3	695031.7	10002 ug/L	10002 ppb	18:43:31
2	Co 228.616†	343553.3	342809.7	10131 ug/L	10131 ppb	18:43:31
2	Cr 267.716†	1506211.7	1502866.0	24441 ug/L	24441 ppb	18:43:31
2	Cu 324.752†	3653066.6	3641628.5	20207 ug/L	20207 ppb	18:43:31
2	Mn 257.610†	4303395.1	4293579.3	9680.4 ug/L	9680.4 ppb	18:43:21
2	Mo 202.031†	226358.5	225830.7	9722.5 ug/L	9722.5 ppb	18:43:31
2	Ni 231.604†	320343.7	319465.7	10049 ug/L	10049 ppb	18:43:31

2	P 214.914†	17623.2	17755.6	14661 ug/L	14661 ppb	18:43:36
2	Pb 220.353†	199136.7	198618.0	25444 ug/L	25444 ppb	18:43:31
2	S 181.975 Axial†	48505.2	48359.7	48889 ug/L	48889 ppb	18:43:36
2	Sb 206.836†	26938.0	26853.2	10848 ug/L	10848 ppb	18:43:36
2	Se 196.026†	22492.5	22448.5	9995.3 ug/L	9995.3 ppb	18:43:36
2	Si 251.611†	878278.2	875892.3	46270 ug/L	46270 ppb	18:43:31
2	Sn 189.927†	78345.0	78169.1	10106 ug/L	10106 ppb	18:43:36
2	Ti 334.940†	5576911.4	5563809.2	9772.4 ug/L	9772.4 ppb	18:43:21
2	Tl 190.801†	22307.5	22293.1	10138 ug/L	10138 ppb	18:43:36
2	U 409.014†	949.0	825.9	-40.773 ug/L	-40.773 ppb	18:43:36
2	V 292.402†	1100810.6	1098611.6	9611.9 ug/L	9611.9 ppb	18:43:31
2	Zn 213.857†	406476.6	405104.9	4918.8 ug/L	4918.8 ppb	18:43:31
2	SiO2†	885297.5	882906.5	99709 ug/L	99709 ppb	18:44:14
3	Sc Radial	35762.0	35762.0	101 %		18:42:23
3	Y RADIAL	24889.9	24889.9	101.4 %		18:42:23
3	Al 396.153Radial†	1182.4	1208.9	183.12 ug/L	183.12 ppb	18:42:23
3	Ca 317.933Radial†	227.0	150.2	140.15 ug/L	140.15 ppb	18:42:43
3	Fe 238.204 Radial†	-6.5	-48.5	-180.28 ug/L	-180.28 ppb	18:42:43
3	K 766.490 Radial†	180963.2	177399.6	30706 ug/L	30706 ppb	18:42:23
3	Mg 279.077 IEC†	-13.9	-16.7	-55.784 ug/L	-55.784 ppb	18:42:43
3	Na 589.592 Radial†	1275.9	1104.1	84.360 ug/L	84.360 ppb	18:42:23
3	Sr 421.552†	4251879.9	4191754.3	9825.3 ug/L	9825.3 ppb	18:42:18
3	Sc 361.383	981351.1	981351.1	101.36 %		18:43:55
3	Y 371.029	678568.7	678568.7	100.82 %		18:43:55
3	Ag 328.068†	-11202.2	-11122.2	5.1953 ug/L	5.1953 ppb	18:44:00
3	As 188.979†	20014.8	19765.5	9482.0 ug/L	9482.0 ppb	18:44:00
3	B 249.677†	168090.5	165591.4	4993.4 ug/L	4993.4 ppb	18:43:55
3	Ba 233.527†	909790.9	897639.4	14498 ug/L	14498 ppb	18:43:55
3	Be 313.107†	5655390.4	5582654.4	2934.2 ug/L	2934.2 ppb	18:43:46
3	Cd 226.502†	703028.0	693722.3	9983.6 ug/L	9983.6 ppb	18:43:55
3	Co 228.616†	346852.5	342241.2	10114 ug/L	10114 ppb	18:43:55
3	Cr 267.716†	1518418.7	1498146.3	24364 ug/L	24364 ppb	18:43:55
3	Cu 324.752†	3677085.7	3624669.4	20113 ug/L	20113 ppb	18:43:55
3	Mn 257.610†	4331751.0	4273661.3	9635.5 ug/L	9635.5 ppb	18:43:46
3	Mo 202.031†	228062.5	224992.6	9686.5 ug/L	9686.5 ppb	18:43:55
3	Ni 231.604†	323115.6	318635.3	10023 ug/L	10023 ppb	18:43:55
3	P 214.914†	17670.1	17605.8	14536 ug/L	14536 ppb	18:44:00
3	Pb 220.353†	200938.8	198179.7	25388 ug/L	25388 ppb	18:43:55
3	S 181.975 Axial†	48389.2	47705.4	48227 ug/L	48227 ppb	18:44:00
3	Sb 206.836†	26862.1	26478.6	10697 ug/L	10697 ppb	18:44:00
3	Se 196.026†	22422.9	22129.5	9853.2 ug/L	9853.2 ppb	18:44:00
3	Si 251.611†	886565.1	874293.5	46186 ug/L	46186 ppb	18:43:55
3	Sn 189.927†	78301.4	77254.2	9988.0 ug/L	9988.0 ppb	18:44:00
3	Ti 334.940†	5615178.3	5539496.0	9729.7 ug/L	9729.7 ppb	18:43:46
3	Tl 190.801†	22370.1	22106.6	10053 ug/L	10053 ppb	18:44:00
3	U 409.014†	910.3	777.2	-42.835 ug/L	-42.835 ppb	18:44:00
3	V 292.402†	1109803.2	1095232.4	9582.6 ug/L	9582.6 ppb	18:43:55
3	Zn 213.857†	409628.8	403691.1	4901.7 ug/L	4901.7 ppb	18:43:55
3	SiO2†	877640.9	865499.4	97743 ug/L	97743 ppb	18:44:21

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	975307.2	100.73 %	0.574			0.57%
Sc Radial	35826.0	102 %	0.7			0.71%
Y 371.029	674529.8	100.22 %	0.555			0.55%
Y RADIAL	24904.5	101.4 %	0.74			0.73%
Ag 328.068†	-11209.8	4.6765 ug/L	0.48830	4.6765 ppb	0.48830	10.44%
Al 396.153Radial†	1227.7	191.18 ug/L	9.570	191.18 ppb	9.570	5.01%
As 188.979†	19912.7	9552.4 ug/L	61.01	9552.4 ppb	61.01	0.64%
QC value within limits for As 188.979 Recovery = 95.52%						
B 249.677†	165541.5	4991.8 ug/L	7.04	4991.8 ppb	7.04	0.14%
QC value within limits for B 249.677 Recovery = 99.84%						
Ba 233.527†	898693.1	14515 ug/L	24.8	14515 ppb	24.8	0.17%
QC value within limits for Ba 233.527 Recovery = 96.76%						
Be 313.107†	5605940.6	2946.4 ug/L	12.48	2946.4 ppb	12.48	0.42%
QC value within limits for Be 313.107 Recovery = 98.21%						
Ca 317.933Radial†	160.8	147.44 ug/L	6.558	147.44 ppb	6.558	4.45%
Cd 226.502†	693848.5	9985.4 ug/L	16.19	9985.4 ppb	16.19	0.16%
QC value within limits for Cd 226.502 Recovery = 99.85%						

Co 228.616†	342400.9	10119 ug/L	10.6	10119 ppb	10.6	0.10%
QC value within limits for Co 228.616 Recovery = 101.19%						
Cr 267.716†	1499685.9	24389 ug/L	44.8	24389 ppb	44.8	0.18%
QC value within limits for Cr 267.716 Recovery = 97.56%						
Cu 324.752†	3634253.4	20166 ug/L	48.2	20166 ppb	48.2	0.24%
QC value within limits for Cu 324.752 Recovery = 100.83%						
Fe 238.204 Radial†	-48.1	-175.99 ug/L	11.338	-175.99 ppb	11.338	6.44%
K 766.490 Radial†	176892.9	30618 ug/L	76.8	30618 ppb	76.8	0.25%
QC value within limits for K 766.490 Radial Recovery = 102.06%						
Mg 279.077 IEC†	-16.2	-46.113 ug/L	8.7923	-46.113 ppb	8.7923	19.07%
Mn 257.610†	4291953.7	9676.7 ug/L	39.54	9676.7 ppb	39.54	0.41%
QC value within limits for Mn 257.610 Recovery = 96.77%						
Mo 202.031†	225342.4	9701.5 ug/L	18.77	9701.5 ppb	18.77	0.19%
QC value within limits for Mo 202.031 Recovery = 97.02%						
Na 589.592 Radial†	1172.8	89.607 ug/L	6.5459	89.607 ppb	6.5459	7.31%
Ni 231.604†	318868.5	10030 ug/L	16.4	10030 ppb	16.4	0.16%
QC value within limits for Ni 231.604 Recovery = 100.30%						
P 214.914†	17702.6	14617 ug/L	70.0	14617 ppb	70.0	0.48%
QC value within limits for P 214.914 Recovery = 97.44%						
Pb 220.353†	198246.6	25397 ug/L	43.9	25397 ppb	43.9	0.17%
QC value within limits for Pb 220.353 Recovery = 101.59%						
S 181.975 Axial†	48150.3	48677 ug/L	389.7	48677 ppb	389.7	0.80%
QC value within limits for S 181.975 Axial Recovery = 97.35%						
Sb 206.836†	26752.2	10808 ug/L	96.6	10808 ppb	96.6	0.89%
QC value within limits for Sb 206.836 Recovery = 108.08%						
Se 196.026†	22329.4	9942.2 ug/L	77.57	9942.2 ppb	77.57	0.78%
QC value within limits for Se 196.026 Recovery = 99.42%						
Si 251.611†	874663.3	46205 ug/L	57.6	46205 ppb	57.6	0.12%
QC value within limits for Si 251.611 Recovery = 92.41%						
Sn 189.927†	77869.8	10068 ug/L	68.9	10068 ppb	68.9	0.68%
QC value within limits for Sn 189.927 Recovery = 100.68%						
Sr 421.552†	4196075.5	9835.4 ug/L	118.89	9835.4 ppb	118.89	1.21%
QC value within limits for Sr 421.552 Recovery = 98.35%						
Ti 334.940†	5565393.4	9775.2 ug/L	46.98	9775.2 ppb	46.98	0.48%
QC value within limits for Ti 334.940 Recovery = 97.75%						
Tl 190.801†	22215.7	10103 ug/L	44.3	10103 ppb	44.3	0.44%
QC value within limits for Tl 190.801 Recovery = 101.03%						
U 409.014†	810.2	-41.465 ug/L	1.1862	-41.465 ppb	1.1862	2.86%
V 292.402†	1096586.5	9594.3 ug/L	15.55	9594.3 ppb	15.55	0.16%
QC value within limits for V 292.402 Recovery = 95.94%						
Zn 213.857†	404194.7	4907.7 ug/L	9.59	4907.7 ppb	9.59	0.20%
QC value within limits for Zn 213.857 Recovery = 98.15%						
SiO2†	874526.8	98763 ug/L	985.0	98763 ppb	985.0	1.00%
QC value within limits for SiO2 Recovery = 92.30%						

All analyte(s) passed QC.

Sequence No.: 13

Autosampler Location: 7

Sample ID: CCV

Date Collected: 4/23/2007 18:46:31

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35736.5	35736.5	101 %		18:48:15
1	Y RADIAL	24659.6	24659.6	100.4 %		18:48:15
1	Al 396.153Radial†	10867.3	10765.3	4932.0 ug/L	4932.0 ppb	18:48:15
1	Ca 317.933Radial†	7591.4	7416.4	5079.9 ug/L	5079.9 ppb	18:48:15
1	Fe 238.204 Radial†	505.4	456.6	5052.6 ug/L	5052.6 ppb	18:48:35
1	K 766.490 Radial†	30876.2	29444.2	5096.8 ug/L	5096.8 ppb	18:48:15
1	Mg 279.077 IEC†	330.3	322.8	5169.6 ug/L	5169.6 ppb	18:48:35
1	Na 589.592 Radial†	133921.5	131979.2	10067 ug/L	10067 ppb	18:48:15
1	Sr 421.552†	216245.0	213004.3	499.12 ug/L	499.12 ppb	18:48:15
1	Sc 361.383	991979.7	991979.7	102.45 %		18:49:35
1	Y 371.029	681557.8	681557.8	101.26 %		18:49:35
1	Ag 328.068†	71127.2	69354.1	498.97 ug/L	498.97 ppb	18:49:40
1	As 188.979†	1066.3	1059.1	507.24 ug/L	507.24 ppb	18:50:01
1	B 249.677†	17966.2	17285.2	520.36 ug/L	520.36 ppb	18:49:40
1	Ba 233.527†	31621.8	30882.2	498.97 ug/L	498.97 ppb	18:49:40
1	Be 313.107†	969950.1	949631.7	495.85 ug/L	495.85 ppb	18:49:35
1	Cd 226.502†	35335.4	34587.1	497.50 ug/L	497.50 ppb	18:49:40
1	Co 228.616†	17413.7	17024.8	503.23 ug/L	503.23 ppb	18:49:40
1	Cr 267.716†	31363.7	30650.1	499.04 ug/L	499.04 ppb	18:49:40
1	Cu 324.752†	94751.3	89249.7	495.47 ug/L	495.47 ppb	18:49:40
1	Mn 257.610†	224512.4	218986.5	494.00 ug/L	494.00 ppb	18:49:40
1	Mo 202.031†	11916.0	11611.3	500.11 ug/L	500.11 ppb	18:50:01
1	Ni 231.604†	16470.3	15917.4	500.85 ug/L	500.85 ppb	18:49:40
1	P 214.914†	2800.2	2905.2	2434.3 ug/L	2434.3 ppb	18:50:01
1	Pb 220.353†	4141.5	3970.9	509.34 ug/L	509.34 ppb	18:50:01
1	S 181.975 Axial†	1056.2	994.4	1004.0 ug/L	1004.0 ppb	18:50:01
1	Sb 206.836†	1290.0	1234.9	497.35 ug/L	497.35 ppb	18:50:01
1	Se 196.026†	1143.4	1122.6	511.40 ug/L	511.40 ppb	18:50:01
1	Si 251.611†	48283.6	46714.2	2466.8 ug/L	2466.8 ppb	18:49:40
1	Sn 189.927†	3896.4	3803.3	492.08 ug/L	492.08 ppb	18:50:01
1	Ti 334.940†	285633.0	278217.7	489.23 ug/L	489.23 ppb	18:49:40
1	Tl 190.801†	1109.8	1118.9	509.13 ug/L	509.13 ppb	18:50:01
1	U 409.014†	10754.9	10376.3	506.95 ug/L	506.95 ppb	18:49:40
1	V 292.402†	55938.5	54872.6	480.20 ug/L	480.20 ppb	18:49:40
1	Zn 213.857†	42018.7	40553.8	495.04 ug/L	495.04 ppb	18:49:40
1	SiO2†	48291.7	46732.8	5277.7 ug/L	5277.7 ppb	18:51:11
2	Sc Radial	36302.6	36302.6	103 %		18:48:41
2	Y RADIAL	25019.6	25019.6	101.9 %		18:48:41
2	Al 396.153Radial†	10942.9	10671.5	4888.9 ug/L	4888.9 ppb	18:48:41
2	Ca 317.933Radial†	7623.3	7330.6	5021.2 ug/L	5021.2 ppb	18:48:41
2	Fe 238.204 Radial†	504.9	448.3	4961.0 ug/L	4961.0 ppb	18:49:01
2	K 766.490 Radial†	30824.1	28918.6	5005.8 ug/L	5005.8 ppb	18:48:41
2	Mg 279.077 IEC†	328.6	316.1	5062.9 ug/L	5062.9 ppb	18:49:01
2	Na 589.592 Radial†	134184.0	130173.7	9929.7 ug/L	9929.7 ppb	18:48:41
2	Sr 421.552†	217539.1	210934.3	494.27 ug/L	494.27 ppb	18:48:41
2	Sc 361.383	987969.9	987969.9	102.04 %		18:50:07
2	Y 371.029	678779.1	678779.1	100.85 %		18:50:07
2	Ag 328.068†	70868.3	69382.2	499.12 ug/L	499.12 ppb	18:50:12
2	As 188.979†	1060.9	1058.1	506.72 ug/L	506.72 ppb	18:50:33
2	B 249.677†	17793.2	17186.8	517.44 ug/L	517.44 ppb	18:50:12
2	Ba 233.527†	31216.4	30610.2	494.59 ug/L	494.59 ppb	18:50:12
2	Be 313.107†	968901.5	952446.5	497.31 ug/L	497.31 ppb	18:50:07
2	Cd 226.502†	34970.0	34369.0	494.37 ug/L	494.37 ppb	18:50:12
2	Co 228.616†	17223.5	16907.4	499.76 ug/L	499.76 ppb	18:50:12
2	Cr 267.716†	31060.6	30477.4	496.22 ug/L	496.22 ppb	18:50:12
2	Cu 324.752†	94183.1	89068.2	494.46 ug/L	494.46 ppb	18:50:12
2	Mn 257.610†	222443.2	217848.1	491.43 ug/L	491.43 ppb	18:50:12
2	Mo 202.031†	11820.5	11564.9	498.11 ug/L	498.11 ppb	18:50:33
2	Ni 231.604†	16284.5	15800.6	497.17 ug/L	497.17 ppb	18:50:12

2	P 214.914†	2807.5	2923.4	2449.8 ug/L	2449.8 ppb	18:50:33
2	Pb 220.353†	4047.6	3895.3	499.66 ug/L	499.66 ppb	18:50:33
2	S 181.975 Axial†	1037.3	980.0	989.46 ug/L	989.46 ppb	18:50:33
2	Sb 206.836†	1277.9	1228.1	494.60 ug/L	494.60 ppb	18:50:33
2	Se 196.026†	1134.9	1118.8	509.54 ug/L	509.54 ppb	18:50:33
2	Si 251.611†	47937.1	46565.9	2459.0 ug/L	2459.0 ppb	18:50:12
2	Sn 189.927†	3860.2	3783.2	489.49 ug/L	489.49 ppb	18:50:33
2	Ti 334.940†	283063.1	276830.7	486.79 ug/L	486.79 ppb	18:50:12
2	Tl 190.801†	1084.0	1098.0	499.67 ug/L	499.67 ppb	18:50:33
2	U 409.014†	10676.6	10342.3	505.32 ug/L	505.32 ppb	18:50:12
2	V 292.402†	55474.1	54639.0	478.16 ug/L	478.16 ppb	18:50:12
2	Zn 213.857†	41682.7	40391.1	493.07 ug/L	493.07 ppb	18:50:12
2	SiO2†	47889.4	46529.9	5254.8 ug/L	5254.8 ppb	18:51:16
3	Sc Radial	35993.5	35993.5	102 %		18:49:06
3	Y RADIAL	24823.5	24823.5	101.1 %		18:49:06
3	Al 396.153Radial†	10849.3	10671.1	4888.9 ug/L	4888.9 ppb	18:49:06
3	Ca 317.933Radial†	7558.8	7331.0	5021.4 ug/L	5021.4 ppb	18:49:06
3	Fe 238.204 Radial†	509.6	457.1	5058.9 ug/L	5058.9 ppb	18:49:26
3	K 766.490 Radial†	30601.8	28957.9	5012.6 ug/L	5012.6 ppb	18:49:06
3	Mg 279.077 IEC†	326.1	316.4	5067.3 ug/L	5067.3 ppb	18:49:26
3	Na 589.592 Radial†	133046.4	130178.4	9930.0 ug/L	9930.0 ppb	18:49:06
3	Sr 421.552†	215524.5	210775.1	493.89 ug/L	493.89 ppb	18:49:06
3	Sc 361.383	994706.0	994706.0	102.74 %		18:50:39
3	Y 371.029	684199.7	684199.7	101.65 %		18:50:39
3	Ag 328.068†	71219.8	69254.0	498.23 ug/L	498.23 ppb	18:50:45
3	As 188.979†	1066.9	1056.9	506.18 ug/L	506.18 ppb	18:51:05
3	B 249.677†	17886.9	17160.0	516.56 ug/L	516.56 ppb	18:50:45
3	Ba 233.527†	31412.4	30593.8	494.32 ug/L	494.32 ppb	18:50:45
3	Be 313.107†	976679.6	953587.3	497.90 ug/L	497.90 ppb	18:50:39
3	Cd 226.502†	35238.3	34398.0	494.78 ug/L	494.78 ppb	18:50:45
3	Co 228.616†	17355.1	16921.2	500.16 ug/L	500.16 ppb	18:50:45
3	Cr 267.716†	31229.8	30435.9	495.55 ug/L	495.55 ppb	18:50:45
3	Cu 324.752†	94743.9	88989.1	494.03 ug/L	494.03 ppb	18:50:45
3	Mn 257.610†	223754.1	217647.8	490.99 ug/L	490.99 ppb	18:50:45
3	Mo 202.031†	11812.6	11478.8	494.41 ug/L	494.41 ppb	18:51:05
3	Ni 231.604†	16411.8	15816.4	497.67 ug/L	497.67 ppb	18:50:45
3	P 214.914†	2820.3	2917.3	2444.5 ug/L	2444.5 ppb	18:51:05
3	Pb 220.353†	4049.2	3870.0	496.40 ug/L	496.40 ppb	18:51:05
3	S 181.975 Axial†	1031.8	967.8	977.11 ug/L	977.11 ppb	18:51:05
3	Sb 206.836†	1294.1	1235.4	497.57 ug/L	497.57 ppb	18:51:05
3	Se 196.026†	1145.8	1121.8	511.06 ug/L	511.06 ppb	18:51:05
3	Si 251.611†	48242.6	46545.2	2458.0 ug/L	2458.0 ppb	18:50:45
3	Sn 189.927†	3886.2	3782.9	489.44 ug/L	489.44 ppb	18:51:05
3	Ti 334.940†	284646.1	276493.0	486.20 ug/L	486.20 ppb	18:50:45
3	Tl 190.801†	1090.2	1096.9	499.16 ug/L	499.16 ppb	18:51:05
3	U 409.014†	10747.9	10340.8	505.23 ug/L	505.23 ppb	18:50:45
3	V 292.402†	55737.6	54527.3	477.26 ug/L	477.26 ppb	18:50:45
3	Zn 213.857†	41892.7	40318.8	492.17 ug/L	492.17 ppb	18:50:45
3	SiO2†	48044.7	46363.2	5235.9 ug/L	5235.9 ppb	18:51:21

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	991551.9	102.41 %	0.350			0.34%
Sc Radial	36010.9	102 %	0.8			0.79%
Y 371.029	681512.2	101.25 %	0.403			0.40%
Y RADIAL	24834.3	101.1 %	0.73			0.73%
Ag 328.068†	69330.1	498.77 ug/L	0.475	498.77 ppb	0.475	0.10%
QC value within limits for Ag 328.068 Recovery = 99.75%						
Al 396.153Radial†	10702.6	4903.3 ug/L	24.88	4903.3 ppb	24.88	0.51%
QC value within limits for Al 396.153Radial Recovery = 98.07%						
As 188.979†	1058.0	506.71 ug/L	0.530	506.71 ppb	0.530	0.10%
QC value within limits for As 188.979 Recovery = 101.34%						
B 249.677†	17210.7	518.12 ug/L	1.989	518.12 ppb	1.989	0.38%
QC value within limits for B 249.677 Recovery = 103.62%						
Ba 233.527†	30695.4	495.96 ug/L	2.615	495.96 ppb	2.615	0.53%
QC value within limits for Ba 233.527 Recovery = 99.19%						
Be 313.107†	951888.5	497.02 ug/L	1.056	497.02 ppb	1.056	0.21%
QC value within limits for Be 313.107 Recovery = 99.40%						
Ca 317.933Radial†	7359.3	5040.8 ug/L	33.86	5040.8 ppb	33.86	0.67%

	QC value within limits for Ca 317.933	Radial Recovery = 100.82%					
Cd	226.502†	34451.4	495.55 ug/L	1.702	495.55 ppb	1.702	0.34%
	QC value within limits for Cd 226.502	Recovery = 99.11%					
Co	228.616†	16951.1	501.05 ug/L	1.898	501.05 ppb	1.898	0.38%
	QC value within limits for Co 228.616	Recovery = 100.21%					
Cr	267.716†	30521.1	496.94 ug/L	1.849	496.94 ppb	1.849	0.37%
	QC value within limits for Cr 267.716	Recovery = 99.39%					
Cu	324.752†	89102.3	494.66 ug/L	0.741	494.66 ppb	0.741	0.15%
	QC value within limits for Cu 324.752	Recovery = 98.93%					
Fe	238.204 Radial†	454.0	5024.2 ug/L	54.79	5024.2 ppb	54.79	1.09%
	QC value within limits for Fe 238.204 Radial	Recovery = 100.48%					
K	766.490 Radial†	29106.9	5038.4 ug/L	50.68	5038.4 ppb	50.68	1.01%
	QC value within limits for K 766.490 Radial	Recovery = 100.77%					
Mg	279.077 IEC†	318.4	5099.9 ug/L	60.35	5099.9 ppb	60.35	1.18%
	QC value within limits for Mg 279.077 IEC	Recovery = 102.00%					
Mn	257.610†	218160.8	492.14 ug/L	1.628	492.14 ppb	1.628	0.33%
	QC value within limits for Mn 257.610	Recovery = 98.43%					
Mo	202.031†	11551.7	497.54 ug/L	2.895	497.54 ppb	2.895	0.58%
	QC value within limits for Mo 202.031	Recovery = 99.51%					
Na	589.592 Radial†	130777.1	9975.7 ug/L	79.39	9975.7 ppb	79.39	0.80%
	QC value within limits for Na 589.592 Radial	Recovery = 99.76%					
Ni	231.604†	15844.8	498.56 ug/L	1.995	498.56 ppb	1.995	0.40%
	QC value within limits for Ni 231.604	Recovery = 99.71%					
P	214.914†	2915.3	2442.9 ug/L	7.86	2442.9 ppb	7.86	0.32%
	QC value within limits for P 214.914	Recovery = 97.71%					
Pb	220.353†	3912.1	501.80 ug/L	6.729	501.80 ppb	6.729	1.34%
	QC value within limits for Pb 220.353	Recovery = 100.36%					
S	181.975 Axial†	980.7	990.19 ug/L	13.459	990.19 ppb	13.459	1.36%
	QC value within limits for S 181.975 Axial	Recovery = 99.02%					
Sb	206.836†	1232.8	496.51 ug/L	1.656	496.51 ppb	1.656	0.33%
	QC value within limits for Sb 206.836	Recovery = 99.30%					
Se	196.026†	1121.1	510.67 ug/L	0.994	510.67 ppb	0.994	0.19%
	QC value within limits for Se 196.026	Recovery = 102.13%					
Si	251.611†	46608.4	2461.3 ug/L	4.83	2461.3 ppb	4.83	0.20%
	QC value within limits for Si 251.611	Recovery = 98.45%					
Sn	189.927†	3789.8	490.34 ug/L	1.512	490.34 ppb	1.512	0.31%
	QC value within limits for Sn 189.927	Recovery = 98.07%					
Sr	421.552†	211571.2	495.76 ug/L	2.914	495.76 ppb	2.914	0.59%
	QC value within limits for Sr 421.552	Recovery = 99.15%					
Ti	334.940†	277180.4	487.41 ug/L	1.610	487.41 ppb	1.610	0.33%
	QC value within limits for Ti 334.940	Recovery = 97.48%					
Tl	190.801†	1104.6	502.65 ug/L	5.614	502.65 ppb	5.614	1.12%
	QC value within limits for Tl 190.801	Recovery = 100.53%					
U	409.014†	10353.1	505.83 ug/L	0.971	505.83 ppb	0.971	0.19%
	QC value within limits for U 409.014	Recovery = 101.17%					
V	292.402†	54679.6	478.54 ug/L	1.509	478.54 ppb	1.509	0.32%
	QC value within limits for V 292.402	Recovery = 95.71%					
Zn	213.857†	40421.2	493.43 ug/L	1.468	493.43 ppb	1.468	0.30%
	QC value within limits for Zn 213.857	Recovery = 98.69%					
SiO2†		46542.0	5256.1 ug/L	20.90	5256.1 ppb	20.90	0.40%
	QC value within limits for SiO2	Recovery = 98.29%					
All analyte(s) passed QC.							

Sequence No.: 14

Autosampler Location: 8

Sample ID: CCB

Date Collected: 4/23/2007 18:53:31

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35337.9	35337.9	100 %		18:55:16
1	Y RADIAL	24608.3	24608.3	100.2 %		18:55:16
1	Al 396.153Radial†	-58.6	-15.3	-7.0742 ug/L	-7.0742 ppb	18:55:16
1	Ca 317.933Radial†	60.7	-13.0	-8.9294 ug/L	-8.9294 ppb	18:55:36
1	Fe 238.204 Radial†	41.1	-1.1	-11.889 ug/L	-11.889 ppb	18:55:36
1	K 766.490 Radial†	970.1	-51.7	-8.9470 ug/L	-8.9470 ppb	18:55:16
1	Mg 279.077 IEC†	0.7	-2.3	-37.403 ug/L	-37.403 ppb	18:55:36
1	Na 589.592 Radial†	72.4	-81.6	-6.2200 ug/L	-6.2200 ppb	18:55:16
1	Sr 421.552†	387.2	33.6	0.0789 ug/L	0.0789 ppb	18:55:16
1	Sc 361.383	984150.7	984150.7	101.64 %		18:56:34
1	Y 371.029	684496.0	684496.0	101.70 %		18:56:34
1	Ag 328.068†	80.4	9.3	0.0625 ug/L	0.0625 ppb	18:56:39
1	As 188.979†	-13.4	5.2	2.5001 ug/L	2.5001 ppb	18:57:00
1	B 249.677†	995.3	728.5	22.160 ug/L	22.160 ppb	18:56:39
1	Ba 233.527†	-12.2	5.6	0.0911 ug/L	0.0911 ppb	18:57:00
1	Be 313.107†	-2872.7	82.7	0.0433 ug/L	0.0433 ppb	18:56:39
1	Cd 226.502†	-92.4	7.0	0.1013 ug/L	0.1013 ppb	18:57:00
1	Co 228.616†	-28.1	0.5	0.0150 ug/L	0.0150 ppb	18:57:00
1	Cr 267.716†	-19.5	18.3	0.2972 ug/L	0.2972 ppb	18:57:00
1	Cu 324.752†	3289.4	3.6	0.0187 ug/L	0.0187 ppb	18:56:39
1	Mn 257.610†	187.8	35.3	0.0791 ug/L	0.0791 ppb	18:57:00
1	Mo 202.031†	41.2	21.1	0.9095 ug/L	0.9095 ppb	18:57:00
1	Ni 231.604†	161.9	0.8	0.0260 ug/L	0.0260 ppb	18:57:00
1	P 214.914†	-160.3	14.3	12.064 ug/L	12.064 ppb	18:57:00
1	Pb 220.353†	85.1	12.3	1.5796 ug/L	1.5796 ppb	18:57:00
1	S 181.975 Axial†	36.5	-0.6	-0.6121 ug/L	-0.6121 ppb	18:57:00
1	Sb 206.836†	32.9	8.2	3.2802 ug/L	3.2802 ppb	18:57:00
1	Se 196.026†	-3.2	3.4	1.4860 ug/L	1.4860 ppb	18:57:00
1	Si 251.611†	440.5	20.2	1.0538 ug/L	1.0538 ppb	18:57:00
1	Sn 189.927†	7.2	7.2	0.9329 ug/L	0.9329 ppb	18:57:00
1	Ti 334.940†	639.1	53.5	0.0928 ug/L	0.0928 ppb	18:56:39
1	Tl 190.801†	-36.5	-0.3	-0.1125 ug/L	-0.1125 ppb	18:57:00
1	U 409.014†	124.6	1.6	0.0808 ug/L	0.0808 ppb	18:56:39
1	V 292.402†	-286.1	-7.8	-0.0969 ug/L	-0.0969 ppb	18:56:39
1	Zn 213.857†	479.2	12.8	0.1592 ug/L	0.1592 ppb	18:57:00
1	SiO2†	474.5	64.4	7.2711 ug/L	7.2711 ppb	18:58:22
2	Sc Radial	35744.0	35744.0	101 %		18:55:41
2	Y RADIAL	24892.3	24892.3	101.4 %		18:55:41
2	Al 396.153Radial†	-55.2	-11.3	-5.2370 ug/L	-5.2370 ppb	18:55:41
2	Ca 317.933Radial†	63.1	-11.3	-7.7662 ug/L	-7.7662 ppb	18:56:01
2	Fe 238.204 Radial†	40.7	-2.0	-21.629 ug/L	-21.629 ppb	18:56:01
2	K 766.490 Radial†	1077.0	42.8	7.4034 ug/L	7.4034 ppb	18:55:41
2	Mg 279.077 IEC†	-0.0	-3.1	-49.342 ug/L	-49.342 ppb	18:56:01
2	Na 589.592 Radial†	196.1	39.6	3.0197 ug/L	3.0197 ppb	18:55:41
2	Sr 421.552†	397.1	38.9	0.0915 ug/L	0.0915 ppb	18:55:41
2	Sc 361.383	981947.7	981947.7	101.42 %		18:57:05
2	Y 371.029	683254.6	683254.6	101.51 %		18:57:05
2	Ag 328.068†	105.9	34.6	0.2438 ug/L	0.2438 ppb	18:57:10
2	As 188.979†	-10.6	7.9	3.7721 ug/L	3.7721 ppb	18:57:31
2	B 249.677†	1013.9	749.0	22.789 ug/L	22.789 ppb	18:57:10
2	Ba 233.527†	-6.7	11.0	0.1787 ug/L	0.1787 ppb	18:57:31
2	Be 313.107†	-2921.2	28.6	0.0149 ug/L	0.0149 ppb	18:57:10
2	Cd 226.502†	-81.1	17.9	0.2593 ug/L	0.2593 ppb	18:57:31
2	Co 228.616†	-19.8	8.6	0.2552 ug/L	0.2552 ppb	18:57:31
2	Cr 267.716†	-30.1	7.9	0.1282 ug/L	0.1282 ppb	18:57:31
2	Cu 324.752†	3286.9	8.4	0.0443 ug/L	0.0443 ppb	18:57:10
2	Mn 257.610†	191.8	39.6	0.0883 ug/L	0.0883 ppb	18:57:31
2	Mo 202.031†	40.2	20.3	0.8720 ug/L	0.8720 ppb	18:57:31
2	Ni 231.604†	161.2	0.5	0.0146 ug/L	0.0146 ppb	18:57:31

2	P 214.914†	-166.8	7.5	6.3738 ug/L	6.3738 ppb	18:57:31
2	Pb 220.353†	82.4	9.9	1.2687 ug/L	1.2687 ppb	18:57:31
2	S 181.975 Axial†	33.3	-3.7	-3.6976 ug/L	-3.6976 ppb	18:57:31
2	Sb 206.836†	26.6	2.0	0.8105 ug/L	0.8105 ppb	18:57:31
2	Se 196.026†	-10.3	-3.6	-1.6379 ug/L	-1.6379 ppb	18:57:31
2	Si 251.611†	452.7	33.2	1.7446 ug/L	1.7446 ppb	18:57:31
2	Sn 189.927†	3.2	3.3	0.4264 ug/L	0.4264 ppb	18:57:31
2	Ti 334.940†	577.9	-5.5	-0.0103 ug/L	-0.0103 ppb	18:57:10
2	Tl 190.801†	-34.4	1.8	0.8100 ug/L	0.8100 ppb	18:57:31
2	U 409.014†	111.2	-11.3	-0.5533 ug/L	-0.5533 ppb	18:57:10
2	V 292.402†	-231.9	44.9	0.3805 ug/L	0.3805 ppb	18:57:10
2	Zn 213.857†	468.1	2.9	0.0389 ug/L	0.0389 ppb	18:57:31
2	SiO2†	466.2	57.3	6.4684 ug/L	6.4684 ppb	18:58:42
3	Sc Radial	35613.4	35613.4	101 %		18:56:06
3	Y RADIAL	24807.6	24807.6	101.0 %		18:56:06
3	Al 396.153Radial†	-49.4	-5.8	-2.7352 ug/L	-2.7352 ppb	18:56:06
3	Ca 317.933Radial†	68.5	-5.8	-3.9632 ug/L	-3.9632 ppb	18:56:26
3	Fe 238.204 Radial†	40.5	-2.0	-22.067 ug/L	-22.067 ppb	18:56:26
3	K 766.490 Radial†	1064.3	34.1	5.8996 ug/L	5.8996 ppb	18:56:06
3	Mg 279.077 IEC†	0.8	-2.3	-36.469 ug/L	-36.469 ppb	18:56:26
3	Na 589.592 Radial†	243.1	86.8	6.6388 ug/L	6.6388 ppb	18:56:06
3	Sr 421.552†	352.1	-4.2	-0.0097 ug/L	-0.0097 ppb	18:56:06
3	Sc 361.383	977894.3	977894.3	101.00 %		18:57:36
3	Y 371.029	680480.6	680480.6	101.10 %		18:57:36
3	Ag 328.068†	80.0	9.3	0.0598 ug/L	0.0598 ppb	18:57:41
3	As 188.979†	-11.7	6.8	3.2547 ug/L	3.2547 ppb	18:58:02
3	B 249.677†	937.8	677.8	20.623 ug/L	20.623 ppb	18:57:41
3	Ba 233.527†	39.0	56.2	0.9075 ug/L	0.9075 ppb	18:58:02
3	Be 313.107†	-2894.1	43.5	0.0228 ug/L	0.0228 ppb	18:57:41
3	Cd 226.502†	-36.5	61.8	0.8919 ug/L	0.8919 ppb	18:58:02
3	Co 228.616†	-3.1	25.0	0.7422 ug/L	0.7422 ppb	18:58:02
3	Cr 267.716†	39.8	77.0	1.2522 ug/L	1.2522 ppb	18:58:02
3	Cu 324.752†	3277.6	12.6	0.0673 ug/L	0.0673 ppb	18:57:41
3	Mn 257.610†	496.8	342.4	0.7698 ug/L	0.7698 ppb	18:58:02
3	Mo 202.031†	55.0	35.0	1.5078 ug/L	1.5078 ppb	18:58:02
3	Ni 231.604†	177.6	17.4	0.5456 ug/L	0.5456 ppb	18:58:02
3	P 214.914†	-162.9	10.8	9.0905 ug/L	9.0905 ppb	18:58:02
3	Pb 220.353†	97.5	25.1	3.2172 ug/L	3.2172 ppb	18:58:02
3	S 181.975 Axial†	36.8	-0.1	-0.1348 ug/L	-0.1348 ppb	18:58:02
3	Sb 206.836†	25.8	1.3	0.5143 ug/L	0.5143 ppb	18:58:02
3	Se 196.026†	-4.9	1.7	0.7114 ug/L	0.7114 ppb	18:58:02
3	Si 251.611†	519.5	101.2	5.3368 ug/L	5.3368 ppb	18:58:02
3	Sn 189.927†	6.8	6.9	0.8890 ug/L	0.8890 ppb	18:58:02
3	Ti 334.940†	615.4	34.1	0.0576 ug/L	0.0576 ppb	18:57:41
3	Tl 190.801†	-34.6	1.4	0.6555 ug/L	0.6555 ppb	18:58:02
3	U 409.014†	173.3	50.7	2.5000 ug/L	2.5000 ppb	18:57:41
3	V 292.402†	-269.7	6.6	0.0198 ug/L	0.0198 ppb	18:57:41
3	Zn 213.857†	531.7	67.8	0.8338 ug/L	0.8338 ppb	18:58:02
3	SiO2†	448.6	41.8	4.7174 ug/L	4.7174 ppb	18:59:03

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	981330.9	101.35 %	0.328			0.32%
Sc Radial	35565.1	101 %	0.6			0.58%
Y 371.029	682743.7	101.44 %	0.305			0.30%
Y RADIAL	24769.4	100.9 %	0.59			0.59%
Ag 328.068†	17.8	0.1220 ug/L	0.10542	0.1220 ppb	0.10542	86.38%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-10.8	-5.0154 ug/L	2.17797	-5.0154 ppb	2.17797	43.43%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	6.7	3.1756 ug/L	0.63968	3.1756 ppb	0.63968	20.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	718.4	21.857 ug/L	1.1147	21.857 ppb	1.1147	5.10%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	24.3	0.3924 ug/L	0.44820	0.3924 ppb	0.44820	114.21%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	51.6	0.0270 ug/L	0.01469	0.0270 ppb	0.01469	54.42%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-10.1	-6.8863 ug/L	2.59742	-6.8863 ppb	2.59742	37.72%

	QC value within limits	for Ca 317.933	Radial	Recovery = Not calculated			
Cd	226.502†	28.9	0.4175 ug/L	0.41837	0.4175 ppb	0.41837	100.21%
	QC value within limits	for Cd 226.502		Recovery = Not calculated			
Co	228.616†	11.3	0.3375 ug/L	0.37049	0.3375 ppb	0.37049	109.79%
	QC value within limits	for Co 228.616		Recovery = Not calculated			
Cr	267.716†	34.4	0.5592 ug/L	0.60606	0.5592 ppb	0.60606	108.38%
	QC value within limits	for Cr 267.716		Recovery = Not calculated			
Cu	324.752†	8.2	0.0434 ug/L	0.02432	0.0434 ppb	0.02432	55.98%
	QC value within limits	for Cu 324.752		Recovery = Not calculated			
Fe	238.204 Radial†	-1.7	-18.528 ug/L	5.7543	-18.528 ppb	5.7543	31.06%
	QC value within limits	for Fe 238.204	Radial	Recovery = Not calculated			
K	766.490 Radial†	8.4	1.4520 ug/L	9.03712	1.4520 ppb	9.03712	622.39%
	QC value within limits	for K 766.490	Radial	Recovery = Not calculated			
Mg	279.077 IEC†	-2.6	-41.071 ug/L	7.1777	-41.071 ppb	7.1777	17.48%
	QC value within limits	for Mg 279.077	IEC	Recovery = Not calculated			
Mn	257.610†	139.1	0.3124 ug/L	0.39618	0.3124 ppb	0.39618	126.82%
	QC value within limits	for Mn 257.610		Recovery = Not calculated			
Mo	202.031†	25.5	1.0964 ug/L	0.35674	1.0964 ppb	0.35674	32.54%
	QC value within limits	for Mo 202.031		Recovery = Not calculated			
Na	589.592 Radial†	15.0	1.1462 ug/L	6.63101	1.1462 ppb	6.63101	578.55%
	QC value within limits	for Na 589.592	Radial	Recovery = Not calculated			
Ni	231.604†	6.2	0.1954 ug/L	0.30335	0.1954 ppb	0.30335	155.22%
	QC value within limits	for Ni 231.604		Recovery = Not calculated			
P	214.914†	10.9	9.1760 ug/L	2.84584	9.1760 ppb	2.84584	31.01%
	QC value within limits	for P 214.914		Recovery = Not calculated			
Pb	220.353†	15.8	2.0219 ug/L	1.04682	2.0219 ppb	1.04682	51.77%
	QC value within limits	for Pb 220.353		Recovery = Not calculated			
S	181.975 Axial†	-1.5	-1.4815 ug/L	1.93395	-1.4815 ppb	1.93395	130.54%
	QC value within limits	for S 181.975	Axial	Recovery = Not calculated			
Sb	206.836†	3.8	1.5350 ug/L	1.51862	1.5350 ppb	1.51862	98.94%
	QC value within limits	for Sb 206.836		Recovery = Not calculated			
Se	196.026†	0.5	0.1865 ug/L	1.62678	0.1865 ppb	1.62678	872.34%
	QC value within limits	for Se 196.026		Recovery = Not calculated			
Si	251.611†	51.5	2.7117 ug/L	2.29945	2.7117 ppb	2.29945	84.80%
	QC value within limits	for Si 251.611		Recovery = Not calculated			
Sn	189.927†	5.8	0.7494 ug/L	0.28064	0.7494 ppb	0.28064	37.45%
	QC value within limits	for Sn 189.927		Recovery = Not calculated			
Sr	421.552†	22.8	0.0536 ug/L	0.05514	0.0536 ppb	0.05514	102.92%
	QC value within limits	for Sr 421.552		Recovery = Not calculated			
Ti	334.940†	27.4	0.0467 ug/L	0.05238	0.0467 ppb	0.05238	112.15%
	QC value within limits	for Ti 334.940		Recovery = Not calculated			
Tl	190.801†	1.0	0.4510 ug/L	0.49405	0.4510 ppb	0.49405	109.54%
	QC value within limits	for Tl 190.801		Recovery = Not calculated			
U	409.014†	13.6	0.6758 ug/L	1.61128	0.6758 ppb	1.61128	238.42%
	QC value within limits	for U 409.014		Recovery = Not calculated			
V	292.402†	14.6	0.1011 ug/L	0.24888	0.1011 ppb	0.24888	246.15%
	QC value within limits	for V 292.402		Recovery = Not calculated			
Zn	213.857†	27.8	0.3440 ug/L	0.42844	0.3440 ppb	0.42844	124.56%
	QC value within limits	for Zn 213.857		Recovery = Not calculated			
SiO2†		54.5	6.1523 ug/L	1.30583	6.1523 ppb	1.30583	21.23%
	QC value within limits	for SiO2		Recovery = Not calculated			
All analyte(s) passed QC.							

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Analysis Begun

Start Time: 4/23/2007 19:00:19 Plasma On Time: 4/23/2007 08:46:28
 Logged In Analyst: optimal Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1030502 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optimal\Sample Information\042307.SIF

Batch ID:

Results Data Set: 042307

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

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Method Loaded

Method Name: General Eng.2A

IEC File: 041807.iec

Method Description:

Method Last Saved: 4/23/2007 16:00:13

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No

=====
 Sequence No.: 1

Sample ID: LR1 200k Fe

Analyst: JWJ

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 4/23/2007 19:00:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

 Replicate Data: LR1 200k Fe

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	36041.1	36041.1	102 %		19:02:05
1	Y RADIAL	25043.7	25043.7	102.0 %		19:02:05
1	Al 396.153Radial†	-49.2	-5.0	-2.0692 ug/L	-2.0692 ppb	19:02:05

1	Ca 317.933Radial†	83.6	8.2	5.6009 ug/L	5.6009 ppb	19:02:25
1	Fe 238.204 Radial†	17844.9	17415.7	192060 ug/L	192060 ppb	19:02:05
1	K 766.490 Radial†	943.0	-97.1	-16.799 ug/L	-16.799 ppb	19:02:05
1	Mg 279.077 IEC†	18.3	14.8	73.775 ug/L	73.775 ppb	19:02:25
1	Na 589.592 Radial†	185.0	27.1	2.3592 ug/L	2.3592 ppb	19:02:05
1	Sr 421.552†	434.5	72.4	0.1695 ug/L	0.1695 ppb	19:02:05
1	Sc 361.383	962404.8	962404.8	99.399 %		19:03:24
1	Y 371.029	663438.6	663438.6	98.568 %		19:03:24
1	Ag 328.068†	-3258.5	-3348.0	35.856 ug/L	35.856 ppb	19:03:24
1	As 188.979†	-53.9	-35.8	-3.0131 ug/L	-3.0131 ppb	19:03:44
1	B 249.677†	879.7	634.2	-101.34 ug/L	-101.34 ppb	19:03:24
1	Ba 233.527†	320.6	340.2	-0.4128 ug/L	-0.4128 ppb	19:03:44
1	Be 313.107†	-2947.1	-56.0	-0.0285 ug/L	-0.0285 ppb	19:03:24
1	Cd 226.502†	1087.3	1191.8	-0.5393 ug/L	-0.5393 ppb	19:03:24
1	Co 228.616†	96.0	124.7	3.6706 ug/L	3.6706 ppb	19:03:44
1	Cr 267.716†	-247.8	-211.8	-3.4006 ug/L	-3.4006 ppb	19:03:44
1	Cu 324.752†	1905.5	-1315.5	10.297 ug/L	10.297 ppb	19:03:24
1	Mn 257.610†	-8544.2	-8745.3	-0.3399 ug/L	-0.3399 ppb	19:03:24
1	Mo 202.031†	-163.4	-183.8	0.3716 ug/L	0.3716 ppb	19:03:44
1	Ni 231.604†	161.6	4.1	0.1232 ug/L	0.1232 ppb	19:03:44
1	P 214.914†	100.5	273.1	12.458 ug/L	12.458 ppb	19:03:44
1	Pb 220.353†	187.4	117.1	1.0633 ug/L	1.0633 ppb	19:03:44
1	S 181.975 Axial†	40.9	4.7	4.7144 ug/L	4.7144 ppb	19:03:44
1	Sb 206.836†	17.6	-6.5	-2.5913 ug/L	-2.5913 ppb	19:03:44
1	Se 196.026†	-1077.9	-1077.9	-95.589 ug/L	-95.589 ppb	19:03:44
1	Si 251.611†	-102.8	-516.6	-27.239 ug/L	-27.239 ppb	19:03:44
1	Sn 189.927†	-22.7	-22.7	0.3071 ug/L	0.3071 ppb	19:03:44
1	Ti 334.940†	703.8	132.8	0.2091 ug/L	0.2091 ppb	19:03:24
1	Tl 190.801†	-51.9	-16.5	-7.4725 ug/L	-7.4725 ppb	19:03:44
1	U 409.014†	1061.4	946.9	7.2909 ug/L	7.2909 ppb	19:03:24
1	V 292.402†	1639.0	1922.5	0.2868 ug/L	0.2868 ppb	19:03:24
1	Zn 213.857†	2140.9	1695.3	-1.3521 ug/L	-1.3521 ppb	19:03:44
1	SiO2†	-53.7	-456.4	-51.546 ug/L	-51.546 ppb	19:04:42
2	Sc Radial	35716.7	35716.7	101 %		19:02:30
2	Y RADIAL	24832.0	24832.0	101.1 %		19:02:30
2	Al 396.153Radial†	-76.7	-32.6	-14.743 ug/L	-14.743 ppb	19:02:30
2	Ca 317.933Radial†	91.6	16.8	11.511 ug/L	11.511 ppb	19:02:50
2	Fe 238.204 Radial†	17926.2	17654.5	194690 ug/L	194690 ppb	19:02:30
2	K 766.490 Radial†	809.2	-220.7	-38.204 ug/L	-38.204 ppb	19:02:30
2	Mg 279.077 IEC†	19.1	15.8	87.983 ug/L	87.983 ppb	19:02:50
2	Na 589.592 Radial†	244.4	87.4	6.9494 ug/L	6.9494 ppb	19:02:30
2	Sr 421.552†	437.4	79.1	0.1850 ug/L	0.1850 ppb	19:02:30
2	Sc 361.383	967629.3	967629.3	99.938 %		19:03:50
2	Y 371.029	667761.2	667761.2	99.210 %		19:03:50
2	Ag 328.068†	-3197.5	-3269.3	37.227 ug/L	37.227 ppb	19:03:50
2	As 188.979†	-49.8	-31.5	-0.7434 ug/L	-0.7434 ppb	19:04:10
2	B 249.677†	859.1	608.9	-103.77 ug/L	-103.77 ppb	19:03:50
2	Ba 233.527†	326.6	344.5	-0.4269 ug/L	-0.4269 ppb	19:04:10
2	Be 313.107†	-2956.1	-48.9	-0.0249 ug/L	-0.0249 ppb	19:03:50
2	Cd 226.502†	1089.6	1188.1	-0.8355 ug/L	-0.8355 ppb	19:03:50
2	Co 228.616†	108.0	136.1	4.0090 ug/L	4.0090 ppb	19:04:10
2	Cr 267.716†	-236.6	-199.2	-3.1977 ug/L	-3.1977 ppb	19:04:10
2	Cu 324.752†	1829.2	-1402.2	10.058 ug/L	10.058 ppb	19:03:50
2	Mn 257.610†	-8537.3	-8692.0	0.0463 ug/L	0.0463 ppb	19:03:50
2	Mo 202.031†	-170.3	-189.8	0.2291 ug/L	0.2291 ppb	19:04:10
2	Ni 231.604†	161.9	3.6	0.1054 ug/L	0.1054 ppb	19:04:10
2	P 214.914†	104.8	276.9	12.641 ug/L	12.641 ppb	19:04:10
2	Pb 220.353†	203.3	132.0	2.7774 ug/L	2.7774 ppb	19:04:10
2	S 181.975 Axial†	29.9	-6.6	-6.6341 ug/L	-6.6341 ppb	19:04:10
2	Sb 206.836†	22.1	-2.1	-0.7934 ug/L	-0.7934 ppb	19:04:10
2	Se 196.026†	-1077.7	-1071.9	-87.629 ug/L	-87.629 ppb	19:04:10
2	Si 251.611†	-99.8	-513.0	-27.043 ug/L	-27.043 ppb	19:04:10
2	Sn 189.927†	-22.9	-22.7	0.3438 ug/L	0.3438 ppb	19:04:10
2	Ti 334.940†	688.4	113.6	0.1765 ug/L	0.1765 ppb	19:03:50
2	Tl 190.801†	-42.0	-6.3	-2.8844 ug/L	-2.8844 ppb	19:04:10
2	U 409.014†	1042.6	922.2	5.5288 ug/L	5.5288 ppb	19:03:50
2	V 292.402†	1562.3	1836.9	-0.7188 ug/L	-0.7188 ppb	19:03:50
2	Zn 213.857†	2150.5	1693.2	-1.6800 ug/L	-1.6800 ppb	19:04:10
2	SiO2†	-61.0	-463.5	-52.339 ug/L	-52.339 ppb	19:04:47
3	Sc Radial	35914.6	35914.6	102 %		19:02:55
3	Y RADIAL	25049.6	25049.6	102.0 %		19:02:55

3	Al 396.153Radial†	-76.7	-32.2	-14.566 ug/L	-14.566 ppb	19:02:55
3	Ca 317.933Radial†	91.2	16.0	10.911 ug/L	10.911 ppb	19:03:15
3	Fe 238.204 Radial†	17812.6	17445.5	192390 ug/L	192390 ppb	19:02:55
3	K 766.490 Radial†	859.9	-175.4	-30.353 ug/L	-30.353 ppb	19:02:55
3	Mg 279.077 IEC†	15.0	11.7	24.159 ug/L	24.159 ppb	19:03:15
3	Na 589.592 Radial†	240.9	82.7	6.6110 ug/L	6.6110 ppb	19:02:55
3	Sr 421.552†	460.8	99.6	0.2331 ug/L	0.2331 ppb	19:02:55
3	Sc 361.383	969163.0	969163.0	100.10 %		19:04:16
3	Y 371.029	668908.6	668908.6	99.381 %		19:04:16
3	Ag 328.068†	-3235.2	-3301.9	36.284 ug/L	36.284 ppb	19:04:16
3	As 188.979†	-52.4	-34.0	-2.1186 ug/L	-2.1186 ppb	19:04:37
3	B 249.677†	814.9	563.4	-103.71 ug/L	-103.71 ppb	19:04:16
3	Ba 233.527†	336.6	353.9	-0.2027 ug/L	-0.2027 ppb	19:04:37
3	Be 313.107†	-2937.5	-25.7	-0.0126 ug/L	-0.0126 ppb	19:04:16
3	Cd 226.502†	1062.4	1159.2	-1.0368 ug/L	-1.0368 ppb	19:04:16
3	Co 228.616†	110.9	138.8	4.0883 ug/L	4.0883 ppb	19:04:37
3	Cr 267.716†	-245.7	-208.0	-3.3379 ug/L	-3.3379 ppb	19:04:37
3	Cu 324.752†	1924.6	-1309.9	10.359 ug/L	10.359 ppb	19:04:16
3	Mn 257.610†	-8494.0	-8635.3	-0.0582 ug/L	-0.0582 ppb	19:04:16
3	Mo 202.031†	-181.0	-200.2	-0.3183 ug/L	-0.3183 ppb	19:04:37
3	Ni 231.604†	156.1	-2.5	-0.0859 ug/L	-0.0859 ppb	19:04:37
3	P 214.914†	106.9	278.8	16.841 ug/L	16.841 ppb	19:04:37
3	Pb 220.353†	193.8	122.2	1.6791 ug/L	1.6791 ppb	19:04:37
3	S 181.975 Axial†	38.5	2.0	1.9874 ug/L	1.9874 ppb	19:04:37
3	Sb 206.836†	18.9	-5.4	-2.1209 ug/L	-2.1209 ppb	19:04:37
3	Se 196.026†	-1071.6	-1064.0	-88.747 ug/L	-88.747 ppb	19:04:37
3	Si 251.611†	-86.0	-499.1	-26.296 ug/L	-26.296 ppb	19:04:37
3	Sn 189.927†	-19.9	-19.8	0.6897 ug/L	0.6897 ppb	19:04:37
3	Ti 334.940†	734.2	158.2	0.2531 ug/L	0.2531 ppb	19:04:16
3	Tl 190.801†	-42.2	-6.5	-2.9515 ug/L	-2.9515 ppb	19:04:37
3	U 409.014†	1111.4	989.3	9.3152 ug/L	9.3152 ppb	19:04:16
3	V 292.402†	1621.1	1893.1	0.0162 ug/L	0.0162 ppb	19:04:16
3	Zn 213.857†	2181.8	1721.1	-1.0708 ug/L	-1.0708 ppb	19:04:37
3	SiO2†	-76.5	-478.8	-54.077 ug/L	-54.077 ppb	19:04:53

Mean Data: LR1 200k Fe

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	966399.1	99.811	%	0.3659				0.37%
Sc Radial	35890.8	102	%	0.5				0.46%
Y 371.029	666702.8	99.053	%	0.4286				0.43%
Y RADIAL	24975.1	101.7	%	0.50				0.50%
Ag 328.068†	-3306.4	36.456	ug/L	0.7013	36.456	ppb	0.7013	1.92%
Al 396.153Radial†	-23.3	-10.459	ug/L	7.2667	-10.459	ppb	7.2667	69.48%
As 188.979†	-33.7	-1.9584	ug/L	1.14327	-1.9584	ppb	1.14327	58.38%
B 249.677†	602.2	-102.94	ug/L	1.383	-102.94	ppb	1.383	1.34%
Ba 233.527†	346.2	-0.3475	ug/L	0.12560	-0.3475	ppb	0.12560	36.15%
Be 313.107†	-43.5	-0.0220	ug/L	0.00833	-0.0220	ppb	0.00833	37.84%
Ca 317.933Radial†	13.7	9.3410	ug/L	3.25287	9.3410	ppb	3.25287	34.82%
Cd 226.502†	1179.7	-0.8039	ug/L	0.25023	-0.8039	ppb	0.25023	31.13%
Co 228.616†	133.2	3.9226	ug/L	0.22187	3.9226	ppb	0.22187	5.66%
Cr 267.716†	-206.3	-3.3121	ug/L	0.10387	-3.3121	ppb	0.10387	3.14%
Cu 324.752†	-1342.5	10.238	ug/L	0.1592	10.238	ppb	0.1592	1.56%
Fe 238.204 Radial†	17505.2	193050	ug/L	1435.2	193050	ppb	1435.2	0.74%
K 766.490 Radial†	-164.4	-28.452	ug/L	10.8282	-28.452	ppb	10.8282	38.06%
Mg 279.077 IEC†	14.1	61.972	ug/L	33.5087	61.972	ppb	33.5087	54.07%
Mn 257.610†	-8690.9	-0.1173	ug/L	0.19975	-0.1173	ppb	0.19975	170.33%
Mo 202.031†	-191.3	0.0941	ug/L	0.36420	0.0941	ppb	0.36420	386.86%
Na 589.592 Radial†	65.7	5.3065	ug/L	2.55806	5.3065	ppb	2.55806	48.21%
Ni 231.604†	1.7	0.0475	ug/L	0.11589	0.0475	ppb	0.11589	243.76%
P 214.914†	276.3	13.980	ug/L	2.4797	13.980	ppb	2.4797	17.74%
Pb 220.353†	123.8	1.8399	ug/L	0.86828	1.8399	ppb	0.86828	47.19%
S 181.975 Axial†	0.0	0.0226	ug/L	5.92390	0.0226	ppb	5.92390	>999.9%
Sb 206.836†	-4.7	-1.8352	ug/L	0.93237	-1.8352	ppb	0.93237	50.81%
Se 196.026†	-1071.3	-90.655	ug/L	4.3095	-90.655	ppb	4.3095	4.75%
Si 251.611†	-509.6	-26.859	ug/L	0.4977	-26.859	ppb	0.4977	1.85%
Sn 189.927†	-21.7	0.4468	ug/L	0.21110	0.4468	ppb	0.21110	47.24%
Sr 421.552†	83.7	0.1959	ug/L	0.03319	0.1959	ppb	0.03319	16.94%
Ti 334.940†	134.9	0.2129	ug/L	0.03843	0.2129	ppb	0.03843	18.05%
Tl 190.801†	-9.7	-4.4361	ug/L	2.62981	-4.4361	ppb	2.62981	59.28%

Sequence No.: 2

Autosampler Location: 7

Sample ID: CCV

Date Collected: 4/23/2007 19:07:04

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	36457.0	36457.0	103 %		19:08:48
1	Y RADIAL	25229.2	25229.2	102.7 %		19:08:48
1	Al 396.153Radial†	11056.5	10736.4	4919.0 ug/L	4919.0 ppb	19:08:48
1	Ca 317.933Radial†	7473.2	7154.1	4900.3 ug/L	4900.3 ppb	19:09:08
1	Fe 238.204 Radial†	507.4	448.6	4964.9 ug/L	4964.9 ppb	19:09:08
1	K 766.490 Radial†	30997.9	28959.9	5012.9 ug/L	5012.9 ppb	19:08:48
1	Mg 279.077 IEC†	328.6	314.7	5040.6 ug/L	5040.6 ppb	19:09:08
1	Na 589.592 Radial†	134722.6	130142.7	9927.3 ug/L	9927.3 ppb	19:08:48
1	Sr 421.552†	219137.2	211585.1	495.80 ug/L	495.80 ppb	19:08:48
1	Sc 361.383	994585.9	994585.9	102.72 %		19:10:08
1	Y 371.029	684060.6	684060.6	101.63 %		19:10:08
1	Ag 328.068†	71412.6	69450.0	499.63 ug/L	499.63 ppb	19:10:14
1	As 188.979†	1040.4	1031.2	493.91 ug/L	493.91 ppb	19:10:34
1	B 249.677†	17252.5	16544.4	497.89 ug/L	497.89 ppb	19:10:14
1	Ba 233.527†	31645.3	30824.2	498.04 ug/L	498.04 ppb	19:10:14
1	Be 313.107†	979963.6	956899.1	499.63 ug/L	499.63 ppb	19:10:08
1	Cd 226.502†	35596.3	34750.7	499.86 ug/L	499.86 ppb	19:10:14
1	Co 228.616†	17464.0	17029.2	503.34 ug/L	503.34 ppb	19:10:14
1	Cr 267.716†	31320.2	30527.6	497.04 ug/L	497.04 ppb	19:10:14
1	Cu 324.752†	94490.7	88753.7	492.72 ug/L	492.72 ppb	19:10:14
1	Mn 257.610†	225159.0	219041.7	494.12 ug/L	494.12 ppb	19:10:14
1	Mo 202.031†	11734.8	11404.4	491.20 ug/L	491.20 ppb	19:10:34
1	Ni 231.604†	16554.3	15957.1	502.10 ug/L	502.10 ppb	19:10:14
1	P 214.914†	2814.3	2911.7	2440.0 ug/L	2440.0 ppb	19:10:34
1	Pb 220.353†	4023.4	3845.3	493.25 ug/L	493.25 ppb	19:10:34
1	S 181.975 Axial†	1026.0	962.3	971.59 ug/L	971.59 ppb	19:10:34
1	Sb 206.836†	1276.0	1218.0	490.57 ug/L	490.57 ppb	19:10:34
1	Se 196.026†	1136.3	1112.8	506.85 ug/L	506.85 ppb	19:10:34
1	Si 251.611†	48323.2	46629.3	2462.6 ug/L	2462.6 ppb	19:10:14
1	Sn 189.927†	3868.9	3766.5	487.31 ug/L	487.31 ppb	19:10:34
1	Ti 334.940†	285940.0	277786.0	488.46 ug/L	488.46 ppb	19:10:14
1	Tl 190.801†	1091.8	1098.6	499.92 ug/L	499.92 ppb	19:10:34
1	U 409.014†	10686.7	10282.5	502.37 ug/L	502.37 ppb	19:10:14
1	V 292.402†	56067.2	54854.8	480.31 ug/L	480.31 ppb	19:10:14
1	Zn 213.857†	42124.9	40549.8	495.03 ug/L	495.03 ppb	19:10:14
1	SiO2†	48171.8	46492.6	5250.5 ug/L	5250.5 ppb	19:11:44
2	Sc Radial	35809.5	35809.5	102 %		19:09:14
2	Y RADIAL	24830.1	24830.1	101.1 %		19:09:14
2	Al 396.153Radial†	10875.1	10751.1	4925.6 ug/L	4925.6 ppb	19:09:14
2	Ca 317.933Radial†	7518.8	7329.6	5020.5 ug/L	5020.5 ppb	19:09:34
2	Fe 238.204 Radial†	511.1	461.1	5103.0 ug/L	5103.0 ppb	19:09:34
2	K 766.490 Radial†	30510.6	29022.2	5023.7 ug/L	5023.7 ppb	19:09:14
2	Mg 279.077 IEC†	328.3	320.2	5127.3 ug/L	5127.3 ppb	19:09:34
2	Na 589.592 Radial†	132516.9	130326.6	9941.3 ug/L	9941.3 ppb	19:09:14
2	Sr 421.552†	214937.9	211282.2	495.08 ug/L	495.08 ppb	19:09:14
2	Sc 361.383	984065.4	984065.4	101.64 %		19:10:40
2	Y 371.029	676808.9	676808.9	100.55 %		19:10:40
2	Ag 328.068†	70972.9	69760.6	501.89 ug/L	501.89 ppb	19:10:46
2	As 188.979†	1036.0	1037.7	497.03 ug/L	497.03 ppb	19:11:06
2	B 249.677†	17155.9	16628.9	500.37 ug/L	500.37 ppb	19:10:46
2	Ba 233.527†	31409.8	30921.9	499.61 ug/L	499.61 ppb	19:10:46
2	Be 313.107†	970130.2	957422.9	499.91 ug/L	499.91 ppb	19:10:40
2	Cd 226.502†	35240.1	34770.7	500.14 ug/L	500.14 ppb	19:10:46
2	Co 228.616†	17286.0	17035.8	503.54 ug/L	503.54 ppb	19:10:46
2	Cr 267.716†	31095.5	30632.5	498.75 ug/L	498.75 ppb	19:10:46
2	Cu 324.752†	93962.3	89217.1	495.30 ug/L	495.30 ppb	19:10:46
2	Mn 257.610†	223222.8	219480.0	495.12 ug/L	495.12 ppb	19:10:46
2	Mo 202.031†	11718.9	11510.9	495.79 ug/L	495.79 ppb	19:11:06
2	Ni 231.604†	16368.6	15946.7	501.77 ug/L	501.77 ppb	19:10:46

2	P 214.914†	2804.9	2931.7	2456.6 ug/L	2456.6 ppb	19:11:06
2	Pb 220.353†	4031.2	3894.9	499.60 ug/L	499.60 ppb	19:11:06
2	S 181.975 Axial†	1021.1	968.2	977.50 ug/L	977.50 ppb	19:11:06
2	Sb 206.836†	1262.7	1218.2	490.63 ug/L	490.63 ppb	19:11:06
2	Se 196.026†	1132.9	1121.2	510.90 ug/L	510.90 ppb	19:11:06
2	Si 251.611†	47897.2	46713.0	2466.9 ug/L	2466.9 ppb	19:10:46
2	Sn 189.927†	3853.6	3791.7	490.59 ug/L	490.59 ppb	19:11:06
2	Ti 334.940†	283776.1	278632.9	489.96 ug/L	489.96 ppb	19:10:46
2	Tl 190.801†	1086.7	1104.9	502.81 ug/L	502.81 ppb	19:11:06
2	U 409.014†	10615.1	10323.2	504.32 ug/L	504.32 ppb	19:10:46
2	V 292.402†	55586.2	54965.1	481.16 ug/L	481.16 ppb	19:10:46
2	Zn 213.857†	41863.9	40731.4	497.22 ug/L	497.22 ppb	19:10:46
2	SiO2†	48032.0	46856.4	5291.6 ug/L	5291.6 ppb	19:11:49
3	Sc Radial	36192.2	36192.2	103 %		19:09:39
3	Y RADIAL	25087.5	25087.5	102.2 %		19:09:39
3	Al 396.153Radial†	10928.9	10690.3	4897.9 ug/L	4897.9 ppb	19:09:39
3	Ca 317.933Radial†	7538.9	7271.0	4980.3 ug/L	4980.3 ppb	19:10:00
3	Fe 238.204 Radial†	506.6	451.4	4995.8 ug/L	4995.8 ppb	19:10:00
3	K 766.490 Radial†	30800.6	28987.0	5017.6 ug/L	5017.6 ppb	19:09:39
3	Mg 279.077 IEC†	329.2	317.6	5086.8 ug/L	5086.8 ppb	19:10:00
3	Na 589.592 Radial†	133457.4	129863.4	9906.0 ug/L	9906.0 ppb	19:09:39
3	Sr 421.552†	216814.7	210873.0	494.12 ug/L	494.12 ppb	19:09:39
3	Sc 361.383	992285.4	992285.4	102.49 %		19:11:12
3	Y 371.029	682706.9	682706.9	101.43 %		19:11:12
3	Ag 328.068†	70814.6	69027.7	496.60 ug/L	496.60 ppb	19:11:18
3	As 188.979†	1032.2	1025.6	491.21 ug/L	491.21 ppb	19:11:38
3	B 249.677†	17118.5	16452.7	495.10 ug/L	495.10 ppb	19:11:18
3	Ba 233.527†	31284.6	30543.6	493.51 ug/L	493.51 ppb	19:11:18
3	Be 313.107†	976330.3	955565.5	498.93 ug/L	498.93 ppb	19:11:12
3	Cd 226.502†	35100.4	34347.2	494.05 ug/L	494.05 ppb	19:11:18
3	Co 228.616†	17224.3	16834.7	497.59 ug/L	497.59 ppb	19:11:18
3	Cr 267.716†	31045.8	30330.6	493.83 ug/L	493.83 ppb	19:11:18
3	Cu 324.752†	93737.7	88232.2	489.83 ug/L	489.83 ppb	19:11:18
3	Mn 257.610†	222604.8	217057.7	489.65 ug/L	489.65 ppb	19:11:18
3	Mo 202.031†	11682.2	11379.5	490.13 ug/L	490.13 ppb	19:11:38
3	Ni 231.604†	16346.1	15791.2	496.88 ug/L	496.88 ppb	19:11:18
3	P 214.914†	2798.8	2902.9	2432.5 ug/L	2432.5 ppb	19:11:38
3	Pb 220.353†	4003.0	3834.6	491.86 ug/L	491.86 ppb	19:11:38
3	S 181.975 Axial†	1023.5	962.2	971.46 ug/L	971.46 ppb	19:11:38
3	Sb 206.836†	1277.4	1222.2	492.25 ug/L	492.25 ppb	19:11:38
3	Se 196.026†	1127.8	1107.0	504.36 ug/L	504.36 ppb	19:11:38
3	Si 251.611†	47793.7	46221.7	2440.9 ug/L	2440.9 ppb	19:11:18
3	Sn 189.927†	3863.7	3770.1	487.79 ug/L	487.79 ppb	19:11:38
3	Ti 334.940†	283545.5	276094.9	485.49 ug/L	485.49 ppb	19:11:18
3	Tl 190.801†	1088.7	1098.0	499.67 ug/L	499.67 ppb	19:11:38
3	U 409.014†	10664.1	10284.6	502.48 ug/L	502.48 ppb	19:11:18
3	V 292.402†	55495.5	54423.5	476.45 ug/L	476.45 ppb	19:11:18
3	Zn 213.857†	41724.9	40254.6	491.40 ug/L	491.40 ppb	19:11:18
3	SiO2†	48094.6	46526.0	5254.3 ug/L	5254.3 ppb	19:11:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	990312.2	102.28 %	0.571			0.56%
Sc Radial	36152.9	103 %	0.9			0.90%
Y 371.029	681192.1	101.21 %	0.573			0.57%
Y RADIAL	25048.9	102.0 %	0.82			0.81%
Ag 328.068†	69412.7	499.37 ug/L	2.654	499.37 ppb	2.654	0.53%
QC value within limits for Ag 328.068 Recovery = 99.87%						
Al 396.153Radial†	10725.9	4914.2 ug/L	14.51	4914.2 ppb	14.51	0.30%
QC value within limits for Al 396.153Radial Recovery = 98.28%						
As 188.979†	1031.5	494.05 ug/L	2.909	494.05 ppb	2.909	0.59%
QC value within limits for As 188.979 Recovery = 98.81%						
B 249.677†	16542.0	497.79 ug/L	2.636	497.79 ppb	2.636	0.53%
QC value within limits for B 249.677 Recovery = 99.56%						
Ba 233.527†	30763.2	497.05 ug/L	3.171	497.05 ppb	3.171	0.64%
QC value within limits for Ba 233.527 Recovery = 99.41%						
Be 313.107†	956629.2	499.49 ug/L	0.505	499.49 ppb	0.505	0.10%
QC value within limits for Be 313.107 Recovery = 99.90%						
Ca 317.933Radial†	7251.6	4967.0 ug/L	61.20	4967.0 ppb	61.20	1.23%

	QC value within limits for Ca 317.933Radial	Recovery = 99.34%				
Cd 226.502†	34622.9	498.02 ug/L	3.437	498.02 ppb	3.437	0.69%
	QC value within limits for Cd 226.502	Recovery = 99.60%				
Co 228.616†	16966.6	501.49 ug/L	3.377	501.49 ppb	3.377	0.67%
	QC value within limits for Co 228.616	Recovery = 100.30%				
Cr 267.716†	30496.9	496.54 ug/L	2.495	496.54 ppb	2.495	0.50%
	QC value within limits for Cr 267.716	Recovery = 99.31%				
Cu 324.752†	88734.3	492.62 ug/L	2.738	492.62 ppb	2.738	0.56%
	QC value within limits for Cu 324.752	Recovery = 98.52%				
Fe 238.204 Radial†	453.7	5021.2 ug/L	72.48	5021.2 ppb	72.48	1.44%
	QC value within limits for Fe 238.204 Radial	Recovery = 100.42%				
K 766.490 Radial†	28989.7	5018.1 ug/L	5.41	5018.1 ppb	5.41	0.11%
	QC value within limits for K 766.490 Radial	Recovery = 100.36%				
Mg 279.077 IEC†	317.5	5084.9 ug/L	43.41	5084.9 ppb	43.41	0.85%
	QC value within limits for Mg 279.077 IEC	Recovery = 101.70%				
Mn 257.610†	218526.5	492.97 ug/L	2.913	492.97 ppb	2.913	0.59%
	QC value within limits for Mn 257.610	Recovery = 98.59%				
Mo 202.031†	11431.6	492.37 ug/L	3.007	492.37 ppb	3.007	0.61%
	QC value within limits for Mo 202.031	Recovery = 98.47%				
Na 589.592 Radial†	130110.9	9924.9 ug/L	17.79	9924.9 ppb	17.79	0.18%
	QC value within limits for Na 589.592 Radial	Recovery = 99.25%				
Ni 231.604†	15898.3	500.25 ug/L	2.922	500.25 ppb	2.922	0.58%
	QC value within limits for Ni 231.604	Recovery = 100.05%				
P 214.914†	2915.5	2443.0 ug/L	12.32	2443.0 ppb	12.32	0.50%
	QC value within limits for P 214.914	Recovery = 97.72%				
Pb 220.353†	3858.3	494.90 ug/L	4.126	494.90 ppb	4.126	0.83%
	QC value within limits for Pb 220.353	Recovery = 98.98%				
S 181.975 Axial†	964.2	973.52 ug/L	3.451	973.52 ppb	3.451	0.35%
	QC value within limits for S 181.975 Axial	Recovery = 97.35%				
Sb 206.836†	1219.4	491.15 ug/L	0.951	491.15 ppb	0.951	0.19%
	QC value within limits for Sb 206.836	Recovery = 98.23%				
Se 196.026†	1113.7	507.37 ug/L	3.302	507.37 ppb	3.302	0.65%
	QC value within limits for Se 196.026	Recovery = 101.47%				
Si 251.611†	46521.3	2456.8 ug/L	13.90	2456.8 ppb	13.90	0.57%
	QC value within limits for Si 251.611	Recovery = 98.27%				
Sn 189.927†	3776.1	488.57 ug/L	1.771	488.57 ppb	1.771	0.36%
	QC value within limits for Sn 189.927	Recovery = 97.71%				
Sr 421.552†	211246.8	495.00 ug/L	0.839	495.00 ppb	0.839	0.17%
	QC value within limits for Sr 421.552	Recovery = 99.00%				
Ti 334.940†	277504.6	487.97 ug/L	2.271	487.97 ppb	2.271	0.47%
	QC value within limits for Ti 334.940	Recovery = 97.59%				
Tl 190.801†	1100.5	500.80 ug/L	1.746	500.80 ppb	1.746	0.35%
	QC value within limits for Tl 190.801	Recovery = 100.16%				
U 409.014†	10296.8	503.06 ug/L	1.097	503.06 ppb	1.097	0.22%
	QC value within limits for U 409.014	Recovery = 100.61%				
V 292.402†	54747.8	479.31 ug/L	2.509	479.31 ppb	2.509	0.52%
	QC value within limits for V 292.402	Recovery = 95.86%				
Zn 213.857†	40511.9	494.55 ug/L	2.938	494.55 ppb	2.938	0.59%
	QC value within limits for Zn 213.857	Recovery = 98.91%				
SiO2†	46625.0	5265.5 ug/L	22.71	5265.5 ppb	22.71	0.43%
	QC value within limits for SiO2	Recovery = 98.47%				
All analyte(s) passed QC.						

Sequence No.: 3

Autosampler Location: 8

Sample ID: CCB

Date Collected: 4/23/2007 19:14:04

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35953.2	35953.2	102 %		19:15:48
1	Y RADIAL	25077.6	25077.6	102.1 %		19:15:48
1	Al 396.153Radial†	-54.5	-10.3	-4.7629 ug/L	-4.7629 ppb	19:15:48
1	Ca 317.933Radial†	68.4	-6.6	-4.4963 ug/L	-4.4963 ppb	19:16:08
1	Fe 238.204 Radial†	41.8	-1.0	-11.425 ug/L	-11.425 ppb	19:16:08
1	K 766.490 Radial†	1026.4	-13.1	-2.2592 ug/L	-2.2592 ppb	19:15:48
1	Mg 279.077 IEC†	2.7	-0.4	-6.4287 ug/L	-6.4287 ppb	19:16:08
1	Na 589.592 Radial†	110.5	-45.5	-3.4853 ug/L	-3.4853 ppb	19:15:48
1	Sr 421.552†	354.0	-5.5	-0.0128 ug/L	-0.0128 ppb	19:15:48
1	Sc 361.383	977134.7	977134.7	100.92 %		19:17:06
1	Y 371.029	679649.0	679649.0	100.98 %		19:17:06
1	Ag 328.068†	104.0	33.3	0.2366 ug/L	0.2366 ppb	19:17:12
1	As 188.979†	-18.1	0.4	0.2085 ug/L	0.2085 ppb	19:17:32
1	B 249.677†	682.3	425.3	12.942 ug/L	12.942 ppb	19:17:32
1	Ba 233.527†	-9.2	8.5	0.1379 ug/L	0.1379 ppb	19:17:32
1	Be 313.107†	-2706.7	227.0	0.1189 ug/L	0.1189 ppb	19:17:12
1	Cd 226.502†	-85.2	13.4	0.1929 ug/L	0.1929 ppb	19:17:32
1	Co 228.616†	-30.1	-1.8	-0.0520 ug/L	-0.0520 ppb	19:17:32
1	Cr 267.716†	-25.6	12.2	0.1974 ug/L	0.1974 ppb	19:17:32
1	Cu 324.752†	3280.1	17.6	0.0966 ug/L	0.0966 ppb	19:17:12
1	Mn 257.610†	228.0	76.4	0.1720 ug/L	0.1720 ppb	19:17:32
1	Mo 202.031†	27.9	8.2	0.3542 ug/L	0.3542 ppb	19:17:32
1	Ni 231.604†	159.1	-0.9	-0.0272 ug/L	-0.0272 ppb	19:17:32
1	P 214.914†	-167.5	6.1	5.1118 ug/L	5.1118 ppb	19:17:32
1	Pb 220.353†	77.2	5.0	0.6483 ug/L	0.6483 ppb	19:17:32
1	S 181.975 Axial†	31.8	-5.0	-5.0514 ug/L	-5.0514 ppb	19:17:32
1	Sb 206.836†	29.2	4.8	1.9174 ug/L	1.9174 ppb	19:17:32
1	Se 196.026†	-8.9	-2.3	-1.0277 ug/L	-1.0277 ppb	19:17:32
1	Si 251.611†	447.8	30.6	1.6165 ug/L	1.6165 ppb	19:17:32
1	Sn 189.927†	2.4	2.5	0.3199 ug/L	0.3199 ppb	19:17:32
1	Ti 334.940†	724.0	142.1	0.2505 ug/L	0.2505 ppb	19:17:12
1	Tl 190.801†	-37.9	-1.9	-0.8404 ug/L	-0.8404 ppb	19:17:32
1	U 409.014†	74.7	-46.9	-2.3134 ug/L	-2.3134 ppb	19:17:12
1	V 292.402†	-240.6	35.2	0.3038 ug/L	0.3038 ppb	19:17:12
1	Zn 213.857†	474.3	11.4	0.1409 ug/L	0.1409 ppb	19:17:32
1	SiO2†	451.4	44.9	5.0683 ug/L	5.0683 ppb	19:18:54
2	Sc Radial	35718.7	35718.7	101 %		19:16:13
2	Y RADIAL	24916.7	24916.7	101.5 %		19:16:13
2	Al 396.153Radial†	-58.3	-14.5	-6.6538 ug/L	-6.6538 ppb	19:16:13
2	Ca 317.933Radial†	64.7	-9.7	-6.6555 ug/L	-6.6555 ppb	19:16:33
2	Fe 238.204 Radial†	43.6	0.9	10.198 ug/L	10.198 ppb	19:16:33
2	K 766.490 Radial†	1022.3	-10.4	-1.8042 ug/L	-1.8042 ppb	19:16:13
2	Mg 279.077 IEC†	2.8	-0.3	-4.3863 ug/L	-4.3863 ppb	19:16:33
2	Na 589.592 Radial†	167.4	11.4	0.8781 ug/L	0.8781 ppb	19:16:13
2	Sr 421.552†	364.0	6.6	0.0157 ug/L	0.0157 ppb	19:16:13
2	Sc 361.383	978557.7	978557.7	101.07 %		19:17:37
2	Y 371.029	680253.6	680253.6	101.07 %		19:17:37
2	Ag 328.068†	98.9	28.1	0.2009 ug/L	0.2009 ppb	19:17:42
2	As 188.979†	-17.9	0.7	0.3159 ug/L	0.3159 ppb	19:18:03
2	B 249.677†	637.0	379.5	11.534 ug/L	11.534 ppb	19:18:03
2	Ba 233.527†	-17.2	0.6	0.0094 ug/L	0.0094 ppb	19:18:03
2	Be 313.107†	-2870.7	68.6	0.0360 ug/L	0.0360 ppb	19:17:42
2	Cd 226.502†	-86.4	12.3	0.1770 ug/L	0.1770 ppb	19:18:03
2	Co 228.616†	-19.0	9.3	0.2747 ug/L	0.2747 ppb	19:18:03
2	Cr 267.716†	-28.9	8.9	0.1444 ug/L	0.1444 ppb	19:18:03
2	Cu 324.752†	3205.0	-61.4	-0.3399 ug/L	-0.3399 ppb	19:17:42
2	Mn 257.610†	188.3	36.8	0.0838 ug/L	0.0838 ppb	19:18:03
2	Mo 202.031†	17.4	-2.1	-0.0920 ug/L	-0.0920 ppb	19:18:03
2	Ni 231.604†	148.1	-11.9	-0.3756 ug/L	-0.3756 ppb	19:18:03

2	P 214.914†	-170.9	2.9	2.4615 ug/L	2.4615 ppb	19:18:03
2	Pb 220.353†	71.0	-1.1	-0.1466 ug/L	-0.1466 ppb	19:18:03
2	S 181.975 Axial†	33.4	-3.5	-3.5097 ug/L	-3.5097 ppb	19:18:03
2	Sb 206.836†	27.9	3.3	1.3502 ug/L	1.3502 ppb	19:18:03
2	Se 196.026†	-8.3	-1.6	-0.7141 ug/L	-0.7141 ppb	19:18:03
2	Si 251.611†	430.9	13.2	0.7024 ug/L	0.7024 ppb	19:18:03
2	Sn 189.927†	8.2	8.3	1.0675 ug/L	1.0675 ppb	19:18:03
2	Ti 334.940†	639.1	57.0	0.0989 ug/L	0.0989 ppb	19:17:42
2	Tl 190.801†	-33.8	2.2	1.0022 ug/L	1.0022 ppb	19:18:03
2	U 409.014†	140.9	18.4	0.9085 ug/L	0.9085 ppb	19:17:42
2	V 292.402†	-307.5	-30.6	-0.2734 ug/L	-0.2734 ppb	19:17:42
2	Zn 213.857†	466.9	3.3	0.0408 ug/L	0.0408 ppb	19:18:03
2	SiO2†	435.2	28.1	3.1775 ug/L	3.1775 ppb	19:19:14
3	Sc Radial	36005.2	36005.2	102 %		19:16:39
3	Y RADIAL	25098.7	25098.7	102.2 %		19:16:39
3	Al 396.153Radial†	-45.5	-1.4	-0.6692 ug/L	-0.6692 ppb	19:16:39
3	Ca 317.933Radial†	75.1	-0.0	-0.0300 ug/L	-0.0300 ppb	19:16:59
3	Fe 238.204 Radial†	42.5	-0.5	-5.5070 ug/L	-5.5070 ppb	19:16:59
3	K 766.490 Radial†	1046.5	5.2	0.9060 ug/L	0.9060 ppb	19:16:39
3	Mg 279.077 IEC†	3.6	0.5	7.9615 ug/L	7.9615 ppb	19:16:59
3	Na 589.592 Radial†	129.8	-26.8	-2.0384 ug/L	-2.0384 ppb	19:16:39
3	Sr 421.552†	370.7	10.2	0.0240 ug/L	0.0240 ppb	19:16:39
3	Sc 361.383	971016.2	971016.2	100.29 %		19:18:08
3	Y 371.029	674955.0	674955.0	100.28 %		19:18:08
3	Ag 328.068†	91.1	21.0	0.1470 ug/L	0.1470 ppb	19:18:13
3	As 188.979†	-18.3	0.1	0.0658 ug/L	0.0658 ppb	19:18:34
3	B 249.677†	640.5	387.9	11.800 ug/L	11.800 ppb	19:18:34
3	Ba 233.527†	-15.0	2.7	0.0431 ug/L	0.0431 ppb	19:18:34
3	Be 313.107†	-2929.8	-12.4	-0.0064 ug/L	-0.0064 ppb	19:18:13
3	Cd 226.502†	-92.1	6.0	0.0871 ug/L	0.0871 ppb	19:18:34
3	Co 228.616†	-26.1	2.1	0.0619 ug/L	0.0619 ppb	19:18:34
3	Cr 267.716†	-39.3	-1.7	-0.0271 ug/L	-0.0271 ppb	19:18:34
3	Cu 324.752†	3275.3	33.3	0.1841 ug/L	0.1841 ppb	19:18:13
3	Mn 257.610†	173.3	23.3	0.0517 ug/L	0.0517 ppb	19:18:34
3	Mo 202.031†	24.7	5.3	0.2263 ug/L	0.2263 ppb	19:18:34
3	Ni 231.604†	150.7	-8.2	-0.2589 ug/L	-0.2589 ppb	19:18:34
3	P 214.914†	-160.1	12.4	10.459 ug/L	10.459 ppb	19:18:34
3	Pb 220.353†	79.9	8.2	1.0541 ug/L	1.0541 ppb	19:18:34
3	S 181.975 Axial†	35.2	-1.4	-1.4544 ug/L	-1.4544 ppb	19:18:34
3	Sb 206.836†	27.2	2.9	1.1854 ug/L	1.1854 ppb	19:18:34
3	Se 196.026†	-10.0	-3.4	-1.5213 ug/L	-1.5213 ppb	19:18:34
3	Si 251.611†	431.0	16.6	0.8786 ug/L	0.8786 ppb	19:18:34
3	Sn 189.927†	6.6	6.7	0.8663 ug/L	0.8663 ppb	19:18:34
3	Ti 334.940†	588.8	11.9	0.0206 ug/L	0.0206 ppb	19:18:13
3	Tl 190.801†	-29.2	6.6	2.9917 ug/L	2.9917 ppb	19:18:34
3	U 409.014†	132.6	11.3	0.5581 ug/L	0.5581 ppb	19:18:13
3	V 292.402†	-285.2	-10.8	-0.1027 ug/L	-0.1027 ppb	19:18:13
3	Zn 213.857†	469.6	9.7	0.1181 ug/L	0.1181 ppb	19:18:34
3	SiO2†	452.8	49.1	5.5394 ug/L	5.5394 ppb	19:19:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	975569.5	100.76 %	0.414			0.41%
Sc Radial	35892.4	102 %	0.4			0.43%
Y 371.029	678285.9	100.77 %	0.431			0.43%
Y RADIAL	25031.0	101.9 %	0.41			0.40%
Ag 328.068†	27.5	0.1948 ug/L	0.04513	0.1948 ppb	0.04513	23.17%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-8.7	-4.0287 ug/L	3.05914	-4.0287 ppb	3.05914	75.93%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.4	0.1967 ug/L	0.12545	0.1967 ppb	0.12545	63.77%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	397.6	12.092 ug/L	0.7479	12.092 ppb	0.7479	6.19%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.9	0.0634 ug/L	0.06664	0.0634 ppb	0.06664	105.03%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	94.4	0.0495 ug/L	0.06373	0.0495 ppb	0.06373	128.77%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-5.4	-3.7273 ug/L	3.37906	-3.7273 ppb	3.37906	90.66%

	QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	10.6	0.1523 ug/L	0.05703	0.1523 ppb	0.05703	37.44%	
	QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.2	0.0949 ug/L	0.16584	0.0949 ppb	0.16584	174.81%	
	QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	6.5	0.1049 ug/L	0.11735	0.1049 ppb	0.11735	111.87%	
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-3.5	-0.0198 ug/L	0.28070	-0.0198 ppb	0.28070	>999.9%	
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.2	-2.2446 ug/L	11.17427	-2.2446 ppb	11.17427	497.84%	
	QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-6.1	-1.0524 ug/L	1.71129	-1.0524 ppb	1.71129	162.60%	
	QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.1	-0.9512 ug/L	7.78585	-0.9512 ppb	7.78585	818.56%	
	QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	45.5	0.1025 ug/L	0.06229	0.1025 ppb	0.06229	60.77%	
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	3.8	0.1628 ug/L	0.22974	0.1628 ppb	0.22974	141.08%	
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-20.3	-1.5485 ug/L	2.22258	-1.5485 ppb	2.22258	143.53%	
	QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-7.0	-0.2206 ug/L	0.17733	-0.2206 ppb	0.17733	80.39%	
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	7.1	6.0109 ug/L	4.07408	6.0109 ppb	4.07408	67.78%	
	QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	4.0	0.5186 ug/L	0.61079	0.5186 ppb	0.61079	117.78%	
	QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-3.3	-3.3385 ug/L	1.80458	-3.3385 ppb	1.80458	54.05%	
	QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.7	1.4844 ug/L	0.38400	1.4844 ppb	0.38400	25.87%	
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.4	-1.0877 ug/L	0.40694	-1.0877 ppb	0.40694	37.41%	
	QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	20.1	1.0658 ug/L	0.48497	1.0658 ppb	0.48497	45.50%	
	QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.8	0.7512 ug/L	0.38683	0.7512 ppb	0.38683	51.49%	
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	3.8	0.0089 ug/L	0.01932	0.0089 ppb	0.01932	216.21%	
	QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	70.3	0.1233 ug/L	0.11689	0.1233 ppb	0.11689	94.76%	
	QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	2.3	1.0512 ug/L	1.91649	1.0512 ppb	1.91649	182.32%	
	QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-5.7	-0.2823 ug/L	1.76770	-0.2823 ppb	1.76770	626.25%	
	QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-2.1	-0.0241 ug/L	0.29654	-0.0241 ppb	0.29654	>999.9%	
	QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	8.1	0.0999 ug/L	0.05249	0.0999 ppb	0.05249	52.52%	
	QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	40.7	4.5951 ug/L	1.25001	4.5951 ppb	1.25001	27.20%	
	QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.							

Sequence No.: 11

Autosampler Location: 7

Sample ID: CCV

Date Collected: 4/23/2007 20:11:50

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35544.6	35544.6	101 %		20:13:34
1	Y RADIAL	24584.6	24584.6	100.1 %		20:13:34
1	Al 396.153Radial†	10845.3	10801.4	4948.8 ug/L	4948.8 ppb	20:13:34
1	Ca 317.933Radial†	7536.7	7402.6	5070.4 ug/L	5070.4 ppb	20:13:34
1	Fe 238.204 Radial†	499.3	453.2	5015.3 ug/L	5015.3 ppb	20:13:54
1	K 766.490 Radial†	30479.5	29215.3	5057.1 ug/L	5057.1 ppb	20:13:34
1	Mg 279.077 IEC†	324.8	319.1	5110.4 ug/L	5110.4 ppb	20:13:54
1	Na 589.592 Radial†	132911.5	131690.7	10045 ug/L	10045 ppb	20:13:34
1	Sr 421.552†	215370.9	213289.4	499.79 ug/L	499.79 ppb	20:13:34
1	Sc 361.383	973920.1	973920.1	100.59 %		20:14:54
1	Y 371.029	668935.3	668935.3	99.385 %		20:14:54
1	Ag 328.068†	70640.6	70157.7	504.71 ug/L	504.71 ppb	20:15:00
1	As 188.979†	1021.4	1033.8	495.18 ug/L	495.18 ppb	20:15:20
1	B 249.677†	16725.3	16376.7	492.75 ug/L	492.75 ppb	20:15:00
1	Ba 233.527†	31316.3	31150.8	503.32 ug/L	503.32 ppb	20:15:00
1	Be 313.107†	963156.9	960433.6	501.48 ug/L	501.48 ppb	20:14:54
1	Cd 226.502†	35087.9	34980.6	503.17 ug/L	503.17 ppb	20:15:00
1	Co 228.616†	17172.6	17100.3	505.44 ug/L	505.44 ppb	20:15:00
1	Cr 267.716†	30996.5	30852.8	502.34 ug/L	502.34 ppb	20:15:00
1	Cu 324.752†	93180.6	89403.1	496.32 ug/L	496.32 ppb	20:15:00
1	Mn 257.610†	222272.0	220822.7	498.14 ug/L	498.14 ppb	20:15:00
1	Mo 202.031†	11576.1	11489.0	494.84 ug/L	494.84 ppb	20:15:20
1	Ni 231.604†	16314.2	16060.3	505.35 ug/L	505.35 ppb	20:15:00
1	P 214.914†	2764.4	2920.3	2447.1 ug/L	2447.1 ppb	20:15:20
1	Pb 220.353†	3951.3	3856.8	494.71 ug/L	494.71 ppb	20:15:20
1	S 181.975 Axial†	1015.8	973.4	982.75 ug/L	982.75 ppb	20:15:20
1	Sb 206.836†	1253.2	1221.7	492.07 ug/L	492.07 ppb	20:15:20
1	Se 196.026†	1111.9	1112.0	506.62 ug/L	506.62 ppb	20:15:20
1	Si 251.611†	47772.7	47080.2	2486.4 ug/L	2486.4 ppb	20:15:00
1	Sn 189.927†	3809.5	3787.3	490.02 ug/L	490.02 ppb	20:15:20
1	Ti 334.940†	282178.3	279952.9	492.28 ug/L	492.28 ppb	20:15:00
1	Tl 190.801†	1074.1	1103.6	502.22 ug/L	502.22 ppb	20:15:20
1	U 409.014†	10686.1	10502.7	513.17 ug/L	513.17 ppb	20:15:00
1	V 292.402†	55437.7	55387.1	485.02 ug/L	485.02 ppb	20:15:00
1	Zn 213.857†	41641.8	40939.7	499.79 ug/L	499.79 ppb	20:15:00
1	SiO2†	47223.9	46545.3	5256.5 ug/L	5256.5 ppb	20:16:30
2	Sc Radial	35736.6	35736.6	101 %		20:14:00
2	Y RADIAL	24685.4	24685.4	100.5 %		20:14:00
2	Al 396.153Radial†	10874.7	10772.6	4935.5 ug/L	4935.5 ppb	20:14:00
2	Ca 317.933Radial†	7503.8	7329.9	5020.7 ug/L	5020.7 ppb	20:14:00
2	Fe 238.204 Radial†	503.2	454.4	5029.0 ug/L	5029.0 ppb	20:14:20
2	K 766.490 Radial†	30594.4	29166.2	5048.6 ug/L	5048.6 ppb	20:14:00
2	Mg 279.077 IEC†	322.1	314.7	5040.6 ug/L	5040.6 ppb	20:14:20
2	Na 589.592 Radial†	133313.4	131379.0	10022 ug/L	10022 ppb	20:14:00
2	Sr 421.552†	216115.2	212876.0	498.82 ug/L	498.82 ppb	20:14:00
2	Sc 361.383	966553.9	966553.9	99.827 %		20:15:26
2	Y 371.029	663179.4	663179.4	98.530 %		20:15:26
2	Ag 328.068†	70184.4	70235.9	505.27 ug/L	505.27 ppb	20:15:32
2	As 188.979†	1014.9	1035.1	495.78 ug/L	495.78 ppb	20:15:52
2	B 249.677†	16552.6	16330.5	491.34 ug/L	491.34 ppb	20:15:32
2	Ba 233.527†	30845.0	30915.9	499.53 ug/L	499.53 ppb	20:15:32
2	Be 313.107†	955764.7	960325.9	501.43 ug/L	501.43 ppb	20:15:26
2	Cd 226.502†	34589.6	34747.2	499.81 ug/L	499.81 ppb	20:15:32
2	Co 228.616†	16981.1	17038.6	503.62 ug/L	503.62 ppb	20:15:32
2	Cr 267.716†	30652.8	30743.3	500.56 ug/L	500.56 ppb	20:15:32
2	Cu 324.752†	92749.8	89677.5	497.85 ug/L	497.85 ppb	20:15:32
2	Mn 257.610†	220183.2	220414.3	497.22 ug/L	497.22 ppb	20:15:32
2	Mo 202.031†	11532.8	11533.3	496.75 ug/L	496.75 ppb	20:15:52
2	Ni 231.604†	16061.9	15931.2	501.28 ug/L	501.28 ppb	20:15:32

2	P 214.914†	2767.2	2944.0	2467.0 ug/L	2467.0 ppb	20:15:52
2	Pb 220.353†	3942.2	3877.6	497.38 ug/L	497.38 ppb	20:15:52
2	S 181.975 Axial†	1011.2	976.4	985.83 ug/L	985.83 ppb	20:15:52
2	Sb 206.836†	1265.0	1243.0	500.62 ug/L	500.62 ppb	20:15:52
2	Se 196.026†	1116.2	1124.7	512.30 ug/L	512.30 ppb	20:15:52
2	Si 251.611†	47475.9	47144.8	2489.8 ug/L	2489.8 ppb	20:15:32
2	Sn 189.927†	3797.3	3804.0	492.17 ug/L	492.17 ppb	20:15:52
2	Ti 334.940†	279822.1	279730.5	491.88 ug/L	491.88 ppb	20:15:32
2	Tl 190.801†	1061.7	1099.2	500.27 ug/L	500.27 ppb	20:15:52
2	U 409.014†	10584.0	10481.3	512.13 ug/L	512.13 ppb	20:15:32
2	V 292.402†	54918.8	55287.4	484.06 ug/L	484.06 ppb	20:15:32
2	Zn 213.857†	41220.7	40833.3	498.48 ug/L	498.48 ppb	20:15:32
2	SiO2†	47316.6	46996.0	5307.4 ug/L	5307.4 ppb	20:16:35
3	Sc Radial	35437.5	35437.5	101 %		20:14:26
3	Y RADIAL	24487.3	24487.3	99.73 %		20:14:26
3	Al 396.153Radial†	10723.0	10712.2	4907.6 ug/L	4907.6 ppb	20:14:26
3	Ca 317.933Radial†	7487.2	7376.0	5052.2 ug/L	5052.2 ppb	20:14:26
3	Fe 238.204 Radial†	500.4	455.8	5044.0 ug/L	5044.0 ppb	20:14:46
3	K 766.490 Radial†	30322.2	29150.0	5045.8 ug/L	5045.8 ppb	20:14:26
3	Mg 279.077 IEC†	325.2	320.5	5132.4 ug/L	5132.4 ppb	20:14:46
3	Na 589.592 Radial†	131943.9	131126.2	10002 ug/L	10002 ppb	20:14:26
3	Sr 421.552†	213912.4	212483.4	497.90 ug/L	497.90 ppb	20:14:26
3	Sc 361.383	960577.8	960577.8	99.210 %		20:15:58
3	Y 371.029	660724.4	660724.4	98.165 %		20:15:58
3	Ag 328.068†	69901.2	70387.8	506.36 ug/L	506.36 ppb	20:16:04
3	As 188.979†	1011.4	1037.9	497.12 ug/L	497.12 ppb	20:16:24
3	B 249.677†	16447.4	16327.6	491.23 ug/L	491.23 ppb	20:16:04
3	Ba 233.527†	30802.9	31065.7	501.95 ug/L	501.95 ppb	20:16:04
3	Be 313.107†	955196.8	965710.0	504.23 ug/L	504.23 ppb	20:15:58
3	Cd 226.502†	34565.7	34938.8	502.57 ug/L	502.57 ppb	20:16:04
3	Co 228.616†	16973.8	17137.1	506.54 ug/L	506.54 ppb	20:16:04
3	Cr 267.716†	30535.4	30816.0	501.74 ug/L	501.74 ppb	20:16:04
3	Cu 324.752†	92314.0	89816.3	498.62 ug/L	498.62 ppb	20:16:04
3	Mn 257.610†	219246.8	220842.8	498.19 ug/L	498.19 ppb	20:16:04
3	Mo 202.031†	11525.2	11597.6	499.52 ug/L	499.52 ppb	20:16:24
3	Ni 231.604†	16070.7	16040.2	504.71 ug/L	504.71 ppb	20:16:04
3	P 214.914†	2745.7	2939.6	2463.2 ug/L	2463.2 ppb	20:16:24
3	Pb 220.353†	3923.0	3882.9	498.06 ug/L	498.06 ppb	20:16:24
3	S 181.975 Axial†	1006.6	978.1	987.49 ug/L	987.49 ppb	20:16:24
3	Sb 206.836†	1257.7	1243.5	500.81 ug/L	500.81 ppb	20:16:24
3	Se 196.026†	1101.8	1117.1	508.94 ug/L	508.94 ppb	20:16:24
3	Si 251.611†	47221.4	47184.1	2491.8 ug/L	2491.8 ppb	20:16:04
3	Sn 189.927†	3803.3	3833.7	496.02 ug/L	496.02 ppb	20:16:24
3	Ti 334.940†	278744.7	280388.5	493.04 ug/L	493.04 ppb	20:16:04
3	Tl 190.801†	1066.7	1110.9	505.54 ug/L	505.54 ppb	20:16:24
3	U 409.014†	10524.8	10487.6	512.42 ug/L	512.42 ppb	20:16:04
3	V 292.402†	54726.4	55435.7	485.31 ug/L	485.31 ppb	20:16:04
3	Zn 213.857†	41033.3	40901.3	499.30 ug/L	499.30 ppb	20:16:04
3	SiO2†	47020.4	46992.3	5307.0 ug/L	5307.0 ppb	20:16:41

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	967017.3	99.875 %	0.6903			0.69%
Sc Radial	35572.9	101 %	0.4			0.43%
Y 371.029	664279.7	98.693 %	0.6262			0.63%
Y RADIAL	24585.8	100.1 %	0.40			0.40%
Ag 328.068†	70260.5	505.45 ug/L	0.841	505.45 ppb	0.841	0.17%
QC value within limits for Ag 328.068 Recovery = 101.09%						
Al 396.153Radial†	10762.0	4930.6 ug/L	21.04	4930.6 ppb	21.04	0.43%
QC value within limits for Al 396.153Radial Recovery = 98.61%						
As 188.979†	1035.6	496.03 ug/L	0.990	496.03 ppb	0.990	0.20%
QC value within limits for As 188.979 Recovery = 99.21%						
B 249.677†	16344.9	491.78 ug/L	0.846	491.78 ppb	0.846	0.17%
QC value within limits for B 249.677 Recovery = 98.36%						
Ba 233.527†	31044.1	501.60 ug/L	1.919	501.60 ppb	1.919	0.38%
QC value within limits for Ba 233.527 Recovery = 100.32%						
Be 313.107†	962156.5	502.38 ug/L	1.604	502.38 ppb	1.604	0.32%
QC value within limits for Be 313.107 Recovery = 100.48%						
Ca 317.933Radial†	7369.5	5047.8 ug/L	25.16	5047.8 ppb	25.16	0.50%

	QC value within limits for Ca 317.933Radial	Recovery = 100.96%				
Cd 226.502†	34888.9	501.85 ug/L	1.791	501.85 ppb	1.791	0.36%
	QC value within limits for Cd 226.502	Recovery = 100.37%				
Co 228.616†	17092.0	505.20 ug/L	1.472	505.20 ppb	1.472	0.29%
	QC value within limits for Co 228.616	Recovery = 101.04%				
Cr 267.716†	30804.0	501.55 ug/L	0.907	501.55 ppb	0.907	0.18%
	QC value within limits for Cr 267.716	Recovery = 100.31%				
Cu 324.752†	89632.3	497.60 ug/L	1.168	497.60 ppb	1.168	0.23%
	QC value within limits for Cu 324.752	Recovery = 99.52%				
Fe 238.204 Radial†	454.5	5029.4 ug/L	14.37	5029.4 ppb	14.37	0.29%
	QC value within limits for Fe 238.204 Radial	Recovery = 100.59%				
K 766.490 Radial†	29177.2	5050.5 ug/L	5.88	5050.5 ppb	5.88	0.12%
	QC value within limits for K 766.490 Radial	Recovery = 101.01%				
Mg 279.077 IEC†	318.1	5094.4 ug/L	47.93	5094.4 ppb	47.93	0.94%
	QC value within limits for Mg 279.077 IEC	Recovery = 101.89%				
Mn 257.610†	220693.3	497.85 ug/L	0.544	497.85 ppb	0.544	0.11%
	QC value within limits for Mn 257.610	Recovery = 99.57%				
Mo 202.031†	11540.0	497.04 ug/L	2.350	497.04 ppb	2.350	0.47%
	QC value within limits for Mo 202.031	Recovery = 99.41%				
Na 589.592 Radial†	131398.6	10023 ug/L	21.6	10023 ppb	21.6	0.22%
	QC value within limits for Na 589.592 Radial	Recovery = 100.23%				
Ni 231.604†	16010.6	503.78 ug/L	2.187	503.78 ppb	2.187	0.43%
	QC value within limits for Ni 231.604	Recovery = 100.76%				
P 214.914†	2934.6	2459.1 ug/L	10.59	2459.1 ppb	10.59	0.43%
	QC value within limits for P 214.914	Recovery = 98.36%				
Pb 220.353†	3872.4	496.72 ug/L	1.770	496.72 ppb	1.770	0.36%
	QC value within limits for Pb 220.353	Recovery = 99.34%				
S 181.975 Axial†	976.0	985.36 ug/L	2.409	985.36 ppb	2.409	0.24%
	QC value within limits for S 181.975 Axial	Recovery = 98.54%				
Sb 206.836†	1236.0	497.83 ug/L	4.991	497.83 ppb	4.991	1.00%
	QC value within limits for Sb 206.836	Recovery = 99.57%				
Se 196.026†	1117.9	509.28 ug/L	2.855	509.28 ppb	2.855	0.56%
	QC value within limits for Se 196.026	Recovery = 101.86%				
Si 251.611†	47136.4	2489.3 ug/L	2.73	2489.3 ppb	2.73	0.11%
	QC value within limits for Si 251.611	Recovery = 99.57%				
Sn 189.927†	3808.3	492.74 ug/L	3.038	492.74 ppb	3.038	0.62%
	QC value within limits for Sn 189.927	Recovery = 98.55%				
Sr 421.552†	212883.0	498.83 ug/L	0.944	498.83 ppb	0.944	0.19%
	QC value within limits for Sr 421.552	Recovery = 99.77%				
Ti 334.940†	280024.0	492.40 ug/L	0.590	492.40 ppb	0.590	0.12%
	QC value within limits for Ti 334.940	Recovery = 98.48%				
Tl 190.801†	1104.6	502.68 ug/L	2.666	502.68 ppb	2.666	0.53%
	QC value within limits for Tl 190.801	Recovery = 100.54%				
U 409.014†	10490.5	512.57 ug/L	0.537	512.57 ppb	0.537	0.10%
	QC value within limits for U 409.014	Recovery = 102.51%				
V 292.402†	55370.1	484.80 ug/L	0.656	484.80 ppb	0.656	0.14%
	QC value within limits for V 292.402	Recovery = 96.96%				
Zn 213.857†	40891.4	499.19 ug/L	0.661	499.19 ppb	0.661	0.13%
	QC value within limits for Zn 213.857	Recovery = 99.84%				
SiO2†	46844.6	5290.3 ug/L	29.27	5290.3 ppb	29.27	0.55%
	QC value within limits for SiO2	Recovery = 98.93%				
All analyte(s) passed QC.						

Sequence No.: 12

Autosampler Location: 8

Sample ID: CCB

Date Collected: 4/23/2007 20:18:51

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35815.6	35815.6	102 %		20:20:36
1	Y RADIAL	24812.6	24812.6	101.0 %		20:20:36
1	Al 396.153Radial†	-76.3	-32.0	-14.733 ug/L	-14.733 ppb	20:20:36
1	Ca 317.933Radial†	73.1	-1.6	-1.1169 ug/L	-1.1169 ppb	20:20:56
1	Fe 238.204 Radial†	40.8	-1.9	-21.280 ug/L	-21.280 ppb	20:20:56
1	K 766.490 Radial†	1066.8	30.6	5.3006 ug/L	5.3006 ppb	20:20:36
1	Mg 279.077 IEC†	0.6	-2.5	-40.204 ug/L	-40.204 ppb	20:20:56
1	Na 589.592 Radial†	408.9	248.7	18.967 ug/L	18.967 ppb	20:20:36
1	Sr 421.552†	321.3	-36.4	-0.0854 ug/L	-0.0854 ppb	20:20:36
1	Sc 361.383	982110.2	982110.2	101.43 %		20:21:54
1	Y 371.029	681544.3	681544.3	101.26 %		20:21:54
1	Ag 328.068†	35.5	-34.8	-0.2538 ug/L	-0.2538 ppb	20:21:59
1	As 188.979†	-17.6	1.0	0.4842 ug/L	0.4842 ppb	20:22:20
1	B 249.677†	417.5	160.9	4.9060 ug/L	4.9060 ppb	20:22:20
1	Ba 233.527†	-16.6	1.3	0.0210 ug/L	0.0210 ppb	20:22:20
1	Be 313.107†	-2947.1	3.6	0.0023 ug/L	0.0023 ppb	20:21:59
1	Cd 226.502†	-95.5	3.7	0.0550 ug/L	0.0550 ppb	20:22:20
1	Co 228.616†	-34.0	-5.5	-0.1615 ug/L	-0.1615 ppb	20:22:20
1	Cr 267.716†	-28.1	9.8	0.1599 ug/L	0.1599 ppb	20:22:20
1	Cu 324.752†	3225.6	-52.6	-0.2939 ug/L	-0.2939 ppb	20:21:59
1	Mn 257.610†	162.2	10.4	0.0223 ug/L	0.0223 ppb	20:22:20
1	Mo 202.031†	21.6	1.9	0.0809 ug/L	0.0809 ppb	20:22:20
1	Ni 231.604†	156.8	-3.9	-0.1232 ug/L	-0.1232 ppb	20:22:20
1	P 214.914†	-163.2	11.1	9.3914 ug/L	9.3914 ppb	20:22:20
1	Pb 220.353†	81.9	9.4	1.2009 ug/L	1.2009 ppb	20:22:20
1	S 181.975 Axial†	38.9	1.8	1.8690 ug/L	1.8690 ppb	20:22:20
1	Sb 206.836†	23.5	-1.0	-0.4104 ug/L	-0.4104 ppb	20:22:20
1	Se 196.026†	-9.6	-2.9	-1.3266 ug/L	-1.3266 ppb	20:22:20
1	Si 251.611†	444.9	25.4	1.3494 ug/L	1.3494 ppb	20:22:20
1	Sn 189.927†	6.2	6.2	0.8049 ug/L	0.8049 ppb	20:22:20
1	Ti 334.940†	667.7	83.0	0.1461 ug/L	0.1461 ppb	20:21:59
1	Tl 190.801†	-35.4	0.8	0.3710 ug/L	0.3710 ppb	20:22:20
1	U 409.014†	110.7	-11.8	-0.5788 ug/L	-0.5788 ppb	20:21:59
1	V 292.402†	-272.2	5.3	0.0463 ug/L	0.0463 ppb	20:21:59
1	Zn 213.857†	480.1	14.7	0.1845 ug/L	0.1845 ppb	20:22:20
1	SiO2†	518.3	108.5	12.256 ug/L	12.256 ppb	20:23:42
2	Sc Radial	35525.3	35525.3	101 %		20:21:01
2	Y RADIAL	24716.9	24716.9	100.7 %		20:21:01
2	Al 396.153Radial†	-64.1	-20.5	-9.4346 ug/L	-9.4346 ppb	20:21:01
2	Ca 317.933Radial†	69.5	-4.6	-3.1586 ug/L	-3.1586 ppb	20:21:21
2	Fe 238.204 Radial†	39.4	-3.0	-32.591 ug/L	-32.591 ppb	20:21:21
2	K 766.490 Radial†	1005.0	-22.2	-3.8384 ug/L	-3.8384 ppb	20:21:01
2	Mg 279.077 IEC†	1.5	-1.6	-25.347 ug/L	-25.347 ppb	20:21:21
2	Na 589.592 Radial†	276.5	120.6	9.2159 ug/L	9.2159 ppb	20:21:01
2	Sr 421.552†	334.7	-20.6	-0.0482 ug/L	-0.0482 ppb	20:21:01
2	Sc 361.383	965232.9	965232.9	99.691 %		20:22:25
2	Y 371.029	669294.7	669294.7	99.438 %		20:22:25
2	Ag 328.068†	42.2	-27.5	-0.2057 ug/L	-0.2057 ppb	20:22:30
2	As 188.979†	-19.5	-1.2	-0.5782 ug/L	-0.5782 ppb	20:22:51
2	B 249.677†	424.0	174.5	5.3277 ug/L	5.3277 ppb	20:22:51
2	Ba 233.527†	-23.1	-5.5	-0.0880 ug/L	-0.0880 ppb	20:22:51
2	Be 313.107†	-2936.9	-37.0	-0.0191 ug/L	-0.0191 ppb	20:22:30
2	Cd 226.502†	-93.2	4.4	0.0676 ug/L	0.0676 ppb	20:22:51
2	Co 228.616†	-26.8	1.2	0.0341 ug/L	0.0341 ppb	20:22:51
2	Cr 267.716†	-25.6	11.8	0.1931 ug/L	0.1931 ppb	20:22:51
2	Cu 324.752†	3212.0	-10.6	-0.0617 ug/L	-0.0617 ppb	20:22:30
2	Mn 257.610†	164.8	15.8	0.0319 ug/L	0.0319 ppb	20:22:51
2	Mo 202.031†	15.8	-3.5	-0.1531 ug/L	-0.1531 ppb	20:22:51
2	Ni 231.604†	167.8	9.9	0.3113 ug/L	0.3113 ppb	20:22:51

2	P 214.914†	-165.5	6.0	5.1245 ug/L	5.1245 ppb	20:22:51
2	Pb 220.353†	96.2	25.1	3.2135 ug/L	3.2135 ppb	20:22:51
2	S 181.975 Axial†	34.2	-2.2	-2.2530 ug/L	-2.2530 ppb	20:22:51
2	Sb 206.836†	24.9	0.8	0.3222 ug/L	0.3222 ppb	20:22:51
2	Se 196.026†	-9.4	-2.9	-1.3442 ug/L	-1.3442 ppb	20:22:51
2	Si 251.611†	444.6	32.9	1.7491 ug/L	1.7491 ppb	20:22:51
2	Sn 189.927†	1.4	1.6	0.2022 ug/L	0.2022 ppb	20:22:51
2	Ti 334.940†	606.9	33.5	0.0567 ug/L	0.0567 ppb	20:22:30
2	Tl 190.801†	-32.8	2.8	1.2744 ug/L	1.2744 ppb	20:22:51
2	U 409.014†	185.8	65.4	3.2375 ug/L	3.2375 ppb	20:22:30
2	V 292.402†	-264.2	8.6	0.0905 ug/L	0.0905 ppb	20:22:30
2	Zn 213.857†	483.0	25.9	0.3231 ug/L	0.3231 ppb	20:22:51
2	SiO2†	460.7	59.8	6.7479 ug/L	6.7479 ppb	20:24:03
3	Sc Radial	35285.5	35285.5	100 %		20:21:26
3	Y RADIAL	24550.5	24550.5	99.98 %		20:21:26
3	Al 396.153Radial†	-56.2	-13.1	-6.0442 ug/L	-6.0442 ppb	20:21:26
3	Ca 317.933Radial†	71.5	-2.1	-1.4503 ug/L	-1.4503 ppb	20:21:47
3	Fe 238.204 Radial†	41.4	-0.7	-7.7260 ug/L	-7.7260 ppb	20:21:47
3	K 766.490 Radial†	988.7	-31.6	-5.4693 ug/L	-5.4693 ppb	20:21:26
3	Mg 279.077 IEC†	-1.1	-4.2	-66.351 ug/L	-66.351 ppb	20:21:47
3	Na 589.592 Radial†	298.2	144.1	10.978 ug/L	10.978 ppb	20:21:26
3	Sr 421.552†	324.6	-28.4	-0.0666 ug/L	-0.0666 ppb	20:21:26
3	Sc 361.383	959702.6	959702.6	99.120 %		20:22:56
3	Y 371.029	666211.8	666211.8	98.980 %		20:22:56
3	Ag 328.068†	55.6	-13.7	-0.1007 ug/L	-0.1007 ppb	20:23:01
3	As 188.979†	-18.0	0.2	0.1170 ug/L	0.1170 ppb	20:23:21
3	B 249.677†	435.9	189.0	5.7500 ug/L	5.7500 ppb	20:23:21
3	Ba 233.527†	26.7	44.6	0.7185 ug/L	0.7185 ppb	20:23:21
3	Be 313.107†	-2908.7	-25.6	-0.0131 ug/L	-0.0131 ppb	20:23:01
3	Cd 226.502†	-48.7	48.8	0.7017 ug/L	0.7017 ppb	20:23:21
3	Co 228.616†	-9.5	18.5	0.5490 ug/L	0.5490 ppb	20:23:21
3	Cr 267.716†	8.6	46.2	0.7492 ug/L	0.7492 ppb	20:23:21
3	Cu 324.752†	3234.3	30.4	0.1678 ug/L	0.1678 ppb	20:23:01
3	Mn 257.610†	518.8	374.0	0.8443 ug/L	0.8443 ppb	20:23:21
3	Mo 202.031†	41.5	22.5	0.9688 ug/L	0.9688 ppb	20:23:21
3	Ni 231.604†	181.2	24.4	0.7670 ug/L	0.7670 ppb	20:23:21
3	P 214.914†	-170.5	-0.0	-0.0012 ug/L	-0.0012 ppb	20:23:21
3	Pb 220.353†	81.0	10.3	1.3288 ug/L	1.3288 ppb	20:23:21
3	S 181.975 Axial†	38.8	2.6	2.6492 ug/L	2.6492 ppb	20:23:21
3	Sb 206.836†	33.3	9.4	3.7721 ug/L	3.7721 ppb	20:23:21
3	Se 196.026†	-7.1	-0.6	-0.2788 ug/L	-0.2788 ppb	20:23:21
3	Si 251.611†	792.6	386.5	20.497 ug/L	20.497 ppb	20:23:21
3	Sn 189.927†	6.4	6.6	0.8490 ug/L	0.8490 ppb	20:23:21
3	Ti 334.940†	611.3	41.4	0.0735 ug/L	0.0735 ppb	20:23:01
3	Tl 190.801†	-34.9	0.5	0.2155 ug/L	0.2155 ppb	20:23:21
3	U 409.014†	79.3	-40.9	-2.0244 ug/L	-2.0244 ppb	20:23:01
3	V 292.402†	-288.7	-17.6	-0.1911 ug/L	-0.1911 ppb	20:23:01
3	Zn 213.857†	548.9	95.2	1.1704 ug/L	1.1704 ppb	20:23:21
3	SiO2†	467.0	68.7	7.7584 ug/L	7.7584 ppb	20:24:24

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	969015.2	100.08 %	1.206			1.20%
Sc Radial	35542.1	101 %	0.8			0.75%
Y 371.029	672350.3	99.892 %	1.2049			1.21%
Y RADIAL	24693.3	100.6 %	0.54			0.54%
Ag 328.068†	-25.3	-0.1867 ug/L	0.07830	-0.1867 ppb	0.07830	41.94%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-21.9	-10.070 ug/L	4.3790	-10.070 ppb	4.3790	43.48%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.0	0.0077 ug/L	0.53957	0.0077 ppb	0.53957	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	174.8	5.3279 ug/L	0.42198	5.3279 ppb	0.42198	7.92%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	13.4	0.2172 ug/L	0.43756	0.2172 ppb	0.43756	201.46%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-19.7	-0.0100 ug/L	0.01103	-0.0100 ppb	0.01103	110.42%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.8	-1.9086 ug/L	1.09527	-1.9086 ppb	1.09527	57.39%

	QC value within limits for Ca 317.933Radial	Recovery = Not calculated				
Cd 226.502†	19.0	0.2748 ug/L	0.36976	0.2748 ppb	0.36976	134.58%
	QC value within limits for Cd 226.502	Recovery = Not calculated				
Co 228.616†	4.7	0.1405 ug/L	0.36698	0.1405 ppb	0.36698	261.14%
	QC value within limits for Co 228.616	Recovery = Not calculated				
Cr 267.716†	22.6	0.3674 ug/L	0.33106	0.3674 ppb	0.33106	90.11%
	QC value within limits for Cr 267.716	Recovery = Not calculated				
Cu 324.752†	-11.0	-0.0626 ug/L	0.23082	-0.0626 ppb	0.23082	368.70%
	QC value within limits for Cu 324.752	Recovery = Not calculated				
Fe 238.204 Radial†	-1.9	-20.532 ug/L	12.4493	-20.532 ppb	12.4493	60.63%
	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated				
K 766.490 Radial†	-7.7	-1.3357 ug/L	5.80474	-1.3357 ppb	5.80474	434.58%
	QC value within limits for K 766.490 Radial	Recovery = Not calculated				
Mg 279.077 IEC†	-2.8	-43.967 ug/L	20.7597	-43.967 ppb	20.7597	47.22%
	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated				
Mn 257.610†	133.4	0.2995 ug/L	0.47184	0.2995 ppb	0.47184	157.54%
	QC value within limits for Mn 257.610	Recovery = Not calculated				
Mo 202.031†	7.0	0.2989 ug/L	0.59189	0.2989 ppb	0.59189	198.05%
	QC value within limits for Mo 202.031	Recovery = Not calculated				
Na 589.592 Radial†	171.1	13.053 ug/L	5.1965	13.053 ppb	5.1965	39.81%
	QC value within limits for Na 589.592 Radial	Recovery = Not calculated				
Ni 231.604†	10.1	0.3184 ug/L	0.44511	0.3184 ppb	0.44511	139.81%
	QC value within limits for Ni 231.604	Recovery = Not calculated				
P 214.914†	5.7	4.8382 ug/L	4.70285	4.8382 ppb	4.70285	97.20%
	QC value within limits for P 214.914	Recovery = Not calculated				
Pb 220.353†	14.9	1.9144 ug/L	1.12687	1.9144 ppb	1.12687	58.86%
	QC value within limits for Pb 220.353	Recovery = Not calculated				
S 181.975 Axial†	0.7	0.7551 ug/L	2.63413	0.7551 ppb	2.63413	348.86%
	QC value within limits for S 181.975 Axial	Recovery = Not calculated				
Sb 206.836†	3.1	1.2280 ug/L	2.23351	1.2280 ppb	2.23351	181.89%
	QC value within limits for Sb 206.836	Recovery = Not calculated				
Se 196.026†	-2.1	-0.9832 ug/L	0.61009	-0.9832 ppb	0.61009	62.05%
	QC value within limits for Se 196.026	Recovery = Not calculated				
Si 251.611†	148.3	7.8653 ug/L	10.94153	7.8653 ppb	10.94153	139.11%
	QC value within limits for Si 251.611	Recovery = Not calculated				
Sn 189.927†	4.8	0.6187 ug/L	0.36139	0.6187 ppb	0.36139	58.41%
	QC value within limits for Sn 189.927	Recovery = Not calculated				
Sr 421.552†	-28.5	-0.0667 ug/L	0.01858	-0.0667 ppb	0.01858	27.86%
	QC value within limits for Sr 421.552	Recovery = Not calculated				
Ti 334.940†	52.7	0.0921 ug/L	0.04753	0.0921 ppb	0.04753	51.60%
	QC value within limits for Ti 334.940	Recovery = Not calculated				
Tl 190.801†	1.4	0.6203 ug/L	0.57177	0.6203 ppb	0.57177	92.18%
	QC value within limits for Tl 190.801	Recovery = Not calculated				
U 409.014†	4.2	0.2114 ug/L	2.71852	0.2114 ppb	2.71852	>999.9%
	QC value within limits for U 409.014	Recovery = Not calculated				
V 292.402†	-1.2	-0.0181 ug/L	0.15143	-0.0181 ppb	0.15143	837.79%
	QC value within limits for V 292.402	Recovery = Not calculated				
Zn 213.857†	45.3	0.5593 ug/L	0.53372	0.5593 ppb	0.53372	95.42%
	QC value within limits for Zn 213.857	Recovery = Not calculated				
SiO2†	79.0	8.9207 ug/L	2.93206	8.9207 ppb	2.93206	32.87%
	QC value within limits for SiO2	Recovery = Not calculated				
All analyte(s) passed QC.						

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Analysis Begun

Start Time: 4/23/2007 21:03:23

Plasma On Time: 4/23/2007 08:46:28

Logged In Analyst: optimal

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1030502Autosampler Model: AS-93plus

Sample Information File: C:\pe\optimal\Sample Information\042307.SIF

Batch ID:

Results Data Set: 042307

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

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 4/23/2007 21:03:23

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35125.5	35125.5	99.6 %		21:05:07
1	Y RADIAL	24276.7	24276.7	98.87 %		21:05:07
1	Al 396.153Radial†	10876.6	10961.1	5022.1 ug/L	5022.1 ppb	21:05:07
1	Ca 317.933Radial†	7467.2	7422.0	5083.8 ug/L	5083.8 ppb	21:05:07
1	Fe 238.204 Radial†	493.7	453.5	5018.9 ug/L	5018.9 ppb	21:05:27
1	K 766.490 Radial†	35636.0	34752.1	6015.5 ug/L	6015.5 ppb	21:05:07
1	Mg 279.077 IEC†	317.7	315.8	5057.7 ug/L	5057.7 ppb	21:05:27
1	Na 589.592 Radial†	134279.8	134637.2	10270 ug/L	10270 ppb	21:05:07
1	Sr 421.552†	214680.9	215145.6	504.14 ug/L	504.14 ppb	21:05:07
1	Sc 361.383	959859.7	959859.7	99.136 %		21:06:27
1	Y 371.029	658660.4	658660.4	97.858 %		21:06:27
1	Ag 328.068†	69859.1	70398.1	506.41 ug/L	506.41 ppb	21:06:33
1	As 188.979†	1015.3	1042.5	499.34 ug/L	499.34 ppb	21:06:53
1	B 249.677†	17935.0	17840.5	537.26 ug/L	537.26 ppb	21:06:33
1	Ba 233.527†	30647.9	30932.6	499.80 ug/L	499.80 ppb	21:06:33
1	Be 313.107†	955444.5	966680.2	504.74 ug/L	504.74 ppb	21:06:27
1	Cd 226.502†	34260.5	34657.0	498.52 ug/L	498.52 ppb	21:06:33
1	Co 228.616†	16912.7	17088.2	505.09 ug/L	505.09 ppb	21:06:33
1	Cr 267.716†	30442.0	30744.9	500.58 ug/L	500.58 ppb	21:06:33
1	Cu 324.752†	92810.0	90386.2	501.78 ug/L	501.78 ppb	21:06:33
1	Mn 257.610†	218481.9	220236.4	496.82 ug/L	496.82 ppb	21:06:33
1	Mo 202.031†	11502.0	11582.9	498.89 ug/L	498.89 ppb	21:06:53
1	Ni 231.604†	16012.9	15994.0	503.26 ug/L	503.26 ppb	21:06:33
1	P 214.914†	2844.6	3041.4	2549.0 ug/L	2549.0 ppb	21:06:53
1	Pb 220.353†	3939.7	3902.6	500.59 ug/L	500.59 ppb	21:06:53
1	S 181.975 Axial†	1015.1	987.4	996.95 ug/L	996.95 ppb	21:06:53
1	Sb 206.836†	1266.5	1253.4	504.80 ug/L	504.80 ppb	21:06:53
1	Se 196.026†	1102.3	1118.5	509.53 ug/L	509.53 ppb	21:06:53
1	Si 251.611†	47155.5	47153.3	2490.2 ug/L	2490.2 ppb	21:06:33
1	Sn 189.927†	3783.6	3816.8	493.83 ug/L	493.83 ppb	21:06:53
1	Ti 334.940†	278590.2	280442.9	493.14 ug/L	493.14 ppb	21:06:33
1	Tl 190.801†	1065.3	1110.3	505.29 ug/L	505.29 ppb	21:06:53
1	U 409.014†	10615.9	10587.4	517.36 ug/L	517.36 ppb	21:06:33
1	V 292.402†	54501.8	55250.4	483.67 ug/L	483.67 ppb	21:06:33
1	Zn 213.857†	46154.9	46098.5	563.05 ug/L	563.05 ppb	21:06:33
1	SiO2†	47466.5	47477.7	5361.8 ug/L	5361.8 ppb	21:08:03
2	Sc Radial	35349.5	35349.5	100 %		21:05:33
2	Y RADIAL	24426.8	24426.8	99.48 %		21:05:33
2	Al 396.153Radial†	10803.3	10818.8	4956.6 ug/L	4956.6 ppb	21:05:33
2	Ca 317.933Radial†	7430.1	7337.5	5025.9 ug/L	5025.9 ppb	21:05:33
2	Fe 238.204 Radial†	491.1	447.8	4955.6 ug/L	4955.6 ppb	21:05:53
2	K 766.490 Radial†	35383.3	34273.4	5932.6 ug/L	5932.6 ppb	21:05:33
2	Mg 279.077 IEC†	318.9	315.0	5044.7 ug/L	5044.7 ppb	21:05:53
2	Na 589.592 Radial†	133532.4	133037.5	10148 ug/L	10148 ppb	21:05:33
2	Sr 421.552†	213151.4	212254.3	497.36 ug/L	497.36 ppb	21:05:33
2	Sc 361.383	960823.9	960823.9	99.236 %		21:06:59
2	Y 371.029	659954.6	659954.6	98.051 %		21:06:59

2	Ag 328.068†	70205.8	70676.8	508.40 ug/L	508.40 ppb	21:07:05
2	As 188.979†	1014.4	1040.6	498.40 ug/L	498.40 ppb	21:07:25
2	B 249.677†	18102.1	17990.8	541.86 ug/L	541.86 ppb	21:07:05
2	Ba 233.527†	30781.1	31035.8	501.47 ug/L	501.47 ppb	21:07:05
2	Be 313.107†	961408.9	971723.3	507.37 ug/L	507.37 ppb	21:06:59
2	Cd 226.502†	34408.0	34770.9	500.16 ug/L	500.16 ppb	21:07:05
2	Co 228.616†	16987.9	17146.9	506.82 ug/L	506.82 ppb	21:07:05
2	Cr 267.716†	30488.4	30760.8	500.84 ug/L	500.84 ppb	21:07:05
2	Cu 324.752†	93593.0	91081.3	505.63 ug/L	505.63 ppb	21:07:05
2	Mn 257.610†	219180.7	220719.6	497.90 ug/L	497.90 ppb	21:07:05
2	Mo 202.031†	11513.5	11582.8	498.88 ug/L	498.88 ppb	21:07:25
2	Ni 231.604†	16069.9	16035.2	504.55 ug/L	504.55 ppb	21:07:05
2	P 214.914†	2838.7	3032.5	2541.5 ug/L	2541.5 ppb	21:07:25
2	Pb 220.353†	3923.8	3882.6	498.02 ug/L	498.02 ppb	21:07:25
2	S 181.975 Axial†	1018.6	989.9	999.48 ug/L	999.48 ppb	21:07:25
2	Sb 206.836†	1271.8	1257.3	506.42 ug/L	506.42 ppb	21:07:25
2	Se 196.026†	1124.7	1140.0	518.95 ug/L	518.95 ppb	21:07:25
2	Si 251.611†	47461.3	47413.7	2504.0 ug/L	2504.0 ppb	21:07:05
2	Sn 189.927†	3765.2	3794.3	490.92 ug/L	490.92 ppb	21:07:25
2	Ti 334.940†	279933.4	281514.4	495.02 ug/L	495.02 ppb	21:07:05
2	Tl 190.801†	1066.9	1110.8	505.51 ug/L	505.51 ppb	21:07:25
2	U 409.014†	10576.8	10537.3	514.90 ug/L	514.90 ppb	21:07:05
2	V 292.402†	54776.8	55472.4	485.67 ug/L	485.67 ppb	21:07:05
2	Zn 213.857†	45973.1	45868.6	560.24 ug/L	560.24 ppb	21:07:05
2	SiO2†	47782.0	47747.6	5392.3 ug/L	5392.3 ppb	21:08:08
3	Sc Radial	34912.2	34912.2	99.0 %		21:05:59
3	Y RADIAL	24148.1	24148.1	98.34 %		21:05:59
3	Al 396.153Radial†	10751.0	10901.0	4994.3 ug/L	4994.3 ppb	21:05:59
3	Ca 317.933Radial†	7351.4	7350.9	5035.1 ug/L	5035.1 ppb	21:05:59
3	Fe 238.204 Radial†	488.4	451.2	4993.3 ug/L	4993.3 ppb	21:06:19
3	K 766.490 Radial†	35118.1	34447.6	5962.8 ug/L	5962.8 ppb	21:05:59
3	Mg 279.077 IEC†	315.2	315.3	5049.0 ug/L	5049.0 ppb	21:06:19
3	Na 589.592 Radial†	133149.4	134319.0	10246 ug/L	10246 ppb	21:05:59
3	Sr 421.552†	212820.9	214583.5	502.82 ug/L	502.82 ppb	21:05:59
3	Sc 361.383	960741.1	960741.1	99.227 %		21:07:31
3	Y 371.029	660847.8	660847.8	98.183 %		21:07:31
3	Ag 328.068†	70165.0	70641.8	508.15 ug/L	508.15 ppb	21:07:37
3	As 188.979†	1019.7	1046.0	500.98 ug/L	500.98 ppb	21:07:57
3	B 249.677†	17995.4	17884.9	538.62 ug/L	538.62 ppb	21:07:37
3	Ba 233.527†	30739.8	30996.9	500.84 ug/L	500.84 ppb	21:07:37
3	Be 313.107†	959060.8	969440.5	506.18 ug/L	506.18 ppb	21:07:31
3	Cd 226.502†	34280.0	34644.9	498.35 ug/L	498.35 ppb	21:07:37
3	Co 228.616†	16985.5	17145.8	506.80 ug/L	506.80 ppb	21:07:37
3	Cr 267.716†	30438.1	30712.8	500.07 ug/L	500.07 ppb	21:07:37
3	Cu 324.752†	93641.8	91138.7	505.95 ug/L	505.95 ppb	21:07:37
3	Mn 257.610†	218835.3	220390.4	497.16 ug/L	497.16 ppb	21:07:37
3	Mo 202.031†	11595.8	11666.7	502.50 ug/L	502.50 ppb	21:07:57
3	Ni 231.604†	16001.0	15967.2	502.41 ug/L	502.41 ppb	21:07:37
3	P 214.914†	2842.1	3036.3	2544.6 ug/L	2544.6 ppb	21:07:57
3	Pb 220.353†	3948.9	3908.2	501.31 ug/L	501.31 ppb	21:07:57
3	S 181.975 Axial†	1021.8	993.3	1002.8 ug/L	1002.8 ppb	21:07:57
3	Sb 206.836†	1281.7	1267.5	510.48 ug/L	510.48 ppb	21:07:57
3	Se 196.026†	1115.7	1131.0	515.04 ug/L	515.04 ppb	21:07:57
3	Si 251.611†	47317.1	47272.5	2496.4 ug/L	2496.4 ppb	21:07:37
3	Sn 189.927†	3796.8	3826.5	495.08 ug/L	495.08 ppb	21:07:57
3	Ti 334.940†	279592.9	281195.5	494.45 ug/L	494.45 ppb	21:07:37
3	Tl 190.801†	1069.1	1113.1	506.56 ug/L	506.56 ppb	21:07:57
3	U 409.014†	10700.6	10663.0	521.10 ug/L	521.10 ppb	21:07:37
3	V 292.402†	54660.2	55359.6	484.55 ug/L	484.55 ppb	21:07:37
3	Zn 213.857†	45896.2	45795.1	559.32 ug/L	559.32 ppb	21:07:37
3	SiO2†	47525.0	47492.8	5363.5 ug/L	5363.5 ppb	21:08:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	960474.9	99.200 %	0.0552			0.06%
Sc Radial	35129.1	99.6 %	0.62			0.62%
Y 371.029	659820.9	98.031 %	0.1634			0.17%
Y RADIAL	24283.8	98.90 %	0.568			0.57%
Ag 328.068†	70572.2	507.65 ug/L	1.081	507.65 ppb	1.081	0.21%

Al	396.153Radial†	10893.6	4991.0 ug/L	32.86	4991.0 ppb	32.86	0.66%
	QC value within limits for Al 396.153Radial			Recovery = 99.82%			
As	188.979†	1043.0	499.58 ug/L	1.305	499.58 ppb	1.305	0.26%
	QC value within limits for As 188.979			Recovery = 99.92%			
B	249.677†	17905.4	539.25 ug/L	2.364	539.25 ppb	2.364	0.44%
	QC value within limits for B 249.677			Recovery = 107.85%			
Ba	233.527†	30988.4	500.70 ug/L	0.843	500.70 ppb	0.843	0.17%
	QC value within limits for Ba 233.527			Recovery = 100.14%			
Be	313.107†	969281.3	506.10 ug/L	1.318	506.10 ppb	1.318	0.26%
	QC value within limits for Be 313.107			Recovery = 101.22%			
Ca	317.933Radial†	7370.1	5048.2 ug/L	31.10	5048.2 ppb	31.10	0.62%
	QC value within limits for Ca 317.933Radial			Recovery = 100.96%			
Cd	226.502†	34690.9	499.01 ug/L	1.002	499.01 ppb	1.002	0.20%
	QC value within limits for Cd 226.502			Recovery = 99.80%			
Co	228.616†	17127.0	506.24 ug/L	0.993	506.24 ppb	0.993	0.20%
	QC value within limits for Co 228.616			Recovery = 101.25%			
Cr	267.716†	30739.5	500.50 ug/L	0.397	500.50 ppb	0.397	0.08%
	QC value within limits for Cr 267.716			Recovery = 100.10%			
Cu	324.752†	90868.7	504.45 ug/L	2.322	504.45 ppb	2.322	0.46%
	QC value within limits for Cu 324.752			Recovery = 100.89%			
Fe	238.204 Radial†	450.8	4989.3 ug/L	31.82	4989.3 ppb	31.82	0.64%
	QC value within limits for Fe 238.204 Radial			Recovery = 99.79%			
K	766.490 Radial†	34491.0	5970.3 ug/L	41.94	5970.3 ppb	41.94	0.70%
	QC value greater than the upper limit for K 766.490 Radial			Recovery = 119.41%			
Mg	279.077 IEC†	315.3	5050.5 ug/L	6.58	5050.5 ppb	6.58	0.13%
	QC value within limits for Mg 279.077 IEC			Recovery = 101.01%			
Mn	257.610†	220448.8	497.29 ug/L	0.554	497.29 ppb	0.554	0.11%
	QC value within limits for Mn 257.610			Recovery = 99.46%			
Mo	202.031†	11610.8	500.09 ug/L	2.086	500.09 ppb	2.086	0.42%
	QC value within limits for Mo 202.031			Recovery = 100.02%			
Na	589.592 Radial†	133997.9	10221 ug/L	64.6	10221 ppb	64.6	0.63%
	QC value within limits for Na 589.592 Radial			Recovery = 102.21%			
Ni	231.604†	15998.8	503.41 ug/L	1.079	503.41 ppb	1.079	0.21%
	QC value within limits for Ni 231.604			Recovery = 100.68%			
P	214.914†	3036.7	2545.0 ug/L	3.76	2545.0 ppb	3.76	0.15%
	QC value within limits for P 214.914			Recovery = 101.80%			
Pb	220.353†	3897.8	499.97 ug/L	1.727	499.97 ppb	1.727	0.35%
	QC value within limits for Pb 220.353			Recovery = 99.99%			
S	181.975 Axial†	990.2	999.76 ug/L	2.955	999.76 ppb	2.955	0.30%
	QC value within limits for S 181.975 Axial			Recovery = 99.98%			
Sb	206.836†	1259.4	507.23 ug/L	2.929	507.23 ppb	2.929	0.58%
	QC value within limits for Sb 206.836			Recovery = 101.45%			
Se	196.026†	1129.8	514.51 ug/L	4.735	514.51 ppb	4.735	0.92%
	QC value within limits for Se 196.026			Recovery = 102.90%			
Si	251.611†	47279.8	2496.9 ug/L	6.93	2496.9 ppb	6.93	0.28%
	QC value within limits for Si 251.611			Recovery = 99.87%			
Sn	189.927†	3812.5	493.28 ug/L	2.135	493.28 ppb	2.135	0.43%
	QC value within limits for Sn 189.927			Recovery = 98.66%			
Sr	421.552†	213994.4	501.44 ug/L	3.593	501.44 ppb	3.593	0.72%
	QC value within limits for Sr 421.552			Recovery = 100.29%			
Ti	334.940†	281050.9	494.20 ug/L	0.964	494.20 ppb	0.964	0.20%
	QC value within limits for Ti 334.940			Recovery = 98.84%			
Tl	190.801†	1111.4	505.78 ug/L	0.680	505.78 ppb	0.680	0.13%
	QC value within limits for Tl 190.801			Recovery = 101.16%			
U	409.014†	10595.9	517.79 ug/L	3.120	517.79 ppb	3.120	0.60%
	QC value within limits for U 409.014			Recovery = 103.56%			
V	292.402†	55360.8	484.63 ug/L	1.004	484.63 ppb	1.004	0.21%
	QC value within limits for V 292.402			Recovery = 96.93%			
Zn	213.857†	45920.7	560.87 ug/L	1.944	560.87 ppb	1.944	0.35%
	QC value greater than the upper limit for Zn 213.857			Recovery = 112.17%			
SiO2†		47572.7	5372.5 ug/L	17.13	5372.5 ppb	17.13	0.32%
	QC value within limits for SiO2			Recovery = 100.47%			
QC Failed.	Continue with analysis.						

Sequence No.: 2
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 4/23/2007 21:10:24
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	34928.6	34928.6	99.1 %		21:12:08
1	Y RADIAL	24315.6	24315.6	99.03 %		21:12:08
1	Al 396.153Radial†	-26.5	16.4	7.5141 ug/L	7.5141 ppb	21:12:08
1	Ca 317.933Radial†	74.0	1.1	0.7413 ug/L	0.7413 ppb	21:12:28
1	Fe 238.204 Radial†	40.9	-0.8	-8.7294 ug/L	-8.7294 ppb	21:12:28
1	K 766.490 Radial†	4636.3	3660.6	633.60 ug/L	633.60 ppb	21:12:08
1	Mg 279.077 IEC†	1.7	-1.3	-20.798 ug/L	-20.798 ppb	21:12:28
1	Na 589.592 Radial†	1563.8	1424.8	108.66 ug/L	108.66 ppb	21:12:08
1	Sr 421.552†	376.8	27.6	0.0647 ug/L	0.0647 ppb	21:12:08
1	Sc 361.383	965100.0	965100.0	99.677 %		21:13:27
1	Y 371.029	668899.4	668899.4	99.379 %		21:13:27
1	Ag 328.068†	99.2	29.7	0.2090 ug/L	0.2090 ppb	21:13:32
1	As 188.979†	-16.4	2.0	0.9303 ug/L	0.9303 ppb	21:13:52
1	B 249.677†	1561.8	1316.1	40.027 ug/L	40.027 ppb	21:13:32
1	Ba 233.527†	-15.3	2.3	0.0379 ug/L	0.0379 ppb	21:13:52
1	Be 313.107†	-2921.4	-21.9	-0.0112 ug/L	-0.0112 ppb	21:13:32
1	Cd 226.502†	-97.7	-0.2	-0.0012 ug/L	-0.0012 ppb	21:13:52
1	Co 228.616†	-26.2	1.8	0.0542 ug/L	0.0542 ppb	21:13:52
1	Cr 267.716†	-40.8	-3.5	-0.0558 ug/L	-0.0558 ppb	21:13:52
1	Cu 324.752†	3284.4	62.4	0.3452 ug/L	0.3452 ppb	21:13:32
1	Mn 257.610†	187.6	38.7	0.0866 ug/L	0.0866 ppb	21:13:52
1	Mo 202.031†	32.8	13.5	0.5799 ug/L	0.5799 ppb	21:13:52
1	Ni 231.604†	157.0	-1.0	-0.0300 ug/L	-0.0300 ppb	21:13:52
1	P 214.914†	-114.7	57.0	47.948 ug/L	47.948 ppb	21:13:52
1	Pb 220.353†	82.8	11.7	1.5006 ug/L	1.5006 ppb	21:13:52
1	S 181.975 Axial†	41.3	5.0	5.0112 ug/L	5.0112 ppb	21:13:52
1	Sb 206.836†	34.0	9.9	3.9637 ug/L	3.9637 ppb	21:13:52
1	Se 196.026†	-10.8	-4.2	-1.9067 ug/L	-1.9067 ppb	21:13:52
1	Si 251.611†	445.2	33.5	1.7627 ug/L	1.7627 ppb	21:13:52
1	Sn 189.927†	5.1	5.3	0.6806 ug/L	0.6806 ppb	21:13:52
1	Ti 334.940†	623.7	50.5	0.0883 ug/L	0.0883 ppb	21:13:32
1	Tl 190.801†	-38.4	-2.9	-1.2941 ug/L	-1.2941 ppb	21:13:52
1	U 409.014†	137.5	17.0	0.8393 ug/L	0.8393 ppb	21:13:32
1	V 292.402†	-267.7	5.0	0.0300 ug/L	0.0300 ppb	21:13:32
1	Zn 213.857†	3428.1	2980.6	36.560 ug/L	36.560 ppb	21:13:32
1	SiO2†	456.2	55.3	6.2404 ug/L	6.2404 ppb	21:15:15
2	Sc Radial	35099.6	35099.6	99.5 %		21:12:34
2	Y RADIAL	24511.3	24511.3	99.82 %		21:12:34
2	Al 396.153Radial†	-36.4	6.6	3.0214 ug/L	3.0214 ppb	21:12:34
2	Ca 317.933Radial†	78.8	5.5	3.7848 ug/L	3.7848 ppb	21:12:54
2	Fe 238.204 Radial†	38.1	-3.8	-41.699 ug/L	-41.699 ppb	21:12:54
2	K 766.490 Radial†	4339.2	3339.3	577.99 ug/L	577.99 ppb	21:12:34
2	Mg 279.077 IEC†	1.1	-2.0	-32.126 ug/L	-32.126 ppb	21:12:54
2	Na 589.592 Radial†	1441.5	1294.2	98.694 ug/L	98.694 ppb	21:12:34
2	Sr 421.552†	339.9	-11.3	-0.0267 ug/L	-0.0267 ppb	21:12:34
2	Sc 361.383	953877.8	953877.8	98.518 %		21:13:58
2	Y 371.029	661632.6	661632.6	98.300 %		21:13:58
2	Ag 328.068†	132.4	64.5	0.4430 ug/L	0.4430 ppb	21:14:03
2	As 188.979†	-16.7	1.4	0.6750 ug/L	0.6750 ppb	21:14:23
2	B 249.677†	1487.1	1258.7	38.301 ug/L	38.301 ppb	21:14:03
2	Ba 233.527†	-5.5	12.1	0.1952 ug/L	0.1952 ppb	21:14:23
2	Be 313.107†	-2804.5	62.3	0.0328 ug/L	0.0328 ppb	21:14:03
2	Cd 226.502†	-78.5	18.2	0.2652 ug/L	0.2652 ppb	21:14:23
2	Co 228.616†	-14.8	13.1	0.3864 ug/L	0.3864 ppb	21:14:23
2	Cr 267.716†	-27.2	9.9	0.1600 ug/L	0.1600 ppb	21:14:23
2	Cu 324.752†	3270.5	87.1	0.4797 ug/L	0.4797 ppb	21:14:03
2	Mn 257.610†	249.7	104.0	0.2311 ug/L	0.2311 ppb	21:14:23
2	Mo 202.031†	21.4	2.3	0.0991 ug/L	0.0991 ppb	21:14:23
2	Ni 231.604†	161.8	5.8	0.1823 ug/L	0.1823 ppb	21:14:23

2	P 214.914†	-110.5	59.9	50.418 ug/L	50.418 ppb	21:14:23
2	Pb 220.353†	76.8	6.5	0.8361 ug/L	0.8361 ppb	21:14:23
2	S 181.975 Axial†	37.9	1.9	1.9604 ug/L	1.9604 ppb	21:14:23
2	Sb 206.836†	34.0	10.3	4.1490 ug/L	4.1490 ppb	21:14:23
2	Se 196.026†	-7.6	-1.2	-0.6124 ug/L	-0.6124 ppb	21:14:23
2	Si 251.611†	449.3	42.9	2.2757 ug/L	2.2757 ppb	21:14:23
2	Sn 189.927†	-1.6	-1.5	-0.1905 ug/L	-0.1905 ppb	21:14:23
2	Ti 334.940†	646.8	81.3	0.1438 ug/L	0.1438 ppb	21:14:03
2	Tl 190.801†	-32.2	3.0	1.3689 ug/L	1.3689 ppb	21:14:23
2	U 409.014†	97.9	-21.6	-1.0613 ug/L	-1.0613 ppb	21:14:03
2	V 292.402†	-311.5	-42.6	-0.3853 ug/L	-0.3853 ppb	21:14:03
2	Zn 213.857†	3427.7	3020.7	37.057 ug/L	37.057 ppb	21:14:03
2	SiO2†	455.2	59.6	6.7338 ug/L	6.7338 ppb	21:15:35
3	Sc Radial	34856.6	34856.6	98.9 %		21:12:59
3	Y RADIAL	24279.6	24279.6	98.88 %		21:12:59
3	Al 396.153Radial†	-35.5	7.2	3.2927 ug/L	3.2927 ppb	21:12:59
3	Ca 317.933Radial†	78.3	5.6	3.8491 ug/L	3.8491 ppb	21:13:19
3	Fe 238.204 Radial†	42.1	0.5	5.1910 ug/L	5.1910 ppb	21:13:19
3	K 766.490 Radial†	4268.5	3298.2	570.87 ug/L	570.87 ppb	21:12:59
3	Mg 279.077 IEC†	2.5	-0.5	-8.4987 ug/L	-8.4987 ppb	21:13:19
3	Na 589.592 Radial†	1625.3	1490.2	113.66 ug/L	113.66 ppb	21:12:59
3	Sr 421.552†	348.6	-0.1	-0.0004 ug/L	-0.0004 ppb	21:12:59
3	Sc 361.383	953363.3	953363.3	98.465 %		21:14:28
3	Y 371.029	661243.4	661243.4	98.242 %		21:14:28
3	Ag 328.068†	101.5	33.3	0.2367 ug/L	0.2367 ppb	21:14:34
3	As 188.979†	-20.6	-2.6	-1.2312 ug/L	-1.2312 ppb	21:14:54
3	B 249.677†	1519.0	1292.0	39.286 ug/L	39.286 ppb	21:14:34
3	Ba 233.527†	1.3	19.0	0.3059 ug/L	0.3059 ppb	21:14:54
3	Be 313.107†	-2829.3	35.5	0.0189 ug/L	0.0189 ppb	21:14:34
3	Cd 226.502†	-87.0	9.5	0.1367 ug/L	0.1367 ppb	21:14:54
3	Co 228.616†	-30.1	-2.5	-0.0728 ug/L	-0.0728 ppb	21:14:54
3	Cr 267.716†	-22.3	14.8	0.2417 ug/L	0.2417 ppb	21:14:54
3	Cu 324.752†	3294.7	113.4	0.6297 ug/L	0.6297 ppb	21:14:34
3	Mn 257.610†	220.8	74.7	0.1687 ug/L	0.1687 ppb	21:14:54
3	Mo 202.031†	30.0	11.1	0.4784 ug/L	0.4784 ppb	21:14:54
3	Ni 231.604†	163.4	7.4	0.2346 ug/L	0.2346 ppb	21:14:54
3	P 214.914†	-110.7	59.6	50.100 ug/L	50.100 ppb	21:14:54
3	Pb 220.353†	90.1	20.0	2.5660 ug/L	2.5660 ppb	21:14:54
3	S 181.975 Axial†	42.4	6.5	6.6047 ug/L	6.6047 ppb	21:14:54
3	Sb 206.836†	25.9	2.1	0.8357 ug/L	0.8357 ppb	21:14:54
3	Se 196.026†	-6.3	0.1	0.0655 ug/L	0.0655 ppb	21:14:54
3	Si 251.611†	446.8	40.6	2.1432 ug/L	2.1432 ppb	21:14:54
3	Sn 189.927†	-0.3	-0.2	-0.0208 ug/L	-0.0208 ppb	21:14:54
3	Ti 334.940†	647.1	81.9	0.1435 ug/L	0.1435 ppb	21:14:34
3	Tl 190.801†	-28.3	6.9	3.1319 ug/L	3.1319 ppb	21:14:54
3	U 409.014†	149.4	30.8	1.5167 ug/L	1.5167 ppb	21:14:34
3	V 292.402†	-287.5	-18.4	-0.1787 ug/L	-0.1787 ppb	21:14:34
3	Zn 213.857†	3484.4	3080.1	37.780 ug/L	37.780 ppb	21:14:34
3	SiO2†	465.1	69.9	7.8946 ug/L	7.8946 ppb	21:15:55

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	957447.0	98.887 %	0.6850			0.69%
Sc Radial	34961.6	99.2 %	0.35			0.36%
Y 371.029	663925.1	98.640 %	0.6407			0.65%
Y RADIAL	24368.8	99.24 %	0.508			0.51%
Ag 328.068†	42.5	0.2962 ug/L	0.12786	0.2962 ppb	0.12786	43.16%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.1	4.6094 ug/L	2.51919	4.6094 ppb	2.51919	54.65%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.3	0.1247 ug/L	1.18117	0.1247 ppb	1.18117	947.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1288.9	39.205 ug/L	0.8656	39.205 ppb	0.8656	2.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	11.1	0.1797 ug/L	0.13468	0.1797 ppb	0.13468	74.96%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	25.3	0.0135 ug/L	0.02249	0.0135 ppb	0.02249	166.38%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.1	2.7917 ug/L	1.77600	2.7917 ppb	1.77600	63.62%

	QC value within limits for Ca 317.933 Radial	Recovery = Not calculated					
Cd 226.502†	9.2	0.1335 ug/L	0.13321	0.1335 ppb	0.13321	99.75%	
	QC value within limits for Cd 226.502	Recovery = Not calculated					
Co 228.616†	4.1	0.1226 ug/L	0.23711	0.1226 ppb	0.23711	193.41%	
	QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	7.1	0.1153 ug/L	0.15370	0.1153 ppb	0.15370	133.28%	
	QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 324.752†	87.7	0.4849 ug/L	0.14231	0.4849 ppb	0.14231	29.35%	
	QC value within limits for Cu 324.752	Recovery = Not calculated					
Fe 238.204 Radial†	-1.4	-15.079 ug/L	24.0815	-15.079 ppb	24.0815	159.70%	
	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated					
K 766.490 Radial†	3432.7	594.16 ug/L	34.346	594.16 ppb	34.346	5.78%	
	QC value greater than the upper limit for K 766.490 Radial	Recovery = Not calculated					
Mg 279.077 IEC†	-1.3	-20.474 ug/L	11.8171	-20.474 ppb	11.8171	57.72%	
	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated					
Mn 257.610†	72.5	0.1621 ug/L	0.07249	0.1621 ppb	0.07249	44.71%	
	QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	9.0	0.3858 ug/L	0.25342	0.3858 ppb	0.25342	65.69%	
	QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592 Radial†	1403.1	107.00 ug/L	7.617	107.00 ppb	7.617	7.12%	
	QC value within limits for Na 589.592 Radial	Recovery = Not calculated					
Ni 231.604†	4.1	0.1290 ug/L	0.14010	0.1290 ppb	0.14010	108.63%	
	QC value within limits for Ni 231.604	Recovery = Not calculated					
P 214.914†	58.8	49.489 ug/L	1.3434	49.489 ppb	1.3434	2.71%	
	QC value within limits for P 214.914	Recovery = Not calculated					
Pb 220.353†	12.7	1.6342 ug/L	0.87267	1.6342 ppb	0.87267	53.40%	
	QC value within limits for Pb 220.353	Recovery = Not calculated					
S 181.975 Axial†	4.5	4.5255 ug/L	2.35998	4.5255 ppb	2.35998	52.15%	
	QC value within limits for S 181.975 Axial	Recovery = Not calculated					
Sb 206.836†	7.4	2.9828 ug/L	1.86176	2.9828 ppb	1.86176	62.42%	
	QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-1.8	-0.8179 ug/L	1.00203	-0.8179 ppb	1.00203	122.52%	
	QC value within limits for Se 196.026	Recovery = Not calculated					
Si 251.611†	39.0	2.0605 ug/L	0.26629	2.0605 ppb	0.26629	12.92%	
	QC value within limits for Si 251.611	Recovery = Not calculated					
Sn 189.927†	1.2	0.1564 ug/L	0.46178	0.1564 ppb	0.46178	295.22%	
	QC value within limits for Sn 189.927	Recovery = Not calculated					
Sr 421.552†	5.4	0.0125 ug/L	0.04702	0.0125 ppb	0.04702	375.27%	
	QC value within limits for Sr 421.552	Recovery = Not calculated					
Ti 334.940†	71.2	0.1252 ug/L	0.03196	0.1252 ppb	0.03196	25.52%	
	QC value within limits for Ti 334.940	Recovery = Not calculated					
Tl 190.801†	2.4	1.0689 ug/L	2.22820	1.0689 ppb	2.22820	208.45%	
	QC value within limits for Tl 190.801	Recovery = Not calculated					
U 409.014†	8.7	0.4316 ug/L	1.33647	0.4316 ppb	1.33647	309.69%	
	QC value within limits for U 409.014	Recovery = Not calculated					
V 292.402†	-18.7	-0.1780 ug/L	0.20766	-0.1780 ppb	0.20766	116.66%	
	QC value within limits for V 292.402	Recovery = Not calculated					
Zn 213.857†	3027.1	37.132 ug/L	0.6131	37.132 ppb	0.6131	1.65%	
	QC value greater than the upper limit for Zn 213.857	Recovery = Not calculated					
SiO2†	61.6	6.9562 ug/L	0.84927	6.9562 ppb	0.84927	12.21%	
	QC value within limits for SiO2	Recovery = Not calculated					
QC Failed. Continue with analysis.							

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Analysis Begun

Start Time: 4/23/2007 21:37:58

Plasma On Time: 4/23/2007 08:46:28

Logged In Analyst: optimal

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1030502Autosampler Model: AS-93plus

Sample Information File: C:\pe\optimal\Sample Information\042307.SIF

Batch ID:

Results Data Set: 042307

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

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 4/23/2007 21:37:58

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	34371.7	34371.7	97.5 %		21:39:42
1	Y RADIAL	23691.5	23691.5	96.48 %		21:39:42
1	Al 396.153Radial†	10666.3	10984.8	5032.9 ug/L	5032.9 ppb	21:39:42
1	Ca 317.933Radial†	7305.6	7420.6	5082.8 ug/L	5082.8 ppb	21:39:42
1	Fe 238.204 Radial†	481.0	451.3	4995.3 ug/L	4995.3 ppb	21:40:03
1	K 766.490 Radial†	32042.5	31850.3	5513.2 ug/L	5513.2 ppb	21:39:42
1	Mg 279.077 IEC†	306.5	311.4	4987.3 ug/L	4987.3 ppb	21:40:03
1	Na 589.592 Radial†	132002.9	135257.6	10317 ug/L	10317 ppb	21:39:42
1	Sr 421.552†	210784.4	215874.5	505.84 ug/L	505.84 ppb	21:39:42
1	Sc 361.383	948789.3	948789.3	97.993 %		21:41:02
1	Y 371.029	651426.5	651426.5	96.783 %		21:41:02
1	Ag 328.068†	69812.9	71173.2	511.97 ug/L	511.97 ppb	21:41:08
1	As 188.979†	1007.7	1046.7	501.33 ug/L	501.33 ppb	21:41:28
1	B 249.677†	17001.4	17098.9	514.71 ug/L	514.71 ppb	21:41:08
1	Ba 233.527†	30498.6	31141.0	503.17 ug/L	503.17 ppb	21:41:08
1	Be 313.107†	941303.8	963495.0	503.09 ug/L	503.09 ppb	21:41:02
1	Cd 226.502†	34211.4	35010.1	503.60 ug/L	503.60 ppb	21:41:08
1	Co 228.616†	16857.9	17231.3	509.31 ug/L	509.31 ppb	21:41:08
1	Cr 267.716†	30335.7	30994.7	504.65 ug/L	504.65 ppb	21:41:08
1	Cu 324.752†	92526.6	91189.4	506.23 ug/L	506.23 ppb	21:41:08
1	Mn 257.610†	218320.5	222643.2	502.24 ug/L	502.24 ppb	21:41:08
1	Mo 202.031†	11412.5	11626.9	500.78 ug/L	500.78 ppb	21:41:28
1	Ni 231.604†	15937.6	16105.6	506.77 ug/L	506.77 ppb	21:41:08
1	P 214.914†	2755.8	2984.3	2500.9 ug/L	2500.9 ppb	21:41:28
1	Pb 220.353†	3920.2	3929.9	503.99 ug/L	503.99 ppb	21:41:28
1	S 181.975 Axial†	1003.8	987.9	997.38 ug/L	997.38 ppb	21:41:28
1	Sb 206.836†	1253.7	1255.2	505.56 ug/L	505.56 ppb	21:41:28
1	Se 196.026†	1099.7	1128.7	514.05 ug/L	514.05 ppb	21:41:28
1	Si 251.611†	47006.8	47556.6	2511.5 ug/L	2511.5 ppb	21:41:08
1	Sn 189.927†	3753.8	3830.8	495.64 ug/L	495.64 ppb	21:41:28
1	Ti 334.940†	277842.3	282958.5	497.56 ug/L	497.56 ppb	21:41:08
1	Tl 190.801†	1052.1	1109.4	504.90 ug/L	504.90 ppb	21:41:28
1	U 409.014†	10505.7	10600.0	517.95 ug/L	517.95 ppb	21:41:08
1	V 292.402†	54459.0	55848.2	489.01 ug/L	489.01 ppb	21:41:08
1	Zn 213.857†	42015.6	42417.6	517.89 ug/L	517.89 ppb	21:41:08
1	SiO2†	46953.2	47512.6	5365.7 ug/L	5365.7 ppb	21:42:38
2	Sc Radial	34628.2	34628.2	98.2 %		21:40:08
2	Y RADIAL	23978.8	23978.8	97.65 %		21:40:08
2	Al 396.153Radial†	10538.6	10773.8	4936.1 ug/L	4936.1 ppb	21:40:08
2	Ca 317.933Radial†	7191.7	7249.2	4965.4 ug/L	4965.4 ppb	21:40:08
2	Fe 238.204 Radial†	484.8	451.6	4997.9 ug/L	4997.9 ppb	21:40:28
2	K 766.490 Radial†	31814.8	31375.0	5431.0 ug/L	5431.0 ppb	21:40:08
2	Mg 279.077 IEC†	312.1	314.7	5040.7 ug/L	5040.7 ppb	21:40:28
2	Na 589.592 Radial†	130076.1	132292.8	10091 ug/L	10091 ppb	21:40:08
2	Sr 421.552†	207385.7	210812.3	493.98 ug/L	493.98 ppb	21:40:08
2	Sc 361.383	963846.6	963846.6	99.548 %		21:41:34
2	Y 371.029	662534.7	662534.7	98.434 %		21:41:34

2	Ag 328.068†	69729.9	69976.8	503.40 ug/L	503.40 ppb	21:41:40
2	As 188.979†	1013.1	1036.0	496.23 ug/L	496.23 ppb	21:42:00
2	B 249.677†	17057.2	16883.9	508.20 ug/L	508.20 ppb	21:41:40
2	Ba 233.527†	30604.6	30761.2	497.03 ug/L	497.03 ppb	21:41:40
2	Be 313.107†	946795.1	954004.8	498.13 ug/L	498.13 ppb	21:41:34
2	Cd 226.502†	34251.5	34505.0	496.33 ug/L	496.33 ppb	21:41:40
2	Co 228.616†	16882.3	16987.0	502.10 ug/L	502.10 ppb	21:41:40
2	Cr 267.716†	30362.3	30537.7	497.21 ug/L	497.21 ppb	21:41:40
2	Cu 324.752†	92337.1	89523.9	496.99 ug/L	496.99 ppb	21:41:40
2	Mn 257.610†	218066.8	218907.9	493.82 ug/L	493.82 ppb	21:41:40
2	Mo 202.031†	11442.3	11474.9	494.24 ug/L	494.24 ppb	21:42:00
2	Ni 231.604†	15997.9	15912.1	500.68 ug/L	500.68 ppb	21:41:40
2	P 214.914†	2758.8	2943.3	2466.5 ug/L	2466.5 ppb	21:42:00
2	Pb 220.353†	3903.7	3850.1	493.85 ug/L	493.85 ppb	21:42:00
2	S 181.975 Axial†	1005.3	973.4	982.77 ug/L	982.77 ppb	21:42:00
2	Sb 206.836†	1259.4	1240.9	499.78 ug/L	499.78 ppb	21:42:00
2	Se 196.026†	1097.7	1109.2	505.35 ug/L	505.35 ppb	21:42:00
2	Si 251.611†	47048.7	46849.3	2474.2 ug/L	2474.2 ppb	21:41:40
2	Sn 189.927†	3769.8	3787.1	489.99 ug/L	489.99 ppb	21:42:00
2	Ti 334.940†	277644.9	278330.8	489.42 ug/L	489.42 ppb	21:41:40
2	Tl 190.801†	1050.5	1091.0	496.52 ug/L	496.52 ppb	21:42:00
2	U 409.014†	10547.4	10474.3	511.82 ug/L	511.82 ppb	21:41:40
2	V 292.402†	54492.4	55013.6	481.67 ug/L	481.67 ppb	21:41:40
2	Zn 213.857†	42024.2	41756.4	509.81 ug/L	509.81 ppb	21:41:40
2	SiO2†	47248.6	47060.8	5314.7 ug/L	5314.7 ppb	21:42:43
3	Sc Radial	35013.3	35013.3	99.3 %		21:40:34
3	Y RADIAL	24184.8	24184.8	98.49 %		21:40:34
3	Al 396.153Radial†	10547.8	10665.0	4886.1 ug/L	4886.1 ppb	21:40:34
3	Ca 317.933Radial†	7242.1	7219.3	4945.0 ug/L	4945.0 ppb	21:40:34
3	Fe 238.204 Radial†	480.4	441.7	4888.3 ug/L	4888.3 ppb	21:40:54
3	K 766.490 Radial†	32071.7	31277.4	5414.0 ug/L	5414.0 ppb	21:40:34
3	Mg 279.077 IEC†	309.5	308.6	4942.9 ug/L	4942.9 ppb	21:40:54
3	Na 589.592 Radial†	130368.1	131129.9	10003 ug/L	10003 ppb	21:40:34
3	Sr 421.552†	208115.4	209224.4	490.26 ug/L	490.26 ppb	21:40:34
3	Sc 361.383	962466.2	962466.2	99.405 %		21:42:07
3	Y 371.029	661023.0	661023.0	98.209 %		21:42:07
3	Ag 328.068†	69595.5	69942.1	503.11 ug/L	503.11 ppb	21:42:12
3	As 188.979†	1007.5	1031.9	494.23 ug/L	494.23 ppb	21:42:32
3	B 249.677†	17016.3	16867.3	507.78 ug/L	507.78 ppb	21:42:12
3	Ba 233.527†	30442.3	30642.0	495.11 ug/L	495.11 ppb	21:42:12
3	Be 313.107†	952836.9	961446.8	502.00 ug/L	502.00 ppb	21:42:07
3	Cd 226.502†	34079.5	34381.2	494.56 ug/L	494.56 ppb	21:42:12
3	Co 228.616†	16760.3	16888.6	499.19 ug/L	499.19 ppb	21:42:12
3	Cr 267.716†	30276.4	30495.1	496.52 ug/L	496.52 ppb	21:42:12
3	Cu 324.752†	92216.1	89535.2	497.05 ug/L	497.05 ppb	21:42:12
3	Mn 257.610†	217046.9	218196.0	492.21 ug/L	492.21 ppb	21:42:12
3	Mo 202.031†	11416.7	11465.6	493.83 ug/L	493.83 ppb	21:42:32
3	Ni 231.604†	15883.3	15819.8	497.78 ug/L	497.78 ppb	21:42:12
3	P 214.914†	2753.4	2941.9	2465.4 ug/L	2465.4 ppb	21:42:32
3	Pb 220.353†	3915.2	3867.2	496.05 ug/L	496.05 ppb	21:42:32
3	S 181.975 Axial†	995.8	965.2	974.52 ug/L	974.52 ppb	21:42:32
3	Sb 206.836†	1254.0	1237.3	498.33 ug/L	498.33 ppb	21:42:32
3	Se 196.026†	1098.0	1111.1	505.93 ug/L	505.93 ppb	21:42:32
3	Si 251.611†	46755.9	46622.5	2462.1 ug/L	2462.1 ppb	21:42:12
3	Sn 189.927†	3753.4	3776.0	488.55 ug/L	488.55 ppb	21:42:32
3	Ti 334.940†	276564.6	277644.1	488.21 ug/L	488.21 ppb	21:42:12
3	Tl 190.801†	1054.5	1096.5	499.02 ug/L	499.02 ppb	21:42:32
3	U 409.014†	10449.8	10391.4	507.76 ug/L	507.76 ppb	21:42:12
3	V 292.402†	54254.8	54853.1	480.23 ug/L	480.23 ppb	21:42:12
3	Zn 213.857†	41997.1	41789.7	510.23 ug/L	510.23 ppb	21:42:12
3	SiO2†	47040.1	46919.2	5298.7 ug/L	5298.7 ppb	21:42:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	958367.4	98.982 %	0.8597			0.87%
Sc Radial	34671.1	98.3 %	0.92			0.93%
Y 371.029	658328.1	97.809 %	0.8951			0.92%
Y RADIAL	23951.7	97.54 %	1.009			1.03%
Ag 328.068†	70364.0	506.16 ug/L	5.034	506.16 ppb	5.034	0.99%

	QC value within limits for Ag 328.068	Recovery = 101.23%				
Al	396.153Radial†	10807.9	4951.7 ug/L	74.65	4951.7 ppb	74.65 1.51%
	QC value within limits for Al 396.153Radial	Recovery = 99.03%				
As	188.979†	1038.2	497.26 ug/L	3.662	497.26 ppb	3.662 0.74%
	QC value within limits for As 188.979	Recovery = 99.45%				
B	249.677†	16950.0	510.23 ug/L	3.886	510.23 ppb	3.886 0.76%
	QC value within limits for B 249.677	Recovery = 102.05%				
Ba	233.527†	30848.1	498.43 ug/L	4.212	498.43 ppb	4.212 0.84%
	QC value within limits for Ba 233.527	Recovery = 99.69%				
Be	313.107†	959648.9	501.07 ug/L	2.609	501.07 ppb	2.609 0.52%
	QC value within limits for Be 313.107	Recovery = 100.21%				
Ca	317.933Radial†	7296.4	4997.7 ug/L	74.40	4997.7 ppb	74.40 1.49%
	QC value within limits for Ca 317.933Radial	Recovery = 99.95%				
Cd	226.502†	34632.1	498.16 ug/L	4.793	498.16 ppb	4.793 0.96%
	QC value within limits for Cd 226.502	Recovery = 99.63%				
Co	228.616†	17035.6	503.53 ug/L	5.212	503.53 ppb	5.212 1.04%
	QC value within limits for Co 228.616	Recovery = 100.71%				
Cr	267.716†	30675.8	499.46 ug/L	4.509	499.46 ppb	4.509 0.90%
	QC value within limits for Cr 267.716	Recovery = 99.89%				
Cu	324.752†	90082.8	500.09 ug/L	5.318	500.09 ppb	5.318 1.06%
	QC value within limits for Cu 324.752	Recovery = 100.02%				
Fe	238.204 Radial†	448.2	4960.5 ug/L	62.52	4960.5 ppb	62.52 1.26%
	QC value within limits for Fe 238.204 Radial	Recovery = 99.21%				
K	766.490 Radial†	31500.9	5452.7 ug/L	53.06	5452.7 ppb	53.06 0.97%
	QC value within limits for K 766.490 Radial	Recovery = 109.05%				
Mg	279.077 IEC†	311.6	4990.3 ug/L	48.96	4990.3 ppb	48.96 0.98%
	QC value within limits for Mg 279.077 IEC	Recovery = 99.81%				
Mn	257.610†	219915.7	496.09 ug/L	5.388	496.09 ppb	5.388 1.09%
	QC value within limits for Mn 257.610	Recovery = 99.22%				
Mo	202.031†	11522.5	496.28 ug/L	3.900	496.28 ppb	3.900 0.79%
	QC value within limits for Mo 202.031	Recovery = 99.26%				
Na	589.592 Radial†	132893.4	10137 ug/L	162.3	10137 ppb	162.3 1.60%
	QC value within limits for Na 589.592 Radial	Recovery = 101.37%				
Ni	231.604†	15945.8	501.74 ug/L	4.589	501.74 ppb	4.589 0.91%
	QC value within limits for Ni 231.604	Recovery = 100.35%				
P	214.914†	2956.5	2477.6 ug/L	20.20	2477.6 ppb	20.20 0.82%
	QC value within limits for P 214.914	Recovery = 99.10%				
Pb	220.353†	3882.1	497.96 ug/L	5.334	497.96 ppb	5.334 1.07%
	QC value within limits for Pb 220.353	Recovery = 99.59%				
S	181.975 Axial†	975.5	984.89 ug/L	11.574	984.89 ppb	11.574 1.18%
	QC value within limits for S 181.975 Axial	Recovery = 98.49%				
Sb	206.836†	1244.4	501.22 ug/L	3.828	501.22 ppb	3.828 0.76%
	QC value within limits for Sb 206.836	Recovery = 100.24%				
Se	196.026†	1116.3	508.44 ug/L	4.861	508.44 ppb	4.861 0.96%
	QC value within limits for Se 196.026	Recovery = 101.69%				
Si	251.611†	47009.5	2482.6 ug/L	25.75	2482.6 ppb	25.75 1.04%
	QC value within limits for Si 251.611	Recovery = 99.30%				
Sn	189.927†	3798.0	491.39 ug/L	3.748	491.39 ppb	3.748 0.76%
	QC value within limits for Sn 189.927	Recovery = 98.28%				
Sr	421.552†	211970.4	496.70 ug/L	8.138	496.70 ppb	8.138 1.64%
	QC value within limits for Sr 421.552	Recovery = 99.34%				
Ti	334.940†	279644.5	491.73 ug/L	5.086	491.73 ppb	5.086 1.03%
	QC value within limits for Ti 334.940	Recovery = 98.35%				
Tl	190.801†	1099.0	500.15 ug/L	4.302	500.15 ppb	4.302 0.86%
	QC value within limits for Tl 190.801	Recovery = 100.03%				
U	409.014†	10488.5	512.51 ug/L	5.128	512.51 ppb	5.128 1.00%
	QC value within limits for U 409.014	Recovery = 102.50%				
V	292.402†	55238.3	483.64 ug/L	4.706	483.64 ppb	4.706 0.97%
	QC value within limits for V 292.402	Recovery = 96.73%				
Zn	213.857†	41987.9	512.64 ug/L	4.550	512.64 ppb	4.550 0.89%
	QC value within limits for Zn 213.857	Recovery = 102.53%				
SiO2†	47164.2	5326.4 ug/L	35.00	5326.4 ppb	35.00	0.66%
	QC value within limits for SiO2	Recovery = 99.61%				

All analyte(s) passed QC.

Sequence No.: 2
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 4/23/2007 21:45:05
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	34422.0	34422.0	97.6 %		21:46:51
1	Y RADIAL	23938.8	23938.8	97.49 %		21:46:51
1	Al 396.153Radial†	-78.5	-37.3	-17.149 ug/L	-17.149 ppb	21:46:51
1	Ca 317.933Radial†	72.8	1.0	0.6628 ug/L	0.6628 ppb	21:47:11
1	Fe 238.204 Radial†	40.3	-0.8	-8.3372 ug/L	-8.3372 ppb	21:47:11
1	K 766.490 Radial†	2742.3	1789.4	309.72 ug/L	309.72 ppb	21:46:51
1	Mg 279.077 IEC†	0.6	-2.4	-38.705 ug/L	-38.705 ppb	21:47:11
1	Na 589.592 Radial†	1023.2	894.2	68.193 ug/L	68.193 ppb	21:46:51
1	Sr 421.552†	332.6	-12.1	-0.0283 ug/L	-0.0283 ppb	21:46:51
1	Sc 361.383	971909.4	971909.4	100.38 %		21:48:09
1	Y 371.029	675769.2	675769.2	100.40 %		21:48:09
1	Ag 328.068†	152.3	81.9	0.5839 ug/L	0.5839 ppb	21:48:14
1	As 188.979†	-16.6	1.8	0.8655 ug/L	0.8655 ppb	21:48:35
1	B 249.677†	916.2	662.0	20.135 ug/L	20.135 ppb	21:48:35
1	Ba 233.527†	-9.0	8.7	0.1409 ug/L	0.1409 ppb	21:48:35
1	Be 313.107†	-2842.9	76.9	0.0405 ug/L	0.0405 ppb	21:48:14
1	Cd 226.502†	-84.6	13.6	0.1958 ug/L	0.1958 ppb	21:48:35
1	Co 228.616†	-25.6	2.6	0.0759 ug/L	0.0759 ppb	21:48:35
1	Cr 267.716†	-32.8	4.8	0.0787 ug/L	0.0787 ppb	21:48:35
1	Cu 324.752†	3239.0	-5.9	-0.0330 ug/L	-0.0330 ppb	21:48:14
1	Mn 257.610†	191.8	41.6	0.0939 ug/L	0.0939 ppb	21:48:35
1	Mo 202.031†	21.3	1.8	0.0791 ug/L	0.0791 ppb	21:48:35
1	Ni 231.604†	154.6	-4.5	-0.1409 ug/L	-0.1409 ppb	21:48:35
1	P 214.914†	-134.7	37.8	31.847 ug/L	31.847 ppb	21:48:35
1	Pb 220.353†	78.4	6.7	0.8608 ug/L	0.8608 ppb	21:48:35
1	S 181.975 Axial†	38.8	2.2	2.1895 ug/L	2.1895 ppb	21:48:35
1	Sb 206.836†	24.9	0.6	0.2430 ug/L	0.2430 ppb	21:48:35
1	Se 196.026†	-5.9	0.7	0.2732 ug/L	0.2732 ppb	21:48:35
1	Si 251.611†	456.5	41.6	2.2062 ug/L	2.2062 ppb	21:48:35
1	Sn 189.927†	6.0	6.2	0.7948 ug/L	0.7948 ppb	21:48:35
1	Ti 334.940†	669.1	91.3	0.1611 ug/L	0.1611 ppb	21:48:14
1	Tl 190.801†	-27.1	8.7	3.9186 ug/L	3.9186 ppb	21:48:35
1	U 409.014†	101.9	-19.4	-0.9587 ug/L	-0.9587 ppb	21:48:14
1	V 292.402†	-234.8	39.7	0.3551 ug/L	0.3551 ppb	21:48:14
1	Zn 213.857†	1388.0	924.1	11.335 ug/L	11.335 ppb	21:48:35
1	SiO2†	463.5	59.3	6.6988 ug/L	6.6988 ppb	21:49:57
2	Sc Radial	34832.5	34832.5	98.8 %		21:47:16
2	Y RADIAL	24321.5	24321.5	99.05 %		21:47:16
2	Al 396.153Radial†	-42.3	0.3	0.0964 ug/L	0.0964 ppb	21:47:16
2	Ca 317.933Radial†	73.5	0.8	0.5544 ug/L	0.5544 ppb	21:47:36
2	Fe 238.204 Radial†	41.4	-0.2	-2.2118 ug/L	-2.2118 ppb	21:47:36
2	K 766.490 Radial†	2705.2	1718.8	297.49 ug/L	297.49 ppb	21:47:16
2	Mg 279.077 IEC†	0.9	-2.2	-34.605 ug/L	-34.605 ppb	21:47:36
2	Na 589.592 Radial†	1113.9	973.7	74.271 ug/L	74.271 ppb	21:47:16
2	Sr 421.552†	353.4	4.9	0.0116 ug/L	0.0116 ppb	21:47:16
2	Sc 361.383	972164.7	972164.7	100.41 %		21:48:40
2	Y 371.029	676042.4	676042.4	100.44 %		21:48:40
2	Ag 328.068†	145.2	74.8	0.5301 ug/L	0.5301 ppb	21:48:45
2	As 188.979†	-12.9	5.5	2.6253 ug/L	2.6253 ppb	21:49:05
2	B 249.677†	910.4	656.0	19.950 ug/L	19.950 ppb	21:49:05
2	Ba 233.527†	-17.4	0.3	0.0054 ug/L	0.0054 ppb	21:49:05
2	Be 313.107†	-2918.6	2.2	0.0015 ug/L	0.0015 ppb	21:48:45
2	Cd 226.502†	-89.8	8.4	0.1225 ug/L	0.1225 ppb	21:49:05
2	Co 228.616†	-27.3	0.9	0.0283 ug/L	0.0283 ppb	21:49:05
2	Cr 267.716†	-30.8	6.8	0.1115 ug/L	0.1115 ppb	21:49:05
2	Cu 324.752†	3271.1	25.3	0.1397 ug/L	0.1397 ppb	21:48:45
2	Mn 257.610†	198.0	47.7	0.1075 ug/L	0.1075 ppb	21:49:05
2	Mo 202.031†	29.6	10.1	0.4346 ug/L	0.4346 ppb	21:49:05
2	Ni 231.604†	158.3	-0.8	-0.0265 ug/L	-0.0265 ppb	21:49:05

2	P 214.914†	-146.1	26.5	22.320 ug/L	22.320 ppb	21:49:05
2	Pb 220.353†	79.7	8.0	1.0199 ug/L	1.0199 ppb	21:49:05
2	S 181.975 Axial†	38.0	1.3	1.3374 ug/L	1.3374 ppb	21:49:05
2	Sb 206.836†	28.6	4.3	1.7252 ug/L	1.7252 ppb	21:49:05
2	Se 196.026†	0.7	7.3	3.2380 ug/L	3.2380 ppb	21:49:05
2	Si 251.611†	465.6	50.6	2.6734 ug/L	2.6734 ppb	21:49:05
2	Sn 189.927†	-0.3	-0.1	-0.0169 ug/L	-0.0169 ppb	21:49:05
2	Ti 334.940†	658.8	80.9	0.1410 ug/L	0.1410 ppb	21:48:45
2	Tl 190.801†	-37.7	-1.9	-0.8464 ug/L	-0.8464 ppb	21:49:05
2	U 409.014†	164.8	43.2	2.1306 ug/L	2.1306 ppb	21:48:45
2	V 292.402†	-288.9	-14.1	-0.1370 ug/L	-0.1370 ppb	21:48:45
2	Zn 213.857†	1401.3	937.0	11.492 ug/L	11.492 ppb	21:49:05
2	SiO2†	461.8	57.6	6.4994 ug/L	6.4994 ppb	21:50:17
3	Sc Radial	34959.3	34959.3	99.1 %		21:47:41
3	Y RADIAL	24367.0	24367.0	99.23 %		21:47:41
3	Al 396.153Radial†	-55.7	-13.0	-6.0047 ug/L	-6.0047 ppb	21:47:41
3	Ca 317.933Radial†	71.8	-1.2	-0.8040 ug/L	-0.8040 ppb	21:48:02
3	Fe 238.204 Radial†	40.1	-1.6	-17.634 ug/L	-17.634 ppb	21:48:02
3	K 766.490 Radial†	2634.7	1637.7	283.46 ug/L	283.46 ppb	21:47:41
3	Mg 279.077 IEC†	0.1	-3.0	-47.434 ug/L	-47.434 ppb	21:48:02
3	Na 589.592 Radial†	1024.1	879.1	67.059 ug/L	67.059 ppb	21:47:41
3	Sr 421.552†	358.0	8.4	0.0196 ug/L	0.0196 ppb	21:47:41
3	Sc 361.383	966791.3	966791.3	99.852 %		21:49:11
3	Y 371.029	671002.6	671002.6	99.692 %		21:49:11
3	Ag 328.068†	56.9	-12.8	-0.0973 ug/L	-0.0973 ppb	21:49:16
3	As 188.979†	-17.1	1.2	0.5857 ug/L	0.5857 ppb	21:49:36
3	B 249.677†	866.8	617.4	18.785 ug/L	18.785 ppb	21:49:36
3	Ba 233.527†	-11.4	6.2	0.1003 ug/L	0.1003 ppb	21:49:36
3	Be 313.107†	-2892.2	12.5	0.0066 ug/L	0.0066 ppb	21:49:16
3	Cd 226.502†	-95.3	2.4	0.0371 ug/L	0.0371 ppb	21:49:36
3	Co 228.616†	-26.1	2.0	0.0591 ug/L	0.0591 ppb	21:49:36
3	Cr 267.716†	-31.8	5.6	0.0927 ug/L	0.0927 ppb	21:49:36
3	Cu 324.752†	3258.5	30.7	0.1690 ug/L	0.1690 ppb	21:49:16
3	Mn 257.610†	192.7	43.5	0.0963 ug/L	0.0963 ppb	21:49:36
3	Mo 202.031†	28.2	8.9	0.3821 ug/L	0.3821 ppb	21:49:36
3	Ni 231.604†	163.5	5.3	0.1657 ug/L	0.1657 ppb	21:49:36
3	P 214.914†	-142.9	28.9	24.316 ug/L	24.316 ppb	21:49:36
3	Pb 220.353†	77.7	6.4	0.8221 ug/L	0.8221 ppb	21:49:36
3	S 181.975 Axial†	38.1	1.6	1.6390 ug/L	1.6390 ppb	21:49:36
3	Sb 206.836†	27.5	3.3	1.3458 ug/L	1.3458 ppb	21:49:36
3	Se 196.026†	-1.4	5.2	2.2623 ug/L	2.2623 ppb	21:49:36
3	Si 251.611†	447.3	34.8	1.8394 ug/L	1.8394 ppb	21:49:36
3	Sn 189.927†	6.4	6.6	0.8475 ug/L	0.8475 ppb	21:49:36
3	Ti 334.940†	603.2	28.8	0.0488 ug/L	0.0488 ppb	21:49:16
3	Tl 190.801†	-33.6	2.0	0.9116 ug/L	0.9116 ppb	21:49:36
3	U 409.014†	182.5	61.8	3.0542 ug/L	3.0542 ppb	21:49:16
3	V 292.402†	-272.1	1.1	0.0049 ug/L	0.0049 ppb	21:49:16
3	Zn 213.857†	1410.7	954.2	11.706 ug/L	11.706 ppb	21:49:36
3	SiO2†	464.4	62.7	7.0785 ug/L	7.0785 ppb	21:50:37

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	970288.4	100.21	%	0.313				0.31%
Sc Radial	34737.9	98.5	%	0.80				0.81%
Y 371.029	674271.4	100.18	%	0.421				0.42%
Y RADIAL	24209.1	98.59	%	0.958				0.97%
Ag 328.068†	48.0	0.3389	ug/L	0.37871	0.3389	ppb	0.37871	111.75%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-16.7	-7.6859	ug/L	8.74494	-7.6859	ppb	8.74494	113.78%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	2.8	1.3588	ug/L	1.10568	1.3588	ppb	1.10568	81.37%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	645.1	19.623	ug/L	0.7320	19.623	ppb	0.7320	3.73%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.1	0.0822	ug/L	0.06953	0.0822	ppb	0.06953	84.58%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	30.5	0.0162	ug/L	0.02116	0.0162	ppb	0.02116	130.59%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	0.2	0.1377	ug/L	0.81737	0.1377	ppb	0.81737	593.48%

	QC value within limits for Ca 317.933 Radial	Recovery = Not calculated					
Cd 226.502†	8.1	0.1185 ug/L	0.07944	0.1185 ppb	0.07944	67.06%	
	QC value within limits for Cd 226.502	Recovery = Not calculated					
Co 228.616†	1.8	0.0544 ug/L	0.02417	0.0544 ppb	0.02417	44.42%	
	QC value within limits for Co 228.616	Recovery = Not calculated					
Cr 267.716†	5.8	0.0943 ug/L	0.01642	0.0943 ppb	0.01642	17.41%	
	QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 324.752†	16.7	0.0919 ug/L	0.10914	0.0919 ppb	0.10914	118.73%	
	QC value within limits for Cu 324.752	Recovery = Not calculated					
Fe 238.204 Radial†	-0.9	-9.3942 ug/L	7.76513	-9.3942 ppb	7.76513	82.66%	
	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated					
K 766.490 Radial†	1715.3	296.89 ug/L	13.137	296.89 ppb	13.137	4.42%	
	QC value greater than the upper limit for K 766.490 Radial	Recovery = Not calculated					
Mg 279.077 IEC†	-2.5	-40.248 ug/L	6.5522	-40.248 ppb	6.5522	16.28%	
	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated					
Mn 257.610†	44.3	0.0992 ug/L	0.00724	0.0992 ppb	0.00724	7.30%	
	QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	6.9	0.2986 ug/L	0.19188	0.2986 ppb	0.19188	64.26%	
	QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592 Radial†	915.7	69.841 ug/L	3.8782	69.841 ppb	3.8782	5.55%	
	QC value within limits for Na 589.592 Radial	Recovery = Not calculated					
Ni 231.604†	-0.0	-0.0005 ug/L	0.15494	-0.0005 ppb	0.15494	>999.9%	
	QC value within limits for Ni 231.604	Recovery = Not calculated					
P 214.914†	31.1	26.161 ug/L	5.0243	26.161 ppb	5.0243	19.21%	
	QC value within limits for P 214.914	Recovery = Not calculated					
Pb 220.353†	7.0	0.9010 ug/L	0.10481	0.9010 ppb	0.10481	11.63%	
	QC value within limits for Pb 220.353	Recovery = Not calculated					
S 181.975 Axial†	1.7	1.7220 ug/L	0.43208	1.7220 ppb	0.43208	25.09%	
	QC value within limits for S 181.975 Axial	Recovery = Not calculated					
Sb 206.836†	2.7	1.1047 ug/L	0.76996	1.1047 ppb	0.76996	69.70%	
	QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	4.4	1.9245 ug/L	1.51098	1.9245 ppb	1.51098	78.51%	
	QC value within limits for Se 196.026	Recovery = Not calculated					
Si 251.611†	42.3	2.2397 ug/L	0.41800	2.2397 ppb	0.41800	18.66%	
	QC value within limits for Si 251.611	Recovery = Not calculated					
Sn 189.927†	4.2	0.5418 ug/L	0.48457	0.5418 ppb	0.48457	89.44%	
	QC value within limits for Sn 189.927	Recovery = Not calculated					
Sr 421.552†	0.4	0.0009 ug/L	0.02567	0.0009 ppb	0.02567	>999.9%	
	QC value within limits for Sr 421.552	Recovery = Not calculated					
Ti 334.940†	67.0	0.1170 ug/L	0.05986	0.1170 ppb	0.05986	51.17%	
	QC value within limits for Ti 334.940	Recovery = Not calculated					
Tl 190.801†	2.9	1.3279 ug/L	2.40966	1.3279 ppb	2.40966	181.46%	
	QC value within limits for Tl 190.801	Recovery = Not calculated					
U 409.014†	28.5	1.4087 ug/L	2.10162	1.4087 ppb	2.10162	149.19%	
	QC value within limits for U 409.014	Recovery = Not calculated					
V 292.402†	8.9	0.0743 ug/L	0.25331	0.0743 ppb	0.25331	340.76%	
	QC value within limits for V 292.402	Recovery = Not calculated					
Zn 213.857†	938.4	11.511 ug/L	0.1860	11.511 ppb	0.1860	1.62%	
	QC value greater than the upper limit for Zn 213.857	Recovery = Not calculated					
SiO2†	59.8	6.7589 ug/L	0.29424	6.7589 ppb	0.29424	4.35%	
	QC value within limits for SiO2	Recovery = Not calculated					
QC Failed. Continue with analysis.							

Sequence No.: 3
 Sample ID: 1201318158|626724|1
 Analyst: JWJ
 Initial Sample Wt:
 Dilution:

Autosampler Location: 53
 Date Collected: 4/23/2007 21:52:48
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1201318158|626724|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35595.1	35595.1	101 %		21:54:33
1	Y RADIAL	24759.4	24759.4	100.8 %		21:54:33
1	Al 396.153Radial†	38.4	81.1	37.319 ug/L	37.319 ppb	21:54:33
1	Ca 317.933Radial†	64.6	-9.6	-6.5600 ug/L	-6.5600 ppb	21:54:53
1	Fe 238.204 Radial†	39.3	-3.2	-35.242 ug/L	-35.242 ppb	21:54:53
1	K 766.490 Radial†	18161.9	16970.9	2937.4 ug/L	2937.4 ppb	21:54:33
1	Mg 279.077 IEC†	1.1	-1.9	-31.103 ug/L	-31.103 ppb	21:54:53
1	Na 589.592 Radial†	18417.3	18089.7	1379.6 ug/L	1379.6 ppb	21:54:33
1	Sr 421.552†	1838.5	1468.4	3.4421 ug/L	3.4421 ppb	21:54:33
1	Sc 361.383	976082.6	976082.6	100.81 %		21:55:51
1	Y 371.029	677978.6	677978.6	100.73 %		21:55:51
1	Ag 328.068†	68.8	-1.6	-0.0242 ug/L	-0.0242 ppb	21:55:56
1	As 188.979†	-23.6	-5.0	-2.3947 ug/L	-2.3947 ppb	21:56:17
1	B 249.677†	785.8	528.7	16.100 ug/L	16.100 ppb	21:56:17
1	Ba 233.527†	-16.2	1.5	0.0254 ug/L	0.0254 ppb	21:56:17
1	Be 313.107†	-2983.4	-50.4	-0.0261 ug/L	-0.0261 ppb	21:55:56
1	Cd 226.502†	-97.9	0.7	0.0139 ug/L	0.0139 ppb	21:56:17
1	Co 228.616†	-33.3	-5.0	-0.1470 ug/L	-0.1470 ppb	21:56:17
1	Cr 267.716†	-22.7	15.0	0.2433 ug/L	0.2433 ppb	21:56:17
1	Cu 324.752†	3250.5	-8.3	-0.0498 ug/L	-0.0498 ppb	21:55:56
1	Mn 257.610†	191.5	40.5	0.0882 ug/L	0.0882 ppb	21:56:17
1	Mo 202.031†	19.3	-0.3	-0.0130 ug/L	-0.0130 ppb	21:56:17
1	Ni 231.604†	158.9	-0.9	-0.0268 ug/L	-0.0268 ppb	21:56:17
1	P 214.914†	-149.6	23.6	19.938 ug/L	19.938 ppb	21:56:17
1	Pb 220.353†	79.9	7.8	1.0050 ug/L	1.0050 ppb	21:56:17
1	S 181.975 Axial†	37.1	0.2	0.2299 ug/L	0.2299 ppb	21:56:17
1	Sb 206.836†	26.3	1.9	0.7622 ug/L	0.7622 ppb	21:56:17
1	Se 196.026†	-8.4	-1.8	-0.8820 ug/L	-0.8820 ppb	21:56:17
1	Si 251.611†	500.8	83.6	4.4421 ug/L	4.4421 ppb	21:56:17
1	Sn 189.927†	-0.5	-0.4	-0.0518 ug/L	-0.0518 ppb	21:56:17
1	Ti 334.940†	616.8	36.5	0.0630 ug/L	0.0630 ppb	21:55:56
1	Tl 190.801†	-46.6	-10.5	-4.7484 ug/L	-4.7484 ppb	21:56:17
1	U 409.014†	135.7	13.7	0.6817 ug/L	0.6817 ppb	21:55:56
1	V 292.402†	-304.3	-28.3	-0.2506 ug/L	-0.2506 ppb	21:55:56
1	Zn 213.857†	1278.2	809.3	9.8766 ug/L	9.8766 ppb	21:56:17
1	SiO2†	497.7	91.3	10.309 ug/L	10.309 ppb	21:57:39
2	Sc Radial	35330.0	35330.0	100 %		21:54:58
2	Y RADIAL	24634.3	24634.3	100.3 %		21:54:58
2	Al 396.153Radial†	-34.0	9.2	4.2363 ug/L	4.2363 ppb	21:54:58
2	Ca 317.933Radial†	75.0	1.2	0.8296 ug/L	0.8296 ppb	21:55:18
2	Fe 238.204 Radial†	38.8	-3.4	-37.358 ug/L	-37.358 ppb	21:55:18
2	K 766.490 Radial†	2351.8	1327.5	229.77 ug/L	229.77 ppb	21:54:58
2	Mg 279.077 IEC†	-0.2	-3.3	-52.135 ug/L	-52.135 ppb	21:55:18
2	Na 589.592 Radial†	787.7	632.3	48.207 ug/L	48.207 ppb	21:54:58
2	Sr 421.552†	302.0	-51.4	-0.1205 ug/L	-0.1205 ppb	21:54:58
2	Sc 361.383	979979.2	979979.2	101.21 %		21:56:22
2	Y 371.029	680310.5	680310.5	101.07 %		21:56:22
2	Ag 328.068†	100.7	29.7	0.1987 ug/L	0.1987 ppb	21:56:27
2	As 188.979†	-18.4	0.2	0.1090 ug/L	0.1090 ppb	21:56:48
2	B 249.677†	767.2	507.2	15.449 ug/L	15.449 ppb	21:56:48
2	Ba 233.527†	-15.9	2.0	0.0323 ug/L	0.0323 ppb	21:56:48
2	Be 313.107†	-2943.5	0.7	0.0008 ug/L	0.0008 ppb	21:56:27
2	Cd 226.502†	-97.5	1.5	0.0241 ug/L	0.0241 ppb	21:56:48
2	Co 228.616†	-32.2	-3.7	-0.1099 ug/L	-0.1099 ppb	21:56:48
2	Cr 267.716†	-23.8	14.0	0.2262 ug/L	0.2262 ppb	21:56:48
2	Cu 324.752†	3221.4	-49.9	-0.2803 ug/L	-0.2803 ppb	21:56:27
2	Mn 257.610†	190.1	38.3	0.0842 ug/L	0.0842 ppb	21:56:48
2	Mo 202.031†	22.3	2.6	0.1112 ug/L	0.1112 ppb	21:56:48
2	Ni 231.604†	156.5	-3.8	-0.1210 ug/L	-0.1210 ppb	21:56:48

2	P 214.914†	-143.9	29.9	25.188 ug/L	25.188 ppb	21:56:48
2	Pb 220.353†	81.1	8.7	1.1162 ug/L	1.1162 ppb	21:56:48
2	S 181.975 Axial†	39.1	2.1	2.1445 ug/L	2.1445 ppb	21:56:48
2	Sb 206.836†	29.6	5.0	2.0140 ug/L	2.0140 ppb	21:56:48
2	Se 196.026†	-7.7	-1.0	-0.5312 ug/L	-0.5312 ppb	21:56:48
2	Si 251.611†	492.3	73.3	3.8869 ug/L	3.8869 ppb	21:56:48
2	Sn 189.927†	-3.8	-3.6	-0.4645 ug/L	-0.4645 ppb	21:56:48
2	Ti 334.940†	657.7	74.6	0.1321 ug/L	0.1321 ppb	21:56:27
2	Tl 190.801†	-36.8	-0.7	-0.3161 ug/L	-0.3161 ppb	21:56:48
2	U 409.014†	86.0	-36.0	-1.7698 ug/L	-1.7698 ppb	21:56:27
2	V 292.402†	-297.6	-20.4	-0.1873 ug/L	-0.1873 ppb	21:56:27
2	Zn 213.857†	1281.1	807.1	9.9056 ug/L	9.9056 ppb	21:56:48
2	SiO2†	510.2	101.6	11.479 ug/L	11.479 ppb	21:57:59
3	Sc Radial	35394.1	35394.1	100 %		21:55:23
3	Y RADIAL	24638.6	24638.6	100.3 %		21:55:23
3	Al 396.153Radial†	-42.5	0.8	0.3469 ug/L	0.3469 ppb	21:55:23
3	Ca 317.933Radial†	71.1	-2.8	-1.9027 ug/L	-1.9027 ppb	21:55:43
3	Fe 238.204 Radial†	39.1	-3.1	-34.445 ug/L	-34.445 ppb	21:55:43
3	K 766.490 Radial†	2507.3	1478.1	255.84 ug/L	255.84 ppb	21:55:23
3	Mg 279.077 IEC†	0.1	-3.0	-47.988 ug/L	-47.988 ppb	21:55:43
3	Na 589.592 Radial†	900.4	743.1	56.661 ug/L	56.661 ppb	21:55:23
3	Sr 421.552†	329.5	-24.5	-0.0573 ug/L	-0.0573 ppb	21:55:23
3	Sc 361.383	974965.2	974965.2	100.70 %		21:56:53
3	Y 371.029	677412.1	677412.1	100.64 %		21:56:53
3	Ag 328.068†	105.1	34.5	0.2336 ug/L	0.2336 ppb	21:56:58
3	As 188.979†	-18.0	0.5	0.2533 ug/L	0.2533 ppb	21:57:19
3	B 249.677†	754.8	498.8	15.191 ug/L	15.191 ppb	21:57:19
3	Ba 233.527†	-23.1	-5.3	-0.0846 ug/L	-0.0846 ppb	21:57:19
3	Be 313.107†	-3031.3	-101.4	-0.0525 ug/L	-0.0525 ppb	21:56:58
3	Cd 226.502†	-94.3	4.2	0.0635 ug/L	0.0635 ppb	21:57:19
3	Co 228.616†	-29.2	-0.9	-0.0266 ug/L	-0.0266 ppb	21:57:19
3	Cr 267.716†	-31.6	6.2	0.0994 ug/L	0.0994 ppb	21:57:19
3	Cu 324.752†	3239.6	-15.4	-0.0885 ug/L	-0.0885 ppb	21:56:58
3	Mn 257.610†	187.2	36.5	0.0801 ug/L	0.0801 ppb	21:57:19
3	Mo 202.031†	22.6	3.1	0.1314 ug/L	0.1314 ppb	21:57:19
3	Ni 231.604†	154.9	-4.6	-0.1459 ug/L	-0.1459 ppb	21:57:19
3	P 214.914†	-146.2	26.8	22.627 ug/L	22.627 ppb	21:57:19
3	Pb 220.353†	74.6	2.7	0.3457 ug/L	0.3457 ppb	21:57:19
3	S 181.975 Axial†	38.0	1.2	1.2394 ug/L	1.2394 ppb	21:57:19
3	Sb 206.836†	26.7	2.3	0.9215 ug/L	0.9215 ppb	21:57:19
3	Se 196.026†	-7.7	-1.1	-0.5476 ug/L	-0.5476 ppb	21:57:19
3	Si 251.611†	496.9	80.3	4.2602 ug/L	4.2602 ppb	21:57:19
3	Sn 189.927†	10.2	10.2	1.3201 ug/L	1.3201 ppb	21:57:19
3	Ti 334.940†	638.8	59.1	0.1045 ug/L	0.1045 ppb	21:56:58
3	Tl 190.801†	-36.9	-0.9	-0.4070 ug/L	-0.4070 ppb	21:57:19
3	U 409.014†	93.3	-28.3	-1.3905 ug/L	-1.3905 ppb	21:56:58
3	V 292.402†	-302.1	-26.4	-0.2414 ug/L	-0.2414 ppb	21:56:58
3	Zn 213.857†	1237.4	770.2	9.4516 ug/L	9.4516 ppb	21:57:19
3	SiO2†	505.1	99.2	11.205 ug/L	11.205 ppb	21:58:20

Mean Data: 1201318158|626724|1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	977009.0	100.91	%	0.272				0.27%
Sc Radial	35439.7	101	%	0.4				0.39%
Y 371.029	678567.1	100.82	%	0.228				0.23%
Y RADIAL	24677.4	100.5	%	0.29				0.29%
Ag 328.068†	20.9	0.1360	ug/L	0.13982	0.1360	ppb	0.13982	102.79%
Al 396.153Radial†	30.4	13.967	ug/L	20.3163	13.967	ppb	20.3163	145.46%
As 188.979†	-1.4	-0.6775	ug/L	1.48893	-0.6775	ppb	1.48893	219.78%
B 249.677†	511.6	15.580	ug/L	0.4686	15.580	ppb	0.4686	3.01%
Ba 233.527†	-0.6	-0.0090	ug/L	0.06561	-0.0090	ppb	0.06561	731.75%
Be 313.107†	-50.4	-0.0259	ug/L	0.02663	-0.0259	ppb	0.02663	102.64%
Ca 317.933Radial†	-3.7	-2.5444	ug/L	3.73637	-2.5444	ppb	3.73637	146.85%
Cd 226.502†	2.1	0.0338	ug/L	0.02622	0.0338	ppb	0.02622	77.53%
Co 228.616†	-3.2	-0.0945	ug/L	0.06168	-0.0945	ppb	0.06168	65.28%
Cr 267.716†	11.7	0.1896	ug/L	0.07862	0.1896	ppb	0.07862	41.46%
Cu 324.752†	-24.5	-0.1395	ug/L	0.12344	-0.1395	ppb	0.12344	88.46%
Fe 238.204 Radial†	-3.2	-35.682	ug/L	1.5056	-35.682	ppb	1.5056	4.22%
K 766.490 Radial†	6592.2	1141.0	ug/L	1555.81	1141.0	ppb	1555.81	136.35%

Mg 279.077 IEC†	-2.7	-43.742 ug/L	11.1404	-43.742 ppb	11.1404	25.47%
Mn 257.610†	38.4	0.0842 ug/L	0.00404	0.0842 ppb	0.00404	4.80%
Mo 202.031†	1.8	0.0765 ug/L	0.07818	0.0765 ppb	0.07818	102.15%
Na 589.592 Radial†	6488.3	494.81 ug/L	766.236	494.81 ppb	766.236	154.85%
Ni 231.604†	-3.1	-0.0979 ug/L	0.06280	-0.0979 ppb	0.06280	64.14%
P 214.914†	26.8	22.584 ug/L	2.6252	22.584 ppb	2.6252	11.62%
Pb 220.353†	6.4	0.8223 ug/L	0.41645	0.8223 ppb	0.41645	50.64%
S 181.975 Axial†	1.2	1.2046 ug/L	0.95780	1.2046 ppb	0.95780	79.51%
Sb 206.836†	3.1	1.2326 ug/L	0.68140	1.2326 ppb	0.68140	55.28%
Se 196.026†	-1.3	-0.6536 ug/L	0.19798	-0.6536 ppb	0.19798	30.29%
Si 251.611†	79.1	4.1964 ug/L	0.28308	4.1964 ppb	0.28308	6.75%
Sn 189.927†	2.1	0.2680 ug/L	0.93427	0.2680 ppb	0.93427	348.66%
Sr 421.552†	464.2	1.0881 ug/L	2.03885	1.0881 ppb	2.03885	187.38%
Ti 334.940†	56.8	0.0999 ug/L	0.03478	0.0999 ppb	0.03478	34.83%
Tl 190.801†	-4.0	-1.8238 ug/L	2.53319	-1.8238 ppb	2.53319	138.89%
U 409.014†	-16.9	-0.8262 ug/L	1.31955	-0.8262 ppb	1.31955	159.71%
V 292.402†	-25.0	-0.2264 ug/L	0.03421	-0.2264 ppb	0.03421	15.11%
Zn 213.857†	795.6	9.7446 ug/L	0.25418	9.7446 ppb	0.25418	2.61%
SiO2†	97.4	10.998 ug/L	0.6116	10.998 ppb	0.6116	5.56%

Sequence No.: 4
 Sample ID: 1201318159|626724|1
 Analyst: JWJ
 Initial Sample Wt:
 Dilution:

Autosampler Location: 54
 Date Collected: 4/23/2007 22:00:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Replicate Data: 1201318159|626724|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	34971.2	34971.2	99.2 %		22:02:14
1	Y RADIAL	24078.6	24078.6	98.06 %		22:02:14
1	Al 396.153Radial†	10559.6	10689.7	4897.6 ug/L	4897.6 ppb	22:02:14
1	Ca 317.933Radial†	7329.9	7316.6	5011.6 ug/L	5011.6 ppb	22:02:14
1	Fe 238.204 Radial†	481.9	443.8	4911.5 ug/L	4911.5 ppb	22:02:34
1	K 766.490 Radial†	31618.6	30859.4	5341.7 ug/L	5341.7 ppb	22:02:14
1	Mg 279.077 IEC†	309.3	308.8	4945.7 ug/L	4945.7 ppb	22:02:34
1	Na 589.592 Radial†	66742.8	67138.6	5122.5 ug/L	5122.5 ppb	22:02:14
1	Sr 421.552†	209364.6	210736.1	493.80 ug/L	493.80 ppb	22:02:14
1	Sc 361.383	968330.0	968330.0	100.01 %		22:03:34
1	Y 371.029	664294.2	664294.2	98.695 %		22:03:34
1	Ag 328.068†	68803.9	68726.6	494.45 ug/L	494.45 ppb	22:03:39
1	As 188.979†	985.3	1003.6	480.74 ug/L	480.74 ppb	22:04:00
1	B 249.677†	16653.7	16401.1	493.58 ug/L	493.58 ppb	22:03:39
1	Ba 233.527†	31183.1	31197.3	504.06 ug/L	504.06 ppb	22:03:39
1	Be 313.107†	950935.9	953741.5	498.00 ug/L	498.00 ppb	22:03:34
1	Cd 226.502†	33658.7	33752.9	485.51 ug/L	485.51 ppb	22:03:39
1	Co 228.616†	16914.4	16940.7	500.72 ug/L	500.72 ppb	22:03:39
1	Cr 267.716†	30221.8	30256.0	492.63 ug/L	492.63 ppb	22:03:39
1	Cu 324.752†	92346.2	89103.6	494.66 ug/L	494.66 ppb	22:03:39
1	Mn 257.610†	218752.4	218579.1	493.07 ug/L	493.07 ppb	22:03:39
1	Mo 202.031†	11412.6	11392.0	490.66 ug/L	490.66 ppb	22:04:00
1	Ni 231.604†	15910.0	15749.8	495.56 ug/L	495.56 ppb	22:03:39
1	P 214.914†	421.8	593.8	489.45 ug/L	489.45 ppb	22:04:00
1	Pb 220.353†	3926.2	3854.3	494.39 ug/L	494.39 ppb	22:04:00
1	S 181.975 Axial†	4807.9	4770.9	4821.8 ug/L	4821.8 ppb	22:04:00
1	Sb 206.836†	1306.6	1282.2	516.46 ug/L	516.46 ppb	22:04:00
1	Se 196.026†	1061.6	1068.1	486.84 ug/L	486.84 ppb	22:04:00
1	Si 251.611†	92540.8	92117.6	4877.6 ug/L	4877.6 ppb	22:03:39
1	Sn 189.927†	3824.7	3824.4	494.81 ug/L	494.81 ppb	22:04:00
1	Ti 334.940†	281262.7	280656.9	493.51 ug/L	493.51 ppb	22:03:39
1	Tl 190.801†	1054.2	1089.8	496.01 ug/L	496.01 ppb	22:04:00
1	U 409.014†	10608.1	10486.0	512.42 ug/L	512.42 ppb	22:03:39
1	V 292.402†	54455.5	54723.2	479.16 ug/L	479.16 ppb	22:03:39
1	Zn 213.857†	40899.5	40436.5	493.63 ug/L	493.63 ppb	22:03:39
1	SiO2†	93154.9	92742.4	10474 ug/L	10474 ppb	22:05:09
2	Sc Radial	35128.8	35128.8	99.6 %		22:02:40
2	Y RADIAL	24242.6	24242.6	98.73 %		22:02:40
2	Al 396.153Radial†	10627.1	10709.7	4906.7 ug/L	4906.7 ppb	22:02:40
2	Ca 317.933Radial†	7342.7	7296.4	4997.7 ug/L	4997.7 ppb	22:02:40
2	Fe 238.204 Radial†	485.9	445.7	4932.6 ug/L	4932.6 ppb	22:03:00
2	K 766.490 Radial†	31610.7	30708.5	5315.6 ug/L	5315.6 ppb	22:02:40
2	Mg 279.077 IEC†	311.3	309.4	4955.0 ug/L	4955.0 ppb	22:03:00
2	Na 589.592 Radial†	66922.2	67017.0	5113.2 ug/L	5113.2 ppb	22:02:40
2	Sr 421.552†	209920.0	210347.1	492.89 ug/L	492.89 ppb	22:02:40
2	Sc 361.383	963447.3	963447.3	99.507 %		22:04:06
2	Y 371.029	661344.7	661344.7	98.257 %		22:04:06
2	Ag 328.068†	69010.6	69283.0	498.45 ug/L	498.45 ppb	22:04:11
2	As 188.979†	999.4	1022.7	489.88 ug/L	489.88 ppb	22:04:32
2	B 249.677†	16761.1	16593.5	499.40 ug/L	499.40 ppb	22:04:11
2	Ba 233.527†	31370.8	31544.0	509.66 ug/L	509.66 ppb	22:04:11
2	Be 313.107†	949060.1	956675.2	499.54 ug/L	499.54 ppb	22:04:06
2	Cd 226.502†	33809.2	34074.7	490.14 ug/L	490.14 ppb	22:04:11
2	Co 228.616†	16951.5	17063.7	504.35 ug/L	504.35 ppb	22:04:11
2	Cr 267.716†	30288.8	30476.5	496.22 ug/L	496.22 ppb	22:04:11
2	Cu 324.752†	92578.8	89805.3	498.55 ug/L	498.55 ppb	22:04:11
2	Mn 257.610†	219451.3	220390.0	497.16 ug/L	497.16 ppb	22:04:11
2	Mo 202.031†	11396.8	11433.9	492.47 ug/L	492.47 ppb	22:04:32
2	Ni 231.604†	15974.2	15895.0	500.13 ug/L	500.13 ppb	22:04:11

2	P 214.914†	420.7	594.8	490.26 ug/L	490.26 ppb	22:04:32
2	Pb 220.353†	3927.0	3875.1	497.05 ug/L	497.05 ppb	22:04:32
2	S 181.975 Axial†	4797.1	4784.4	4835.5 ug/L	4835.5 ppb	22:04:32
2	Sb 206.836†	1308.8	1291.0	520.02 ug/L	520.02 ppb	22:04:32
2	Se 196.026†	1036.6	1048.3	478.07 ug/L	478.07 ppb	22:04:32
2	Si 251.611†	92773.0	92819.9	4914.9 ug/L	4914.9 ppb	22:04:11
2	Sn 189.927†	3816.8	3835.9	496.29 ug/L	496.29 ppb	22:04:32
2	Ti 334.940†	282355.5	283180.4	497.94 ug/L	497.94 ppb	22:04:11
2	Tl 190.801†	1059.3	1100.3	500.79 ug/L	500.79 ppb	22:04:32
2	U 409.014†	10642.6	10574.4	516.75 ug/L	516.75 ppb	22:04:11
2	V 292.402†	54600.0	55144.4	482.91 ug/L	482.91 ppb	22:04:11
2	Zn 213.857†	40929.6	40673.9	496.54 ug/L	496.54 ppb	22:04:11
2	SiO2†	93454.0	93515.0	10561 ug/L	10561 ppb	22:05:15
3	Sc Radial	34905.7	34905.7	99.0 %		22:03:05
3	Y RADIAL	24080.1	24080.1	98.07 %		22:03:05
3	Al 396.153Radial†	10604.2	10754.7	4927.5 ug/L	4927.5 ppb	22:03:05
3	Ca 317.933Radial†	7305.1	7305.4	5003.9 ug/L	5003.9 ppb	22:03:05
3	Fe 238.204 Radial†	481.4	444.2	4915.9 ug/L	4915.9 ppb	22:03:25
3	K 766.490 Radial†	31511.8	30811.4	5333.4 ug/L	5333.4 ppb	22:03:05
3	Mg 279.077 IEC†	307.3	307.3	4922.0 ug/L	4922.0 ppb	22:03:25
3	Na 589.592 Radial†	66647.6	67168.7	5124.8 ug/L	5124.8 ppb	22:03:05
3	Sr 421.552†	208891.1	210654.1	493.61 ug/L	493.61 ppb	22:03:05
3	Sc 361.383	967603.8	967603.8	99.936 %		22:04:38
3	Y 371.029	665890.2	665890.2	98.932 %		22:04:38
3	Ag 328.068†	68686.6	68660.8	493.98 ug/L	493.98 ppb	22:04:43
3	As 188.979†	997.1	1016.1	486.73 ug/L	486.73 ppb	22:05:04
3	B 249.677†	16639.1	16399.0	493.51 ug/L	493.51 ppb	22:04:43
3	Ba 233.527†	31214.8	31252.4	504.95 ug/L	504.95 ppb	22:04:43
3	Be 313.107†	950730.5	954249.6	498.27 ug/L	498.27 ppb	22:04:38
3	Cd 226.502†	33789.0	33908.6	487.75 ug/L	487.75 ppb	22:04:43
3	Co 228.616†	16877.2	16916.2	499.99 ug/L	499.99 ppb	22:04:43
3	Cr 267.716†	30213.0	30269.9	492.86 ug/L	492.86 ppb	22:04:43
3	Cu 324.752†	92123.9	88950.4	493.81 ug/L	493.81 ppb	22:04:43
3	Mn 257.610†	218333.3	218323.9	492.50 ug/L	492.50 ppb	22:04:43
3	Mo 202.031†	11360.1	11348.0	488.77 ug/L	488.77 ppb	22:05:04
3	Ni 231.604†	15864.6	15716.4	494.51 ug/L	494.51 ppb	22:04:43
3	P 214.914†	427.0	599.3	494.09 ug/L	494.09 ppb	22:05:04
3	Pb 220.353†	3906.6	3837.7	492.26 ug/L	492.26 ppb	22:05:04
3	S 181.975 Axial†	4791.4	4758.0	4808.7 ug/L	4808.7 ppb	22:05:04
3	Sb 206.836†	1303.6	1280.2	515.66 ug/L	515.66 ppb	22:05:04
3	Se 196.026†	1058.6	1065.8	485.86 ug/L	485.86 ppb	22:05:04
3	Si 251.611†	92301.7	91947.8	4868.7 ug/L	4868.7 ppb	22:04:43
3	Sn 189.927†	3795.9	3798.5	491.46 ug/L	491.46 ppb	22:05:04
3	Ti 334.940†	281221.8	280827.1	493.81 ug/L	493.81 ppb	22:04:43
3	Tl 190.801†	1058.7	1095.0	498.40 ug/L	498.40 ppb	22:05:04
3	U 409.014†	10594.9	10480.7	512.16 ug/L	512.16 ppb	22:04:43
3	V 292.402†	54389.7	54698.2	478.99 ug/L	478.99 ppb	22:04:43
3	Zn 213.857†	40855.5	40423.1	493.47 ug/L	493.47 ppb	22:04:43
3	SiO2†	92614.3	92271.3	10420 ug/L	10420 ppb	22:05:20

Mean Data: 1201318159|626724|1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	966460.4	99.818 %	0.2721			0.27%
Sc Radial	35001.9	99.3 %	0.33			0.33%
Y 371.029	663843.0	98.628 %	0.3426			0.35%
Y RADIAL	24133.8	98.29 %	0.384			0.39%
Ag 328.068†	68890.1	495.62 ug/L	2.455	495.62 ppb	2.455	0.50%
Al 396.153Radial†	10718.0	4910.6 ug/L	15.37	4910.6 ppb	15.37	0.31%
As 188.979†	1014.1	485.78 ug/L	4.639	485.78 ppb	4.639	0.95%
B 249.677†	16464.5	495.50 ug/L	3.379	495.50 ppb	3.379	0.68%
Ba 233.527†	31331.3	506.22 ug/L	3.009	506.22 ppb	3.009	0.59%
Be 313.107†	954888.8	498.61 ug/L	0.823	498.61 ppb	0.823	0.17%
Ca 317.933Radial†	7306.2	5004.4 ug/L	6.93	5004.4 ppb	6.93	0.14%
Cd 226.502†	33912.1	487.80 ug/L	2.316	487.80 ppb	2.316	0.47%
Co 228.616†	16973.5	501.68 ug/L	2.335	501.68 ppb	2.335	0.47%
Cr 267.716†	30334.2	493.90 ug/L	2.011	493.90 ppb	2.011	0.41%
Cu 324.752†	89286.4	495.67 ug/L	2.530	495.67 ppb	2.530	0.51%
Fe 238.204 Radial†	444.5	4920.0 ug/L	11.12	4920.0 ppb	11.12	0.23%
K 766.490 Radial†	30793.1	5330.2 ug/L	13.34	5330.2 ppb	13.34	0.25%

Mg 279.077 IEC†	308.5	4940.9 ug/L	17.01	4940.9 ppb	17.01	0.34%
Mn 257.610†	219097.7	494.24 ug/L	2.540	494.24 ppb	2.540	0.51%
Mo 202.031†	11391.3	490.63 ug/L	1.849	490.63 ppb	1.849	0.38%
Na 589.592 Radial†	67108.1	5120.2 ug/L	6.11	5120.2 ppb	6.11	0.12%
Ni 231.604†	15787.0	496.74 ug/L	2.988	496.74 ppb	2.988	0.60%
P 214.914†	596.0	491.27 ug/L	2.483	491.27 ppb	2.483	0.51%
Pb 220.353†	3855.7	494.57 ug/L	2.398	494.57 ppb	2.398	0.48%
S 181.975 Axial†	4771.1	4822.0 ug/L	13.36	4822.0 ppb	13.36	0.28%
Sb 206.836†	1284.5	517.38 ug/L	2.322	517.38 ppb	2.322	0.45%
Se 196.026†	1060.7	483.59 ug/L	4.804	483.59 ppb	4.804	0.99%
Si 251.611†	92295.1	4887.0 ug/L	24.51	4887.0 ppb	24.51	0.50%
Sn 189.927†	3819.6	494.19 ug/L	2.478	494.19 ppb	2.478	0.50%
Sr 421.552†	210579.1	493.44 ug/L	0.480	493.44 ppb	0.480	0.10%
Ti 334.940†	281554.8	495.09 ug/L	2.477	495.09 ppb	2.477	0.50%
Tl 190.801†	1095.0	498.40 ug/L	2.387	498.40 ppb	2.387	0.48%
U 409.014†	10513.7	513.78 ug/L	2.580	513.78 ppb	2.580	0.50%
V 292.402†	54855.3	480.35 ug/L	2.215	480.35 ppb	2.215	0.46%
Zn 213.857†	40511.2	494.55 ug/L	1.723	494.55 ppb	1.723	0.35%
SiO2†	92842.9	10485 ug/L	70.9	10485 ppb	70.9	0.68%

Sequence No.: 11

Autosampler Location: 7

Sample ID: CCV

Date Collected: 4/23/2007 22:49:38

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	34712.2	34712.2	98.4 %		22:51:25
1	Y RADIAL	23978.4	23978.4	97.65 %		22:51:25
1	Al 396.153Radial†	10614.9	10825.3	4959.8 ug/L	4959.8 ppb	22:51:25
1	Ca 317.933Radial†	7315.9	7357.6	5039.7 ug/L	5039.7 ppb	22:51:25
1	Fe 238.204 Radial†	488.0	453.6	5019.9 ug/L	5019.9 ppb	22:51:45
1	K 766.490 Radial†	31168.3	30639.9	5303.7 ug/L	5303.7 ppb	22:51:25
1	Mg 279.077 IEC†	318.8	320.7	5136.3 ug/L	5136.3 ppb	22:51:45
1	Na 589.592 Radial†	130318.0	132218.0	10086 ug/L	10086 ppb	22:51:25
1	Sr 421.552†	210142.0	213101.0	499.35 ug/L	499.35 ppb	22:51:25
1	Sc 361.383	966886.9	966886.9	99.862 %		22:52:46
1	Y 371.029	663664.0	663664.0	98.602 %		22:52:46
1	Ag 328.068†	69632.3	69658.9	501.12 ug/L	501.12 ppb	22:52:53
1	As 188.979†	1018.0	1037.8	497.06 ug/L	497.06 ppb	22:53:14
1	B 249.677†	16537.4	16309.5	490.72 ug/L	490.72 ppb	22:52:53
1	Ba 233.527†	30655.6	30715.6	496.29 ug/L	496.29 ppb	22:52:53
1	Be 313.107†	951719.5	955945.4	499.14 ug/L	499.14 ppb	22:52:46
1	Cd 226.502†	34387.9	34533.3	496.73 ug/L	496.73 ppb	22:52:53
1	Co 228.616†	16898.4	16949.8	501.00 ug/L	501.00 ppb	22:52:53
1	Cr 267.716†	30435.5	30515.1	496.84 ug/L	496.84 ppb	22:52:53
1	Cu 324.752†	92147.1	89042.0	494.32 ug/L	494.32 ppb	22:52:53
1	Mn 257.610†	218608.9	218762.0	493.49 ug/L	493.49 ppb	22:52:53
1	Mo 202.031†	11506.5	11503.0	495.45 ug/L	495.45 ppb	22:53:14
1	Ni 231.604†	15960.4	15824.0	497.91 ug/L	497.91 ppb	22:52:53
1	P 214.914†	2778.5	2954.4	2475.8 ug/L	2475.8 ppb	22:53:14
1	Pb 220.353†	3960.5	3894.6	499.56 ug/L	499.56 ppb	22:53:14
1	S 181.975 Axial†	992.4	957.3	966.49 ug/L	966.49 ppb	22:53:14
1	Sb 206.836†	1261.4	1239.0	499.00 ug/L	499.00 ppb	22:53:14
1	Se 196.026†	1105.3	1113.4	507.27 ug/L	507.27 ppb	22:53:14
1	Si 251.611†	47101.0	46753.0	2469.0 ug/L	2469.0 ppb	22:52:53
1	Sn 189.927†	3812.4	3817.9	493.97 ug/L	493.97 ppb	22:53:14
1	Ti 334.940†	277659.7	277468.6	487.91 ug/L	487.91 ppb	22:52:53
1	Tl 190.801†	1066.7	1103.8	502.32 ug/L	502.32 ppb	22:53:14
1	U 409.014†	10566.8	10460.5	511.12 ug/L	511.12 ppb	22:52:53
1	V 292.402†	54386.0	54734.9	479.11 ug/L	479.11 ppb	22:52:53
1	Zn 213.857†	41344.7	40943.2	499.83 ug/L	499.83 ppb	22:52:53
1	SiO2†	47539.6	47202.9	5330.8 ug/L	5330.8 ppb	22:54:23
2	Sc Radial	35158.7	35158.7	99.7 %		22:51:51
2	Y RADIAL	24263.6	24263.6	98.81 %		22:51:51
2	Al 396.153Radial†	10752.9	10826.8	4960.7 ug/L	4960.7 ppb	22:51:51
2	Ca 317.933Radial†	7417.4	7365.0	5044.7 ug/L	5044.7 ppb	22:51:51
2	Fe 238.204 Radial†	488.7	448.0	4958.5 ug/L	4958.5 ppb	22:52:11
2	K 766.490 Radial†	31480.3	30550.8	5288.3 ug/L	5288.3 ppb	22:51:51
2	Mg 279.077 IEC†	317.8	315.6	5054.4 ug/L	5054.4 ppb	22:52:11
2	Na 589.592 Radial†	131678.7	131901.7	10061 ug/L	10061 ppb	22:51:51
2	Sr 421.552†	212191.5	212445.9	497.81 ug/L	497.81 ppb	22:51:51
2	Sc 361.383	976772.7	976772.7	100.88 %		22:53:20
2	Y 371.029	670588.5	670588.5	99.630 %		22:53:20
2	Ag 328.068†	69573.6	68894.9	495.63 ug/L	495.63 ppb	22:53:26
2	As 188.979†	1019.0	1028.5	492.61 ug/L	492.61 ppb	22:53:46
2	B 249.677†	16555.8	16160.1	486.23 ug/L	486.23 ppb	22:53:26
2	Ba 233.527†	30718.4	30467.2	492.27 ug/L	492.27 ppb	22:53:26
2	Be 313.107†	963017.3	957498.7	499.93 ug/L	499.93 ppb	22:53:20
2	Cd 226.502†	34577.3	34372.6	494.42 ug/L	494.42 ppb	22:53:26
2	Co 228.616†	16969.5	16849.1	498.03 ug/L	498.03 ppb	22:53:26
2	Cr 267.716†	30516.3	30286.8	493.12 ug/L	493.12 ppb	22:53:26
2	Cu 324.752†	91720.0	87684.8	486.78 ug/L	486.78 ppb	22:53:26
2	Mn 257.610†	219226.1	217158.1	489.88 ug/L	489.88 ppb	22:53:26
2	Mo 202.031†	11497.0	11377.0	490.02 ug/L	490.02 ppb	22:53:46
2	Ni 231.604†	16081.4	15782.2	496.60 ug/L	496.60 ppb	22:53:26

2	P 214.914†	2762.7	2910.5	2439.1 ug/L	2439.1 ppb	22:53:46
2	Pb 220.353†	3942.9	3837.0	492.18 ug/L	492.18 ppb	22:53:46
2	S 181.975 Axial†	999.5	954.3	963.41 ug/L	963.41 ppb	22:53:46
2	Sb 206.836†	1262.4	1227.2	494.24 ug/L	494.24 ppb	22:53:46
2	Se 196.026†	1110.5	1107.3	504.42 ug/L	504.42 ppb	22:53:46
2	Si 251.611†	47104.6	46279.2	2444.0 ug/L	2444.0 ppb	22:53:26
2	Sn 189.927†	3801.8	3768.7	487.61 ug/L	487.61 ppb	22:53:46
2	Ti 334.940†	277560.1	274555.9	482.80 ug/L	482.80 ppb	22:53:26
2	Tl 190.801†	1061.0	1087.4	494.83 ug/L	494.83 ppb	22:53:46
2	U 409.014†	10407.2	10195.2	498.07 ug/L	498.07 ppb	22:53:26
2	V 292.402†	54580.6	54376.6	476.03 ug/L	476.03 ppb	22:53:26
2	Zn 213.857†	41458.0	40636.6	496.10 ug/L	496.10 ppb	22:53:26
2	SiO2†	47409.7	46592.4	5261.8 ug/L	5261.8 ppb	22:54:29
3	Sc Radial	35173.9	35173.9	99.8 %		22:52:18
3	Y RADIAL	24322.6	24322.6	99.05 %		22:52:18
3	Al 396.153Radial†	10654.9	10723.9	4913.4 ug/L	4913.4 ppb	22:52:18
3	Ca 317.933Radial†	7833.0	7778.4	5327.8 ug/L	5327.8 ppb	22:52:18
3	Fe 238.204 Radial†	490.7	449.8	4977.9 ug/L	4977.9 ppb	22:52:38
3	K 766.490 Radial†	31312.1	30368.5	5256.8 ug/L	5256.8 ppb	22:52:18
3	Mg 279.077 IEC†	313.6	311.3	4985.9 ug/L	4985.9 ppb	22:52:38
3	Na 589.592 Radial†	132110.0	132276.9	10090 ug/L	10090 ppb	22:52:18
3	Sr 421.552†	210605.2	210763.8	493.86 ug/L	493.86 ppb	22:52:18
3	Sc 361.383	981334.6	981334.6	101.35 %		22:53:52
3	Y 371.029	673783.0	673783.0	100.11 %		22:53:52
3	Ag 328.068†	70195.7	69188.1	497.72 ug/L	497.72 ppb	22:53:58
3	As 188.979†	1016.7	1021.5	489.26 ug/L	489.26 ppb	22:54:18
3	B 249.677†	16724.3	16250.1	488.95 ug/L	488.95 ppb	22:53:58
3	Ba 233.527†	30977.6	30581.4	494.12 ug/L	494.12 ppb	22:53:58
3	Be 313.107†	967222.7	957210.4	499.79 ug/L	499.79 ppb	22:53:52
3	Cd 226.502†	34794.0	34427.1	495.21 ug/L	495.21 ppb	22:53:58
3	Co 228.616†	17074.2	16874.2	498.76 ug/L	498.76 ppb	22:53:58
3	Cr 267.716†	30732.1	30359.1	494.30 ug/L	494.30 ppb	22:53:58
3	Cu 324.752†	92776.5	88304.5	490.23 ug/L	490.23 ppb	22:53:58
3	Mn 257.610†	220632.0	217535.0	490.73 ug/L	490.73 ppb	22:53:58
3	Mo 202.031†	11522.8	11349.4	488.84 ug/L	488.84 ppb	22:54:18
3	Ni 231.604†	16197.6	15822.7	497.87 ug/L	497.87 ppb	22:53:58
3	P 214.914†	2770.2	2905.2	2434.5 ug/L	2434.5 ppb	22:54:18
3	Pb 220.353†	3945.2	3821.1	490.13 ug/L	490.13 ppb	22:54:18
3	S 181.975 Axial†	1004.5	954.6	963.70 ug/L	963.70 ppb	22:54:18
3	Sb 206.836†	1270.3	1229.1	495.05 ug/L	495.05 ppb	22:54:18
3	Se 196.026†	1096.8	1088.7	496.18 ug/L	496.18 ppb	22:54:18
3	Si 251.611†	47544.9	46496.6	2455.5 ug/L	2455.5 ppb	22:53:58
3	Sn 189.927†	3803.1	3752.4	485.52 ug/L	485.52 ppb	22:54:18
3	Ti 334.940†	280210.8	275892.2	485.18 ug/L	485.18 ppb	22:53:58
3	Tl 190.801†	1062.7	1084.2	493.42 ug/L	493.42 ppb	22:54:18
3	U 409.014†	10599.2	10336.6	504.99 ug/L	504.99 ppb	22:53:58
3	V 292.402†	54985.6	54524.6	477.41 ug/L	477.41 ppb	22:53:58
3	Zn 213.857†	41870.2	40852.3	498.73 ug/L	498.73 ppb	22:53:58
3	SiO2†	47339.9	46305.1	5229.4 ug/L	5229.4 ppb	22:54:34

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	974998.1	100.70 %	0.763			0.76%
Sc Radial	35014.9	99.3 %	0.74			0.75%
Y 371.029	669345.2	99.446 %	0.7685			0.77%
Y RADIAL	24188.2	98.51 %	0.750			0.76%
Ag 328.068†	69247.3	498.16 ug/L	2.767	498.16 ppb	2.767	0.56%
QC value within limits for Ag 328.068 Recovery = 99.63%						
Al 396.153Radial†	10792.0	4944.6 ug/L	27.06	4944.6 ppb	27.06	0.55%
QC value within limits for Al 396.153Radial Recovery = 98.89%						
As 188.979†	1029.3	492.98 ug/L	3.910	492.98 ppb	3.910	0.79%
QC value within limits for As 188.979 Recovery = 98.60%						
B 249.677†	16239.9	488.63 ug/L	2.262	488.63 ppb	2.262	0.46%
QC value within limits for B 249.677 Recovery = 97.73%						
Ba 233.527†	30588.1	494.23 ug/L	2.008	494.23 ppb	2.008	0.41%
QC value within limits for Ba 233.527 Recovery = 98.85%						
Be 313.107†	956884.8	499.62 ug/L	0.423	499.62 ppb	0.423	0.08%
QC value within limits for Be 313.107 Recovery = 99.92%						
Ca 317.933Radial†	7500.3	5137.4 ug/L	164.89	5137.4 ppb	164.89	3.21%

	QC value within limits for Ca 317.933Radial	Recovery = 102.75%				
Cd 226.502†	34444.3	495.45 ug/L	1.176	495.45 ppb	1.176	0.24%
	QC value within limits for Cd 226.502	Recovery = 99.09%				
Co 228.616†	16891.1	499.26 ug/L	1.551	499.26 ppb	1.551	0.31%
	QC value within limits for Co 228.616	Recovery = 99.85%				
Cr 267.716†	30387.0	494.75 ug/L	1.902	494.75 ppb	1.902	0.38%
	QC value within limits for Cr 267.716	Recovery = 98.95%				
Cu 324.752†	88343.8	490.44 ug/L	3.773	490.44 ppb	3.773	0.77%
	QC value within limits for Cu 324.752	Recovery = 98.09%				
Fe 238.204 Radial†	450.5	4985.4 ug/L	31.38	4985.4 ppb	31.38	0.63%
	QC value within limits for Fe 238.204 Radial	Recovery = 99.71%				
K 766.490 Radial†	30519.8	5282.9 ug/L	23.93	5282.9 ppb	23.93	0.45%
	QC value within limits for K 766.490 Radial	Recovery = 105.66%				
Mg 279.077 IEC†	315.9	5058.9 ug/L	75.28	5058.9 ppb	75.28	1.49%
	QC value within limits for Mg 279.077 IEC	Recovery = 101.18%				
Mn 257.610†	217818.4	491.37 ug/L	1.891	491.37 ppb	1.891	0.38%
	QC value within limits for Mn 257.610	Recovery = 98.27%				
Mo 202.031†	11409.8	491.43 ug/L	3.526	491.43 ppb	3.526	0.72%
	QC value within limits for Mo 202.031	Recovery = 98.29%				
Na 589.592 Radial†	132132.2	10079 ug/L	15.4	10079 ppb	15.4	0.15%
	QC value within limits for Na 589.592 Radial	Recovery = 100.79%				
Ni 231.604†	15809.7	497.46 ug/L	0.748	497.46 ppb	0.748	0.15%
	QC value within limits for Ni 231.604	Recovery = 99.49%				
P 214.914†	2923.4	2449.8 ug/L	22.63	2449.8 ppb	22.63	0.92%
	QC value within limits for P 214.914	Recovery = 97.99%				
Pb 220.353†	3850.9	493.96 ug/L	4.958	493.96 ppb	4.958	1.00%
	QC value within limits for Pb 220.353	Recovery = 98.79%				
S 181.975 Axial†	955.4	964.54 ug/L	1.703	964.54 ppb	1.703	0.18%
	QC value within limits for S 181.975 Axial	Recovery = 96.45%				
Sb 206.836†	1231.8	496.10 ug/L	2.543	496.10 ppb	2.543	0.51%
	QC value within limits for Sb 206.836	Recovery = 99.22%				
Se 196.026†	1103.2	502.62 ug/L	5.758	502.62 ppb	5.758	1.15%
	QC value within limits for Se 196.026	Recovery = 100.52%				
Si 251.611†	46509.6	2456.2 ug/L	12.53	2456.2 ppb	12.53	0.51%
	QC value within limits for Si 251.611	Recovery = 98.25%				
Sn 189.927†	3779.6	489.03 ug/L	4.401	489.03 ppb	4.401	0.90%
	QC value within limits for Sn 189.927	Recovery = 97.81%				
Sr 421.552†	212103.5	497.00 ug/L	2.831	497.00 ppb	2.831	0.57%
	QC value within limits for Sr 421.552	Recovery = 99.40%				
Ti 334.940†	275972.2	485.29 ug/L	2.558	485.29 ppb	2.558	0.53%
	QC value within limits for Ti 334.940	Recovery = 97.06%				
Tl 190.801†	1091.8	496.86 ug/L	4.779	496.86 ppb	4.779	0.96%
	QC value within limits for Tl 190.801	Recovery = 99.37%				
U 409.014†	10330.8	504.73 ug/L	6.534	504.73 ppb	6.534	1.29%
	QC value within limits for U 409.014	Recovery = 100.95%				
V 292.402†	54545.4	477.52 ug/L	1.544	477.52 ppb	1.544	0.32%
	QC value within limits for V 292.402	Recovery = 95.50%				
Zn 213.857†	40810.7	498.22 ug/L	1.918	498.22 ppb	1.918	0.38%
	QC value within limits for Zn 213.857	Recovery = 99.64%				
SiO2†	46700.1	5274.0 ug/L	51.78	5274.0 ppb	51.78	0.98%
	QC value within limits for SiO2	Recovery = 98.63%				

All analyte(s) passed QC.

Sequence No.: 12

Autosampler Location: 8

Sample ID: CCB

Date Collected: 4/23/2007 22:56:46

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	33997.2	33997.2	96.4 %		22:58:32
1	Y RADIAL	23682.2	23682.2	96.45 %		22:58:32
1	Al 396.153Radial†	-57.5	-16.5	-7.6126 ug/L	-7.6126 ppb	22:58:32
1	Ca 317.933Radial†	70.1	-0.9	-0.5886 ug/L	-0.5886 ppb	22:58:52
1	Fe 238.204 Radial†	41.6	1.1	11.845 ug/L	11.845 ppb	22:58:52
1	K 766.490 Radial†	2072.6	1130.0	195.58 ug/L	195.58 ppb	22:58:32
1	Mg 279.077 IEC†	1.5	-1.5	-23.589 ug/L	-23.589 ppb	22:58:52
1	Na 589.592 Radial†	853.6	731.5	55.801 ug/L	55.801 ppb	22:58:32
1	Sr 421.552†	383.0	44.5	0.1042 ug/L	0.1042 ppb	22:58:32
1	Sc 361.383	954102.4	954102.4	98.541 %		22:59:51
1	Y 371.029	662868.1	662868.1	98.483 %		22:59:51
1	Ag 328.068†	113.9	45.8	0.3334 ug/L	0.3334 ppb	22:59:56
1	As 188.979†	-22.8	-4.7	-2.2488 ug/L	-2.2488 ppb	23:00:16
1	B 249.677†	504.9	261.6	7.9473 ug/L	7.9473 ppb	23:00:16
1	Ba 233.527†	-11.3	6.2	0.1010 ug/L	0.1010 ppb	23:00:16
1	Be 313.107†	-2809.8	57.6	0.0308 ug/L	0.0308 ppb	22:59:56
1	Cd 226.502†	-92.6	3.9	0.0563 ug/L	0.0563 ppb	23:00:16
1	Co 228.616†	-21.6	6.1	0.1816 ug/L	0.1816 ppb	23:00:16
1	Cr 267.716†	-19.8	17.4	0.2847 ug/L	0.2847 ppb	23:00:16
1	Cu 324.752†	3180.9	-4.6	-0.0247 ug/L	-0.0247 ppb	22:59:56
1	Mn 257.610†	194.9	48.3	0.1097 ug/L	0.1097 ppb	23:00:16
1	Mo 202.031†	32.0	13.1	0.5636 ug/L	0.5636 ppb	23:00:16
1	Ni 231.604†	152.9	-3.3	-0.1052 ug/L	-0.1052 ppb	23:00:16
1	P 214.914†	-156.2	13.5	11.367 ug/L	11.367 ppb	23:00:16
1	Pb 220.353†	73.1	2.7	0.3492 ug/L	0.3492 ppb	23:00:16
1	S 181.975 Axial†	38.9	2.9	2.9626 ug/L	2.9626 ppb	23:00:16
1	Sb 206.836†	28.7	4.9	1.9854 ug/L	1.9854 ppb	23:00:16
1	Se 196.026†	-11.9	-5.5	-2.4344 ug/L	-2.4344 ppb	23:00:16
1	Si 251.611†	458.4	52.1	2.7509 ug/L	2.7509 ppb	23:00:16
1	Sn 189.927†	-1.3	-1.2	-0.1578 ug/L	-0.1578 ppb	23:00:16
1	Ti 334.940†	739.3	174.9	0.3058 ug/L	0.3058 ppb	22:59:56
1	Tl 190.801†	-33.8	1.4	0.6563 ug/L	0.6563 ppb	23:00:16
1	U 409.014†	174.7	56.3	2.7783 ug/L	2.7783 ppb	22:59:56
1	V 292.402†	-213.2	57.2	0.5031 ug/L	0.5031 ppb	22:59:56
1	Zn 213.857†	795.3	348.4	4.2701 ug/L	4.2701 ppb	23:00:16
1	SiO2†	485.4	90.1	10.178 ug/L	10.178 ppb	23:01:39
2	Sc Radial	34744.4	34744.4	98.5 %		22:58:57
2	Y RADIAL	24120.1	24120.1	98.23 %		22:58:57
2	Al 396.153Radial†	-44.7	-2.2	-1.0376 ug/L	-1.0376 ppb	22:58:57
2	Ca 317.933Radial†	76.9	4.4	3.0360 ug/L	3.0360 ppb	22:59:17
2	Fe 238.204 Radial†	38.4	-3.1	-34.135 ug/L	-34.135 ppb	22:59:17
2	K 766.490 Radial†	2028.0	1038.5	179.74 ug/L	179.74 ppb	22:58:57
2	Mg 279.077 IEC†	2.3	-0.7	-10.881 ug/L	-10.881 ppb	22:59:17
2	Na 589.592 Radial†	793.9	651.8	49.725 ug/L	49.725 ppb	22:58:57
2	Sr 421.552†	370.3	23.0	0.0538 ug/L	0.0538 ppb	22:58:57
2	Sc 361.383	964138.9	964138.9	99.578 %		23:00:21
2	Y 371.029	669902.4	669902.4	99.528 %		23:00:21
2	Ag 328.068†	64.5	-5.0	-0.0470 ug/L	-0.0470 ppb	23:00:27
2	As 188.979†	-16.7	1.6	0.7593 ug/L	0.7593 ppb	23:00:47
2	B 249.677†	490.4	241.7	7.3707 ug/L	7.3707 ppb	23:00:47
2	Ba 233.527†	-13.7	3.9	0.0643 ug/L	0.0643 ppb	23:00:47
2	Be 313.107†	-2838.0	58.9	0.0310 ug/L	0.0310 ppb	23:00:27
2	Cd 226.502†	-96.4	1.0	0.0191 ug/L	0.0191 ppb	23:00:47
2	Co 228.616†	-22.8	5.2	0.1542 ug/L	0.1542 ppb	23:00:47
2	Cr 267.716†	-30.1	7.3	0.1197 ug/L	0.1197 ppb	23:00:47
2	Cu 324.752†	3267.1	48.3	0.2652 ug/L	0.2652 ppb	23:00:27
2	Mn 257.610†	198.3	49.7	0.1082 ug/L	0.1082 ppb	23:00:47
2	Mo 202.031†	19.5	0.2	0.0058 ug/L	0.0058 ppb	23:00:47
2	Ni 231.604†	173.0	15.3	0.4816 ug/L	0.4816 ppb	23:00:47

2	P 214.914†	-153.0	18.3	15.470 ug/L	15.470 ppb	23:00:47
2	Pb 220.353†	79.4	8.3	1.0641 ug/L	1.0641 ppb	23:00:47
2	S 181.975 Axial†	35.9	-0.5	-0.4898 ug/L	-0.4898 ppb	23:00:47
2	Sb 206.836†	21.9	-2.3	-0.9108 ug/L	-0.9108 ppb	23:00:47
2	Se 196.026†	-5.9	0.6	0.2006 ug/L	0.2006 ppb	23:00:47
2	Si 251.611†	462.3	51.1	2.7119 ug/L	2.7119 ppb	23:00:47
2	Sn 189.927†	-0.0	0.1	0.0144 ug/L	0.0144 ppb	23:00:47
2	Ti 334.940†	635.3	62.7	0.1094 ug/L	0.1094 ppb	23:00:27
2	Tl 190.801†	-29.1	6.5	2.9511 ug/L	2.9511 ppb	23:00:47
2	U 409.014†	163.8	43.5	2.1550 ug/L	2.1550 ppb	23:00:27
2	V 292.402†	-271.0	1.5	0.0196 ug/L	0.0196 ppb	23:00:27
2	Zn 213.857†	812.2	357.0	4.3811 ug/L	4.3811 ppb	23:00:47
2	SiO2†	472.8	72.3	8.1690 ug/L	8.1690 ppb	23:01:59
3	Sc Radial	34873.8	34873.8	98.9 %		22:59:22
3	Y RADIAL	24348.0	24348.0	99.16 %		22:59:22
3	Al 396.153Radial†	-51.1	-8.5	-3.9382 ug/L	-3.9382 ppb	22:59:22
3	Ca 317.933Radial†	73.4	0.6	0.3981 ug/L	0.3981 ppb	22:59:43
3	Fe 238.204 Radial†	40.8	-0.8	-9.3013 ug/L	-9.3013 ppb	22:59:43
3	K 766.490 Radial†	2046.2	1049.2	181.60 ug/L	181.60 ppb	22:59:22
3	Mg 279.077 IEC†	2.0	-1.0	-16.097 ug/L	-16.097 ppb	22:59:43
3	Na 589.592 Radial†	725.2	579.3	44.204 ug/L	44.204 ppb	22:59:22
3	Sr 421.552†	402.3	54.0	0.1265 ug/L	0.1265 ppb	22:59:22
3	Sc 361.383	964404.1	964404.1	99.605 %		23:00:53
3	Y 371.029	669255.2	669255.2	99.432 %		23:00:53
3	Ag 328.068†	116.2	46.8	0.3304 ug/L	0.3304 ppb	23:00:58
3	As 188.979†	-18.3	-0.0	-0.0191 ug/L	-0.0191 ppb	23:01:18
3	B 249.677†	488.2	239.4	7.2850 ug/L	7.2850 ppb	23:01:18
3	Ba 233.527†	-15.6	1.9	0.0320 ug/L	0.0320 ppb	23:01:18
3	Be 313.107†	-2842.7	55.0	0.0290 ug/L	0.0290 ppb	23:00:58
3	Cd 226.502†	-79.5	18.1	0.2627 ug/L	0.2627 ppb	23:01:18
3	Co 228.616†	-20.7	7.3	0.2164 ug/L	0.2164 ppb	23:01:18
3	Cr 267.716†	-29.2	8.2	0.1347 ug/L	0.1347 ppb	23:01:18
3	Cu 324.752†	3219.6	-0.2	-0.0021 ug/L	-0.0021 ppb	23:00:58
3	Mn 257.610†	212.6	64.0	0.1426 ug/L	0.1426 ppb	23:01:18
3	Mo 202.031†	22.8	3.5	0.1484 ug/L	0.1484 ppb	23:01:18
3	Ni 231.604†	157.4	-0.4	-0.0141 ug/L	-0.0141 ppb	23:01:18
3	P 214.914†	-157.2	14.2	11.960 ug/L	11.960 ppb	23:01:18
3	Pb 220.353†	80.8	9.7	1.2447 ug/L	1.2447 ppb	23:01:18
3	S 181.975 Axial†	36.6	0.3	0.2645 ug/L	0.2645 ppb	23:01:18
3	Sb 206.836†	22.4	-1.8	-0.7149 ug/L	-0.7149 ppb	23:01:18
3	Se 196.026†	-13.8	-7.3	-3.2848 ug/L	-3.2848 ppb	23:01:18
3	Si 251.611†	467.3	56.0	2.9705 ug/L	2.9705 ppb	23:01:18
3	Sn 189.927†	4.9	5.1	0.6589 ug/L	0.6589 ppb	23:01:18
3	Ti 334.940†	645.7	73.0	0.1265 ug/L	0.1265 ppb	23:00:58
3	Tl 190.801†	-33.6	2.0	0.8966 ug/L	0.8966 ppb	23:01:18
3	U 409.014†	187.8	67.5	3.3346 ug/L	3.3346 ppb	23:00:58
3	V 292.402†	-258.8	13.8	0.1265 ug/L	0.1265 ppb	23:00:58
3	Zn 213.857†	809.1	353.7	4.3374 ug/L	4.3374 ppb	23:01:18
3	SiO2†	464.4	63.8	7.2054 ug/L	7.2054 ppb	23:02:20

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	960881.8	99.242 %	0.6065			0.61%
Sc Radial	34538.4	98.0 %	1.34			1.37%
Y 371.029	667341.9	99.148 %	0.5776			0.58%
Y RADIAL	24050.1	97.94 %	1.378			1.41%
Ag 328.068†	29.2	0.2056 ug/L	0.21875	0.2056 ppb	0.21875	106.38%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-9.1	-4.1961 ug/L	3.29511	-4.1961 ppb	3.29511	78.53%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.1	-0.5029 ug/L	1.56135	-0.5029 ppb	1.56135	310.49%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	247.6	7.5343 ug/L	0.36022	7.5343 ppb	0.36022	4.78%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.0	0.0658 ug/L	0.03456	0.0658 ppb	0.03456	52.54%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	57.2	0.0303 ug/L	0.00109	0.0303 ppb	0.00109	3.61%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.4	0.9485 ug/L	1.87395	0.9485 ppb	1.87395	197.57%

Cd	226.502†	7.7	0.1127 ug/L	0.13120	0.1127 ppb	0.13120	116.42%
	QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Co	228.616†	6.2	0.1841 ug/L	0.03119	0.1841 ppb	0.03119	16.95%
	QC value within limits for Cd 226.502 Recovery = Not calculated						
Cr	267.716†	11.0	0.1797 ug/L	0.09123	0.1797 ppb	0.09123	50.77%
	QC value within limits for Co 228.616 Recovery = Not calculated						
Cu	324.752†	14.5	0.0795 ug/L	0.16121	0.0795 ppb	0.16121	202.85%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Fe	238.204 Radial†	-1.0	-10.531 ug/L	23.0147	-10.531 ppb	23.0147	218.55%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
K	766.490 Radial†	1072.5	185.64 ug/L	8.658	185.64 ppb	8.658	4.66%
	QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
Mg	279.077 IEC†	-1.1	-16.855 ug/L	6.3881	-16.855 ppb	6.3881	37.90%
	QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated						
Mn	257.610†	54.0	0.1202 ug/L	0.01947	0.1202 ppb	0.01947	16.20%
	QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mo	202.031†	5.6	0.2393 ug/L	0.28980	0.2393 ppb	0.28980	121.10%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Na	589.592 Radial†	654.2	49.910 ug/L	5.8011	49.910 ppb	5.8011	11.62%
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni	231.604†	3.8	0.1207 ug/L	0.31578	0.1207 ppb	0.31578	261.54%
	QC value within limits for Na 589.592 Radial Recovery = Not calculated						
P	214.914†	15.4	12.932 ug/L	2.2174	12.932 ppb	2.2174	17.15%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb	220.353†	6.9	0.8860 ug/L	0.47357	0.8860 ppb	0.47357	53.45%
	QC value within limits for P 214.914 Recovery = Not calculated						
S	181.975 Axial†	0.9	0.9124 ug/L	1.81507	0.9124 ppb	1.81507	198.92%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	0.3	0.1199 ug/L	1.61854	0.1199 ppb	1.61854	>999.9%
	QC value within limits for S 181.975 Axial Recovery = Not calculated						
Se	196.026†	-4.1	-1.8395 ug/L	1.81725	-1.8395 ppb	1.81725	98.79%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Si	251.611†	53.1	2.8111 ug/L	0.13941	2.8111 ppb	0.13941	4.96%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	1.3	0.1718 ug/L	0.43048	0.1718 ppb	0.43048	250.51%
	QC value within limits for Si 251.611 Recovery = Not calculated						
Sr	421.552†	40.5	0.0948 ug/L	0.03726	0.0948 ppb	0.03726	39.29%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti	334.940†	103.6	0.1806 ug/L	0.10881	0.1806 ppb	0.10881	60.26%
	QC value within limits for Sr 421.552 Recovery = Not calculated						
Tl	190.801†	3.3	1.5013 ug/L	1.26126	1.5013 ppb	1.26126	84.01%
	QC value within limits for Ti 334.940 Recovery = Not calculated						
U	409.014†	55.8	2.7560 ug/L	0.59009	2.7560 ppb	0.59009	21.41%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	24.2	0.2164 ug/L	0.25396	0.2164 ppb	0.25396	117.36%
	QC value within limits for U 409.014 Recovery = Not calculated						
Zn	213.857†	353.0	4.3295 ug/L	0.05596	4.3295 ppb	0.05596	1.29%
	QC value within limits for V 292.402 Recovery = Not calculated						
SiO2†		75.4	8.5176 ug/L	1.51689	8.5176 ppb	1.51689	17.81%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
	QC Failed. Continue with analysis.						

=====
Analysis Begun

Start Time: 4/23/2007 23:09:53

Plasma On Time: 4/23/2007 08:46:28

Logged In Analyst: optimal

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1030502Autosampler Model: AS-93plus

Sample Information File: C:\pe\optimal\Sample Information\042307.SIF

Batch ID:

Results Data Set: 042307

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

=====
Sequence No.: 1

Autosampler Location: 55

Sample ID: 184428001|626724|5

Date Collected: 4/23/2007 23:09:54

Analyst: JWJ

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 184428001|626724|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	33612.5	33612.5	95.3 %		23:11:43
1	Y RADIAL	23270.9	23270.9	94.77 %		23:11:43
1	Al 396.153Radial†	6.9	50.4	23.163 ug/L	23.163 ppb	23:11:43
1	Ca 317.933Radial†	27069.5	28322.0	19394 ug/L	19394 ppb	23:11:43
1	Fe 238.204 Radial†	37.6	-2.7	-29.367 ug/L	-29.367 ppb	23:12:03
1	K 766.490 Radial†	3199.5	2336.6	406.49 ug/L	406.49 ppb	23:11:43
1	Mg 279.077 IEC†	242.8	251.6	4023.8 ug/L	4023.8 ppb	23:12:03
1	Na 589.592 Radial†	201735.6	211465.0	16126 ug/L	16126 ppb	23:11:38
1	Sr 421.552†	18331.6	18876.9	43.659 ug/L	43.659 ppb	23:11:43
1	Sc 361.383	932390.1	932390.1	96.299 %		23:13:12
1	Y 371.029	641511.6	641511.6	95.310 %		23:13:12
1	Ag 328.068†	22.0	-47.0	-1.5683 ug/L	-1.5683 ppb	23:13:12
1	As 188.979†	-2.9	15.3	6.4163 ug/L	6.4163 ppb	23:13:33
1	B 249.677†	692.9	468.8	14.276 ug/L	14.276 ppb	23:13:33
1	Ba 233.527†	3746.8	3908.4	63.030 ug/L	63.030 ppb	23:13:33
1	Be 313.107†	-2982.1	-187.8	-0.1014 ug/L	-0.1014 ppb	23:13:12
1	Cd 226.502†	-44.5	51.7	0.7564 ug/L	0.7564 ppb	23:13:33
1	Co 228.616†	-31.4	-4.5	-0.1017 ug/L	-0.1017 ppb	23:13:33
1	Cr 267.716†	-14.6	22.3	0.3735 ug/L	0.3735 ppb	23:13:33
1	Cu 324.752†	3334.9	230.5	1.2765 ug/L	1.2765 ppb	23:13:12
1	Mn 257.610†	506.1	376.1	0.7595 ug/L	0.7595 ppb	23:13:33
1	Mo 202.031†	10.5	-8.5	-0.3652 ug/L	-0.3652 ppb	23:13:33
1	Ni 231.604†	177.5	25.9	0.7843 ug/L	0.7843 ppb	23:13:33
1	P 214.914†	-163.7	2.1	1.8689 ug/L	1.8689 ppb	23:13:33
1	Pb 220.353†	71.5	2.8	0.3457 ug/L	0.3457 ppb	23:13:33
1	S 181.975 Axial†	2042.7	2084.7	2105.4 ug/L	2105.4 ppb	23:13:33
1	Sb 206.836†	28.2	5.0	1.4598 ug/L	1.4598 ppb	23:13:33
1	Se 196.026†	-10.9	-4.7	-0.9358 ug/L	-0.9358 ppb	23:13:33
1	Si 251.611†	23558.3	24050.5	1271.7 ug/L	1271.7 ppb	23:13:12
1	Sn 189.927†	-57.1	-59.2	-6.5612 ug/L	-6.5612 ppb	23:13:33
1	Ti 334.940†	-165.2	-746.8	0.9196 ug/L	0.9196 ppb	23:13:12
1	Tl 190.801†	-24.7	10.1	3.7917 ug/L	3.7917 ppb	23:13:33
1	U 409.014†	587.4	489.0	20.670 ug/L	20.670 ppb	23:13:12
1	V 292.402†	-260.6	3.0	0.0819 ug/L	0.0819 ppb	23:13:33
1	Zn 213.857†	824.8	397.9	4.2193 ug/L	4.2193 ppb	23:13:33
1	SiO2†	23624.8	24130.4	2725.1 ug/L	2725.1 ppb	23:14:31
2	Sc Radial	33997.0	33997.0	96.4 %		23:12:14
2	Y RADIAL	23575.1	23575.1	96.01 %		23:12:14
2	Al 396.153Radial†	-2.9	40.2	18.440 ug/L	18.440 ppb	23:12:14
2	Ca 317.933Radial†	27285.1	28224.5	19327 ug/L	19327 ppb	23:12:14
2	Fe 238.204 Radial†	38.7	-2.0	-21.632 ug/L	-21.632 ppb	23:12:34
2	K 766.490 Radial†	3150.0	2247.4	391.03 ug/L	391.03 ppb	23:12:14
2	Mg 279.077 IEC†	244.8	250.9	4012.6 ug/L	4012.6 ppb	23:12:34
2	Na 589.592 Radial†	199750.8	207013.3	15786 ug/L	15786 ppb	23:12:09
2	Sr 421.552†	18575.1	18912.0	43.743 ug/L	43.743 ppb	23:12:14
2	Sc 361.383	931128.9	931128.9	96.169 %		23:13:39
2	Y 371.029	641001.8	641001.8	95.235 %		23:13:39

2	Ag 328.068†	52.8	-14.9	-1.3343 ug/L	-1.3343 ppb	23:13:39
2	As 188.979†	-5.4	12.8	5.1852 ug/L	5.1852 ppb	23:13:59
2	B 249.677†	712.7	490.4	14.926 ug/L	14.926 ppb	23:13:59
2	Ba 233.527†	3736.4	3902.9	62.941 ug/L	62.941 ppb	23:13:59
2	Be 313.107†	-2983.5	-193.4	-0.1051 ug/L	-0.1051 ppb	23:13:39
2	Cd 226.502†	-64.6	30.7	0.4532 ug/L	0.4532 ppb	23:13:59
2	Co 228.616†	-30.7	-3.8	-0.0808 ug/L	-0.0808 ppb	23:13:59
2	Cr 267.716†	-29.2	7.1	0.1255 ug/L	0.1255 ppb	23:13:59
2	Cu 324.752†	3245.0	141.7	0.7840 ug/L	0.7840 ppb	23:13:39
2	Mn 257.610†	503.8	374.4	0.7570 ug/L	0.7570 ppb	23:13:59
2	Mo 202.031†	14.4	-4.4	-0.1886 ug/L	-0.1886 ppb	23:13:59
2	Ni 231.604†	157.0	4.7	0.1178 ug/L	0.1178 ppb	23:13:59
2	P 214.914†	-155.5	10.4	8.8352 ug/L	8.8352 ppb	23:13:59
2	Pb 220.353†	77.1	8.8	1.1082 ug/L	1.1082 ppb	23:13:59
2	S 181.975 Axial†	2024.5	2068.6	2089.1 ug/L	2089.1 ppb	23:13:59
2	Sb 206.836†	27.5	4.3	1.1705 ug/L	1.1705 ppb	23:13:59
2	Se 196.026†	-16.4	-10.5	-3.4798 ug/L	-3.4798 ppb	23:13:59
2	Si 251.611†	23391.2	23909.9	1264.3 ug/L	1264.3 ppb	23:13:39
2	Sn 189.927†	-62.5	-64.9	-7.3033 ug/L	-7.3033 ppb	23:13:59
2	Ti 334.940†	-311.9	-899.6	0.6438 ug/L	0.6438 ppb	23:13:39
2	Tl 190.801†	-27.9	6.7	2.2823 ug/L	2.2823 ppb	23:13:59
2	U 409.014†	568.9	470.6	19.771 ug/L	19.771 ppb	23:13:39
2	V 292.402†	-274.5	-11.8	-0.0589 ug/L	-0.0589 ppb	23:13:59
2	Zn 213.857†	834.9	409.5	4.3648 ug/L	4.3648 ppb	23:13:59
2	SiO2†	23552.7	24088.7	2720.4 ug/L	2720.4 ppb	23:14:36
3	Sc Radial	33756.2	33756.2	95.7 %		23:12:44
3	Y RADIAL	23329.1	23329.1	95.01 %		23:12:44
3	Al 396.153Radial†	-0.2	43.0	19.715 ug/L	19.715 ppb	23:12:44
3	Ca 317.933Radial†	27193.5	28330.8	19400 ug/L	19400 ppb	23:12:44
3	Fe 238.204 Radial†	40.1	-0.2	-2.4185 ug/L	-2.4185 ppb	23:13:04
3	K 766.490 Radial†	3129.2	2249.0	391.31 ug/L	391.31 ppb	23:12:44
3	Mg 279.077 IEC†	247.8	255.8	4091.4 ug/L	4091.4 ppb	23:13:04
3	Na 589.592 Radial†	198135.4	206804.0	15771 ug/L	15771 ppb	23:12:39
3	Sr 421.552†	18377.1	18842.7	43.579 ug/L	43.579 ppb	23:12:44
3	Sc 361.383	931498.9	931498.9	96.207 %		23:14:05
3	Y 371.029	640755.5	640755.5	95.198 %		23:14:05
3	Ag 328.068†	-12.6	-82.9	-1.8164 ug/L	-1.8164 ppb	23:14:05
3	As 188.979†	-7.1	11.0	4.3614 ug/L	4.3614 ppb	23:14:25
3	B 249.677†	706.2	483.3	14.700 ug/L	14.700 ppb	23:14:25
3	Ba 233.527†	3761.4	3927.4	63.335 ug/L	63.335 ppb	23:14:25
3	Be 313.107†	-2952.7	-160.1	-0.0875 ug/L	-0.0875 ppb	23:14:05
3	Cd 226.502†	-76.5	18.3	0.2748 ug/L	0.2748 ppb	23:14:25
3	Co 228.616†	-35.4	-8.7	-0.2255 ug/L	-0.2255 ppb	23:14:25
3	Cr 267.716†	-24.4	12.1	0.2083 ug/L	0.2083 ppb	23:14:25
3	Cu 324.752†	3254.3	150.0	0.8318 ug/L	0.8318 ppb	23:14:05
3	Mn 257.610†	509.8	380.4	0.7704 ug/L	0.7704 ppb	23:14:25
3	Mo 202.031†	18.7	0.0	0.0015 ug/L	0.0015 ppb	23:14:25
3	Ni 231.604†	166.0	14.1	0.4132 ug/L	0.4132 ppb	23:14:25
3	P 214.914†	-157.1	8.7	7.4509 ug/L	7.4509 ppb	23:14:25
3	Pb 220.353†	73.2	4.7	0.5812 ug/L	0.5812 ppb	23:14:25
3	S 181.975 Axial†	2047.3	2091.5	2112.2 ug/L	2112.2 ppb	23:14:25
3	Sb 206.836†	29.8	6.8	2.1440 ug/L	2.1440 ppb	23:14:25
3	Se 196.026†	-15.2	-9.3	-2.8917 ug/L	-2.8917 ppb	23:14:25
3	Si 251.611†	23524.0	24038.3	1271.1 ug/L	1271.1 ppb	23:14:05
3	Sn 189.927†	-63.6	-66.0	-7.4391 ug/L	-7.4391 ppb	23:14:25
3	Ti 334.940†	-244.2	-829.1	0.7749 ug/L	0.7749 ppb	23:14:05
3	Tl 190.801†	-27.5	7.1	2.4703 ug/L	2.4703 ppb	23:14:25
3	U 409.014†	614.4	517.7	22.080 ug/L	22.080 ppb	23:14:05
3	V 292.402†	-263.8	-0.5	0.0389 ug/L	0.0389 ppb	23:14:25
3	Zn 213.857†	831.9	406.1	4.3152 ug/L	4.3152 ppb	23:14:25
3	SiO2†	23515.6	24040.4	2714.9 ug/L	2714.9 ppb	23:14:41

 Mean Data: 184428001|626724|5

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	931672.6	96.225 %	0.0670			0.07%
Sc Radial	33788.6	95.8 %	0.55			0.58%
Y 371.029	641089.7	95.248 %	0.0573			0.06%
Y RADIAL	23391.7	95.26 %	0.658			0.69%
Ag 328.068†	-48.3	-1.5730 ug/L	0.24108	-1.5730 ppb	0.24108	15.33%

Al 396.153Radial†	44.5	20.439 ug/L	2.4437	20.439 ppb	2.4437	11.96%
As 188.979†	13.0	5.3210 ug/L	1.03417	5.3210 ppb	1.03417	19.44%
B 249.677†	480.8	14.634 ug/L	0.3303	14.634 ppb	0.3303	2.26%
Ba 233.527†	3912.9	63.102 ug/L	0.2066	63.102 ppb	0.2066	0.33%
Be 313.107†	-180.4	-0.0980 ug/L	0.00933	-0.0980 ppb	0.00933	9.51%
Ca 317.933Radial†	28292.4	19374 ug/L	40.4	19374 ppb	40.4	0.21%
Cd 226.502†	33.6	0.4948 ug/L	0.24348	0.4948 ppb	0.24348	49.20%
Co 228.616†	-5.7	-0.1360 ug/L	0.07818	-0.1360 ppb	0.07818	57.49%
Cr 267.716†	13.9	0.2358 ug/L	0.12628	0.2358 ppb	0.12628	53.56%
Cu 324.752†	174.1	0.9641 ug/L	0.27160	0.9641 ppb	0.27160	28.17%
Fe 238.204 Radial†	-1.6	-17.806 ug/L	13.8759	-17.806 ppb	13.8759	77.93%
K 766.490 Radial†	2277.6	396.28 ug/L	8.845	396.28 ppb	8.845	2.23%
Mg 279.077 IEC†	252.8	4042.6 ug/L	42.63	4042.6 ppb	42.63	1.05%
Mn 257.610†	376.9	0.7623 ug/L	0.00710	0.7623 ppb	0.00710	0.93%
Mo 202.031†	-4.3	-0.1841 ug/L	0.18342	-0.1841 ppb	0.18342	99.63%
Na 589.592 Radial†	208427.4	15894 ug/L	200.8	15894 ppb	200.8	1.26%
Ni 231.604†	14.9	0.4384 ug/L	0.33394	0.4384 ppb	0.33394	76.17%
P 214.914†	7.1	6.0517 ug/L	3.68794	6.0517 ppb	3.68794	60.94%
Pb 220.353†	5.4	0.6784 ug/L	0.39043	0.6784 ppb	0.39043	57.55%
S 181.975 Axial†	2081.6	2102.2 ug/L	11.88	2102.2 ppb	11.88	0.57%
Sb 206.836†	5.4	1.5914 ug/L	0.49990	1.5914 ppb	0.49990	31.41%
Se 196.026†	-8.2	-2.4358 ug/L	1.33191	-2.4358 ppb	1.33191	54.68%
Si 251.611†	23999.6	1269.0 ug/L	4.13	1269.0 ppb	4.13	0.33%
Sn 189.927†	-63.3	-7.1012 ug/L	0.47256	-7.1012 ppb	0.47256	6.65%
Sr 421.552†	18877.2	43.660 ug/L	0.0824	43.660 ppb	0.0824	0.19%
Ti 334.940†	-825.2	0.7794 ug/L	0.13798	0.7794 ppb	0.13798	17.70%
Tl 190.801†	8.0	2.8481 ug/L	0.82255	2.8481 ppb	0.82255	28.88%
U 409.014†	492.4	20.841 ug/L	1.1637	20.841 ppb	1.1637	5.58%
V 292.402†	-3.1	0.0206 ug/L	0.07216	0.0206 ppb	0.07216	349.52%
Zn 213.857†	404.5	4.2997 ug/L	0.07397	4.2997 ppb	0.07397	1.72%
SiO2†	24086.5	2720.2 ug/L	5.09	2720.2 ppb	5.09	0.19%

Sequence No.: 2
 Sample ID: 184428002|626724|5
 Analyst: JWJ
 Initial Sample Wt:
 Dilution:

Autosampler Location: 56
 Date Collected: 4/23/2007 23:16:51
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 184428002|626724|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	34504.2	34504.2	97.9 %		23:18:36
1	Y RADIAL	23794.4	23794.4	96.90 %		23:18:36
1	Al 396.153Radial†	0.9	44.0	20.199 ug/L	20.199 ppb	23:18:36
1	Ca 317.933Radial†	30432.1	31024.5	21244 ug/L	21244 ppb	23:18:36
1	Fe 238.204 Radial†	42.6	1.5	16.349 ug/L	16.349 ppb	23:18:56
1	K 766.490 Radial†	4247.6	3321.0	577.06 ug/L	577.06 ppb	23:18:36
1	Mg 279.077 IEC†	245.1	247.4	3957.1 ug/L	3957.1 ppb	23:18:56
1	Na 589.592 Radial†	77634.8	79179.9	6037.4 ug/L	6037.4 ppb	23:18:36
1	Sr 421.552†	20215.4	20305.0	46.950 ug/L	46.950 ppb	23:18:36
1	Sc 361.383	958836.7	958836.7	99.030 %		23:19:54
1	Y 371.029	661498.9	661498.9	98.280 %		23:19:54
1	Ag 328.068†	23.2	-46.4	-1.6658 ug/L	-1.6658 ppb	23:20:00
1	As 188.979†	-8.7	9.6	3.5976 ug/L	3.5976 ppb	23:20:20
1	B 249.677†	565.9	320.7	9.7414 ug/L	9.7414 ppb	23:20:20
1	Ba 233.527†	3486.4	3538.2	57.057 ug/L	57.057 ppb	23:20:20
1	Be 313.107†	-2975.6	-95.8	-0.0542 ug/L	-0.0542 ppb	23:20:00
1	Cd 226.502†	-77.3	19.8	0.2903 ug/L	0.2903 ppb	23:20:20
1	Co 228.616†	-27.3	0.5	0.0463 ug/L	0.0463 ppb	23:20:20
1	Cr 267.716†	-55.7	-18.7	-0.2976 ug/L	-0.2976 ppb	23:20:20
1	Cu 324.752†	3306.6	106.4	0.5915 ug/L	0.5915 ppb	23:20:00
1	Mn 257.610†	2807.3	2685.3	5.9746 ug/L	5.9746 ppb	23:20:20
1	Mo 202.031†	25.4	6.3	0.2700 ug/L	0.2700 ppb	23:20:20
1	Ni 231.604†	168.1	11.2	0.3255 ug/L	0.3255 ppb	23:20:20
1	P 214.914†	-164.5	5.9	4.9678 ug/L	4.9678 ppb	23:20:20
1	Pb 220.353†	76.2	5.5	0.6940 ug/L	0.6940 ppb	23:20:20
1	S 181.975 Axial†	214.7	180.3	179.87 ug/L	179.87 ppb	23:20:20
1	Sb 206.836†	26.9	2.9	0.5493 ug/L	0.5493 ppb	23:20:20
1	Se 196.026†	-26.0	-19.7	-7.4015 ug/L	-7.4015 ppb	23:20:20
1	Si 251.611†	31200.9	31093.2	1645.1 ug/L	1645.1 ppb	23:20:00
1	Sn 189.927†	-59.4	-59.9	-6.5493 ug/L	-6.5493 ppb	23:20:20
1	Ti 334.940†	-298.1	-876.3	0.9107 ug/L	0.9107 ppb	23:20:00
1	Tl 190.801†	-25.9	9.5	3.4915 ug/L	3.4915 ppb	23:20:20
1	U 409.014†	453.8	337.3	12.812 ug/L	12.812 ppb	23:20:00
1	V 292.402†	-279.8	-9.0	-0.0615 ug/L	-0.0615 ppb	23:20:20
1	Zn 213.857†	908.8	459.1	4.9175 ug/L	4.9175 ppb	23:20:20
1	SiO2†	31250.4	31154.0	3518.3 ug/L	3518.3 ppb	23:21:28
2	Sc Radial	35210.8	35210.8	99.9 %		23:19:01
2	Y RADIAL	24282.6	24282.6	98.89 %		23:19:01
2	Al 396.153Radial†	-31.9	11.2	5.1307 ug/L	5.1307 ppb	23:19:01
2	Ca 317.933Radial†	30657.0	30625.6	20971 ug/L	20971 ppb	23:19:01
2	Fe 238.204 Radial†	41.6	-0.4	-4.7041 ug/L	-4.7041 ppb	23:19:21
2	K 766.490 Radial†	4188.3	3174.5	551.68 ug/L	551.68 ppb	23:19:01
2	Mg 279.077 IEC†	248.8	246.1	3936.2 ug/L	3936.2 ppb	23:19:21
2	Na 589.592 Radial†	78325.7	78279.5	5968.8 ug/L	5968.8 ppb	23:19:01
2	Sr 421.552†	20334.6	20009.8	46.267 ug/L	46.267 ppb	23:19:01
2	Sc 361.383	958260.0	958260.0	98.971 %		23:20:26
2	Y 371.029	661088.0	661088.0	98.219 %		23:20:26
2	Ag 328.068†	51.5	-17.8	-1.4510 ug/L	-1.4510 ppb	23:20:31
2	As 188.979†	-6.1	12.2	4.8516 ug/L	4.8516 ppb	23:20:51
2	B 249.677†	581.3	336.6	10.241 ug/L	10.241 ppb	23:20:51
2	Ba 233.527†	3481.1	3534.9	57.005 ug/L	57.005 ppb	23:20:51
2	Be 313.107†	-2988.4	-110.5	-0.0615 ug/L	-0.0615 ppb	23:20:31
2	Cd 226.502†	-61.6	35.6	0.5220 ug/L	0.5220 ppb	23:20:51
2	Co 228.616†	-32.7	-5.0	-0.1181 ug/L	-0.1181 ppb	23:20:51
2	Cr 267.716†	-46.1	-9.0	-0.1380 ug/L	-0.1380 ppb	23:20:51
2	Cu 324.752†	3335.8	137.9	0.7647 ug/L	0.7647 ppb	23:20:31
2	Mn 257.610†	2740.6	2619.6	5.8237 ug/L	5.8237 ppb	23:20:51
2	Mo 202.031†	17.8	-1.4	-0.0598 ug/L	-0.0598 ppb	23:20:51
2	Ni 231.604†	168.0	11.2	0.3256 ug/L	0.3256 ppb	23:20:51

2	P 214.914†	-159.7	10.6	8.9885 ug/L	8.9885 ppb	23:20:51
2	Pb 220.353†	77.5	6.9	0.8634 ug/L	0.8634 ppb	23:20:51
2	S 181.975 Axial†	216.4	182.2	181.80 ug/L	181.80 ppb	23:20:51
2	Sb 206.836†	28.0	4.1	1.0230 ug/L	1.0230 ppb	23:20:51
2	Se 196.026†	-20.6	-14.3	-5.0589 ug/L	-5.0589 ppb	23:20:51
2	Si 251.611†	31616.7	31532.3	1668.5 ug/L	1668.5 ppb	23:20:31
2	Sn 189.927†	-66.7	-67.2	-7.5172 ug/L	-7.5172 ppb	23:20:51
2	Ti 334.940†	-227.5	-805.2	1.0021 ug/L	1.0021 ppb	23:20:31
2	Tl 190.801†	-19.0	16.6	6.6746 ug/L	6.6746 ppb	23:20:51
2	U 409.014†	523.0	407.5	16.331 ug/L	16.331 ppb	23:20:31
2	V 292.402†	-268.6	2.3	0.0572 ug/L	0.0572 ppb	23:20:51
2	Zn 213.857†	874.4	424.8	4.5077 ug/L	4.5077 ppb	23:20:51
2	SiO2†	31407.4	31331.6	3538.4 ug/L	3538.4 ppb	23:21:33
3	Sc Radial	35467.6	35467.6	101 %		23:19:27
3	Y RADIAL	24490.2	24490.2	99.74 %		23:19:27
3	Al 396.153Radial†	-15.9	27.3	12.508 ug/L	12.508 ppb	23:19:27
3	Ca 317.933Radial†	30748.5	30494.3	20881 ug/L	20881 ppb	23:19:27
3	Fe 238.204 Radial†	43.8	1.5	16.157 ug/L	16.157 ppb	23:19:47
3	K 766.490 Radial†	4259.7	3215.1	558.69 ug/L	558.69 ppb	23:19:27
3	Mg 279.077 IEC†	249.6	245.0	3919.0 ug/L	3919.0 ppb	23:19:47
3	Na 589.592 Radial†	78939.1	78321.5	5972.0 ug/L	5972.0 ppb	23:19:27
3	Sr 421.552†	20543.5	20070.1	46.411 ug/L	46.411 ppb	23:19:27
3	Sc 361.383	959472.3	959472.3	99.096 %		23:20:57
3	Y 371.029	662030.9	662030.9	98.359 %		23:20:57
3	Ag 328.068†	32.5	-37.0	-1.5765 ug/L	-1.5765 ppb	23:21:02
3	As 188.979†	-3.1	15.2	6.2879 ug/L	6.2879 ppb	23:21:22
3	B 249.677†	575.3	329.8	10.020 ug/L	10.020 ppb	23:21:22
3	Ba 233.527†	3487.3	3536.7	57.034 ug/L	57.034 ppb	23:21:22
3	Be 313.107†	-2948.3	-66.2	-0.0387 ug/L	-0.0387 ppb	23:21:02
3	Cd 226.502†	-74.1	23.1	0.3405 ug/L	0.3405 ppb	23:21:22
3	Co 228.616†	-31.3	-3.5	-0.0749 ug/L	-0.0749 ppb	23:21:22
3	Cr 267.716†	-34.7	2.5	0.0494 ug/L	0.0494 ppb	23:21:22
3	Cu 324.752†	3287.5	84.9	0.4725 ug/L	0.4725 ppb	23:21:02
3	Mn 257.610†	2756.4	2632.0	5.8535 ug/L	5.8535 ppb	23:21:22
3	Mo 202.031†	18.3	-0.9	-0.0376 ug/L	-0.0376 ppb	23:21:22
3	Ni 231.604†	162.1	5.1	0.1320 ug/L	0.1320 ppb	23:21:22
3	P 214.914†	-159.0	11.6	9.7385 ug/L	9.7385 ppb	23:21:22
3	Pb 220.353†	68.8	-2.0	-0.2727 ug/L	-0.2727 ppb	23:21:22
3	S 181.975 Axial†	209.7	175.1	174.64 ug/L	174.64 ppb	23:21:22
3	Sb 206.836†	33.2	9.3	3.1363 ug/L	3.1363 ppb	23:21:22
3	Se 196.026†	-18.2	-11.9	-3.9399 ug/L	-3.9399 ppb	23:21:22
3	Si 251.611†	31098.3	30968.8	1638.6 ug/L	1638.6 ppb	23:21:02
3	Sn 189.927†	-55.9	-56.3	-6.1076 ug/L	-6.1076 ppb	23:21:22
3	Ti 334.940†	-281.2	-859.0	0.8959 ug/L	0.8959 ppb	23:21:02
3	Tl 190.801†	-19.7	15.8	6.3525 ug/L	6.3525 ppb	23:21:22
3	U 409.014†	560.1	444.2	18.157 ug/L	18.157 ppb	23:21:02
3	V 292.402†	-273.0	-1.8	0.0207 ug/L	0.0207 ppb	23:21:22
3	Zn 213.857†	859.7	408.9	4.3132 ug/L	4.3132 ppb	23:21:22
3	SiO2†	31353.2	31236.8	3527.7 ug/L	3527.7 ppb	23:21:38

Mean Data: 184428002|626724|5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	958856.3	99.032	%	0.0626				0.06%
Sc Radial	35060.9	99.4	%	1.41				1.42%
Y 371.029	661539.2	98.286	%	0.0702				0.07%
Y RADIAL	24189.1	98.51	%	1.455				1.48%
Ag 328.068†	-33.7	-1.5644	ug/L	0.10787	-1.5644	ppb	0.10787	6.90%
Al 396.153Radial†	27.5	12.613	ug/L	7.5347	12.613	ppb	7.5347	59.74%
As 188.979†	12.4	4.9124	ug/L	1.34620	4.9124	ppb	1.34620	27.40%
B 249.677†	329.0	10.001	ug/L	0.2503	10.001	ppb	0.2503	2.50%
Ba 233.527†	3536.6	57.032	ug/L	0.0261	57.032	ppb	0.0261	0.05%
Be 313.107†	-90.8	-0.0515	ug/L	0.01165	-0.0515	ppb	0.01165	22.63%
Ca 317.933Radial†	30714.8	21032	ug/L	189.1	21032	ppb	189.1	0.90%
Cd 226.502†	26.2	0.3843	ug/L	0.12188	0.3843	ppb	0.12188	31.72%
Co 228.616†	-2.7	-0.0489	ug/L	0.08519	-0.0489	ppb	0.08519	174.22%
Cr 267.716†	-8.4	-0.1287	ug/L	0.17368	-0.1287	ppb	0.17368	134.93%
Cu 324.752†	109.7	0.6096	ug/L	0.14696	0.6096	ppb	0.14696	24.11%
Fe 238.204 Radial†	0.8	9.2670	ug/L	12.09973	9.2670	ppb	12.09973	130.57%
K 766.490 Radial†	3236.9	562.48	ug/L	13.107	562.48	ppb	13.107	2.33%

Mg 279.077 IEC†	246.2	3937.4 ug/L	19.08	3937.4 ppb	19.08	0.48%
Mn 257.610†	2645.7	5.8839 ug/L	0.07991	5.8839 ppb	0.07991	1.36%
Mo 202.031†	1.3	0.0575 ug/L	0.18434	0.0575 ppb	0.18434	320.60%
Na 589.592 Radial†	78593.6	5992.7 ug/L	38.73	5992.7 ppb	38.73	0.65%
Ni 231.604†	9.2	0.2610 ug/L	0.11176	0.2610 ppb	0.11176	42.82%
P 214.914†	9.4	7.8983 ug/L	2.56538	7.8983 ppb	2.56538	32.48%
Pb 220.353†	3.5	0.4282 ug/L	0.61288	0.4282 ppb	0.61288	143.11%
S 181.975 Axial†	179.2	178.77 ug/L	3.703	178.77 ppb	3.703	2.07%
Sb 206.836†	5.4	1.5695 ug/L	1.37737	1.5695 ppb	1.37737	87.76%
Se 196.026†	-15.3	-5.4668 ug/L	1.76644	-5.4668 ppb	1.76644	32.31%
Si 251.611†	31198.1	1650.8 ug/L	15.72	1650.8 ppb	15.72	0.95%
Sn 189.927†	-61.1	-6.7247 ug/L	0.72099	-6.7247 ppb	0.72099	10.72%
Sr 421.552†	20128.3	46.543 ug/L	0.3604	46.543 ppb	0.3604	0.77%
Ti 334.940†	-846.8	0.9363 ug/L	0.05753	0.9363 ppb	0.05753	6.14%
Tl 190.801†	14.0	5.5062 ug/L	1.75223	5.5062 ppb	1.75223	31.82%
U 409.014†	396.3	15.767 ug/L	2.7166	15.767 ppb	2.7166	17.23%
V 292.402†	-2.9	0.0055 ug/L	0.06080	0.0055 ppb	0.06080	>999.9%
Zn 213.857†	430.9	4.5795 ug/L	0.30850	4.5795 ppb	0.30850	6.74%
SiO2†	31240.8	3528.1 ug/L	10.04	3528.1 ppb	10.04	0.28%

Sequence No.: 3
 Sample ID: 1201318160|626724|5
 Analyst: JWJ
 Initial Sample Wt:
 Dilution:

Autosampler Location: 57
 Date Collected: 4/23/2007 23:23:48
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1201318160|626724|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	34192.7	34192.7	97.0 %		23:25:33
1	Y RADIAL	23551.1	23551.1	95.91 %		23:25:33
1	Al 396.153Radial†	-30.9	11.3	5.1784 ug/L	5.1784 ppb	23:25:33
1	Ca 317.933Radial†	30356.5	31229.8	21385 ug/L	21385 ppb	23:25:33
1	Fe 238.204 Radial†	43.3	2.6	28.292 ug/L	28.292 ppb	23:25:53
1	K 766.490 Radial†	4172.2	3282.7	570.46 ug/L	570.46 ppb	23:25:33
1	Mg 279.077 IEC†	251.4	256.1	4096.6 ug/L	4096.6 ppb	23:25:53
1	Na 589.592 Radial†	77770.3	80042.3	6103.2 ug/L	6103.2 ppb	23:25:33
1	Sr 421.552†	20201.6	20479.0	47.354 ug/L	47.354 ppb	23:25:33
1	Sc 361.383	962372.4	962372.4	99.396 %		23:26:52
1	Y 371.029	663671.6	663671.6	98.603 %		23:26:52
1	Ag 328.068†	33.4	-36.2	-1.5952 ug/L	-1.5952 ppb	23:26:57
1	As 188.979†	-6.6	11.8	4.6178 ug/L	4.6178 ppb	23:27:17
1	B 249.677†	552.9	305.5	9.2739 ug/L	9.2739 ppb	23:27:17
1	Ba 233.527†	3491.6	3530.4	56.933 ug/L	56.933 ppb	23:27:17
1	Be 313.107†	-2976.0	-85.1	-0.0483 ug/L	-0.0483 ppb	23:26:57
1	Cd 226.502†	-73.8	23.6	0.3442 ug/L	0.3442 ppb	23:27:17
1	Co 228.616†	-28.2	-0.3	0.0210 ug/L	0.0210 ppb	23:27:17
1	Cr 267.716†	-54.3	-17.1	-0.2711 ug/L	-0.2711 ppb	23:27:17
1	Cu 324.752†	3254.2	41.4	0.2322 ug/L	0.2322 ppb	23:26:57
1	Mn 257.610†	2620.9	2487.3	5.5269 ug/L	5.5269 ppb	23:27:17
1	Mo 202.031†	10.3	-9.0	-0.3863 ug/L	-0.3863 ppb	23:27:17
1	Ni 231.604†	174.3	16.9	0.5029 ug/L	0.5029 ppb	23:27:17
1	P 214.914†	-164.2	6.9	5.7765 ug/L	5.7765 ppb	23:27:17
1	Pb 220.353†	81.2	10.3	1.2970 ug/L	1.2970 ppb	23:27:17
1	S 181.975 Axial†	209.7	174.5	173.99 ug/L	173.99 ppb	23:27:17
1	Sb 206.836†	30.7	6.6	2.0395 ug/L	2.0395 ppb	23:27:17
1	Se 196.026†	-21.6	-15.2	-5.3669 ug/L	-5.3669 ppb	23:27:17
1	Si 251.611†	31567.4	31346.2	1658.5 ug/L	1658.5 ppb	23:26:57
1	Sn 189.927†	-67.2	-67.5	-7.5248 ug/L	-7.5248 ppb	23:27:17
1	Ti 334.940†	-224.9	-801.6	1.0589 ug/L	1.0589 ppb	23:26:57
1	Tl 190.801†	-21.0	14.5	5.7419 ug/L	5.7419 ppb	23:27:17
1	U 409.014†	437.1	318.8	11.876 ug/L	11.876 ppb	23:26:57
1	V 292.402†	-243.1	29.0	0.2985 ug/L	0.2985 ppb	23:27:17
1	Zn 213.857†	842.2	388.7	4.0451 ug/L	4.0451 ppb	23:27:17
1	SiO2†	31678.1	31468.3	3553.8 ug/L	3553.8 ppb	23:28:25
2	Sc Radial	34930.9	34930.9	99.1 %		23:25:58
2	Y RADIAL	24142.6	24142.6	98.32 %		23:25:58
2	Al 396.153Radial†	-21.2	21.7	9.9563 ug/L	9.9563 ppb	23:25:58
2	Ca 317.933Radial†	30936.6	31153.8	21333 ug/L	21333 ppb	23:25:58
2	Fe 238.204 Radial†	41.7	-0.0	-0.3546 ug/L	-0.3546 ppb	23:26:18
2	K 766.490 Radial†	4170.8	3190.4	554.48 ug/L	554.48 ppb	23:25:58
2	Mg 279.077 IEC†	250.3	249.6	3992.8 ug/L	3992.8 ppb	23:26:18
2	Na 589.592 Radial†	78760.7	79347.1	6050.2 ug/L	6050.2 ppb	23:25:58
2	Sr 421.552†	20564.3	20404.8	47.182 ug/L	47.182 ppb	23:25:58
2	Sc 361.383	955197.4	955197.4	98.655 %		23:27:23
2	Y 371.029	659118.1	659118.1	97.926 %		23:27:23
2	Ag 328.068†	22.8	-46.7	-1.6770 ug/L	-1.6770 ppb	23:27:28
2	As 188.979†	-2.4	16.0	6.6358 ug/L	6.6358 ppb	23:27:48
2	B 249.677†	558.7	315.6	9.5975 ug/L	9.5975 ppb	23:27:48
2	Ba 233.527†	3496.6	3561.9	57.442 ug/L	57.442 ppb	23:27:48
2	Be 313.107†	-2938.5	-69.6	-0.0404 ug/L	-0.0404 ppb	23:27:28
2	Cd 226.502†	-69.4	27.6	0.4050 ug/L	0.4050 ppb	23:27:48
2	Co 228.616†	-23.5	4.3	0.1559 ug/L	0.1559 ppb	23:27:48
2	Cr 267.716†	-40.0	-3.0	-0.0402 ug/L	-0.0402 ppb	23:27:48
2	Cu 324.752†	3234.1	45.6	0.2532 ug/L	0.2532 ppb	23:27:28
2	Mn 257.610†	2640.9	2527.5	5.6154 ug/L	5.6154 ppb	23:27:48
2	Mo 202.031†	9.9	-9.3	-0.4021 ug/L	-0.4021 ppb	23:27:48
2	Ni 231.604†	173.6	17.5	0.5209 ug/L	0.5209 ppb	23:27:48

2	P 214.914†	-162.8	7.0	5.9285 ug/L	5.9285 ppb	23:27:48
2	Pb 220.353†	75.0	4.6	0.5737 ug/L	0.5737 ppb	23:27:48
2	S 181.975 Axial†	212.2	178.6	178.19 ug/L	178.19 ppb	23:27:48
2	Sb 206.836†	31.1	7.3	2.3259 ug/L	2.3259 ppb	23:27:48
2	Se 196.026†	-13.3	-6.9	-1.7612 ug/L	-1.7612 ppb	23:27:48
2	Si 251.611†	31409.6	31424.9	1662.7 ug/L	1662.7 ppb	23:27:28
2	Sn 189.927†	-53.9	-54.5	-5.8547 ug/L	-5.8547 ppb	23:27:48
2	Ti 334.940†	-262.2	-841.0	0.9812 ug/L	0.9812 ppb	23:27:28
2	Tl 190.801†	-22.6	12.8	4.9774 ug/L	4.9774 ppb	23:27:48
2	U 409.014†	509.4	395.3	15.667 ug/L	15.667 ppb	23:27:28
2	V 292.402†	-249.4	20.8	0.2336 ug/L	0.2336 ppb	23:27:48
2	Zn 213.857†	835.0	387.8	4.0423 ug/L	4.0423 ppb	23:27:48
2	SiO2†	31728.1	31758.4	3586.6 ug/L	3586.6 ppb	23:28:30
3	Sc Radial	34637.1	34637.1	98.2 %		23:26:24
3	Y RADIAL	23954.6	23954.6	97.56 %		23:26:24
3	Al 396.153Radial†	-0.5	42.6	19.568 ug/L	19.568 ppb	23:26:24
3	Ca 317.933Radial†	30724.8	31203.1	21367 ug/L	21367 ppb	23:26:24
3	Fe 238.204 Radial†	41.3	-0.1	-0.8248 ug/L	-0.8248 ppb	23:26:44
3	K 766.490 Radial†	4255.3	3312.2	575.55 ug/L	575.55 ppb	23:26:24
3	Mg 279.077 IEC†	250.1	251.5	4022.9 ug/L	4022.9 ppb	23:26:44
3	Na 589.592 Radial†	77967.2	79213.8	6040.0 ug/L	6040.0 ppb	23:26:24
3	Sr 421.552†	20296.1	20307.9	46.953 ug/L	46.953 ppb	23:26:24
3	Sc 361.383	959954.8	959954.8	99.146 %		23:27:54
3	Y 371.029	661887.7	661887.7	98.338 %		23:27:54
3	Ag 328.068†	43.9	-25.6	-1.5291 ug/L	-1.5291 ppb	23:27:59
3	As 188.979†	-7.3	11.0	4.2357 ug/L	4.2357 ppb	23:28:19
3	B 249.677†	546.7	300.6	9.1418 ug/L	9.1418 ppb	23:28:19
3	Ba 233.527†	3499.2	3547.0	57.200 ug/L	57.200 ppb	23:28:19
3	Be 313.107†	-2875.2	9.0	0.0010 ug/L	0.0010 ppb	23:27:59
3	Cd 226.502†	-74.2	23.1	0.3398 ug/L	0.3398 ppb	23:28:19
3	Co 228.616†	-23.7	4.2	0.1543 ug/L	0.1543 ppb	23:28:19
3	Cr 267.716†	-43.1	-6.0	-0.0888 ug/L	-0.0888 ppb	23:28:19
3	Cu 324.752†	3299.5	95.4	0.5287 ug/L	0.5287 ppb	23:27:59
3	Mn 257.610†	2654.8	2528.2	5.6168 ug/L	5.6168 ppb	23:28:19
3	Mo 202.031†	21.4	2.2	0.0935 ug/L	0.0935 ppb	23:28:19
3	Ni 231.604†	165.5	8.4	0.2373 ug/L	0.2373 ppb	23:28:19
3	P 214.914†	-164.7	5.9	4.9823 ug/L	4.9823 ppb	23:28:19
3	Pb 220.353†	78.4	7.7	0.9699 ug/L	0.9699 ppb	23:28:19
3	S 181.975 Axial†	212.5	177.8	177.38 ug/L	177.38 ppb	23:28:19
3	Sb 206.836†	27.9	3.9	0.9432 ug/L	0.9432 ppb	23:28:19
3	Se 196.026†	-24.1	-17.7	-6.5566 ug/L	-6.5566 ppb	23:28:19
3	Si 251.611†	31453.7	31311.5	1656.7 ug/L	1656.7 ppb	23:27:59
3	Sn 189.927†	-61.1	-61.5	-6.7509 ug/L	-6.7509 ppb	23:28:19
3	Ti 334.940†	-167.7	-744.4	1.1555 ug/L	1.1555 ppb	23:27:59
3	Tl 190.801†	-20.4	15.2	6.0343 ug/L	6.0343 ppb	23:28:19
3	U 409.014†	494.2	377.5	14.782 ug/L	14.782 ppb	23:27:59
3	V 292.402†	-254.5	16.9	0.1817 ug/L	0.1817 ppb	23:28:19
3	Zn 213.857†	840.4	389.1	4.0546 ug/L	4.0546 ppb	23:28:19
3	SiO2†	31906.1	31778.5	3588.8 ug/L	3588.8 ppb	23:28:35

Mean Data: 1201318160|626724|5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	959174.9	99.065	%	0.3770				0.38%
Sc Radial	34586.9	98.1	%	1.05				1.07%
Y 371.029	661559.1	98.289	%	0.3409				0.35%
Y RADIAL	23882.7	97.26	%	1.231				1.27%
Ag 328.068†	-36.2	-1.6004	ug/L	0.07408	-1.6004	ppb	0.07408	4.63%
Al 396.153Radial†	25.2	11.568	ug/L	7.3290	11.568	ppb	7.3290	63.36%
As 188.979†	12.9	5.1631	ug/L	1.28965	5.1631	ppb	1.28965	24.98%
B 249.677†	307.3	9.3377	ug/L	0.23449	9.3377	ppb	0.23449	2.51%
Ba 233.527†	3546.4	57.192	ug/L	0.2545	57.192	ppb	0.2545	0.44%
Be 313.107†	-48.6	-0.0292	ug/L	0.02647	-0.0292	ppb	0.02647	90.64%
Ca 317.933Radial†	31195.6	21361	ug/L	26.4	21361	ppb	26.4	0.12%
Cd 226.502†	24.8	0.3630	ug/L	0.03641	0.3630	ppb	0.03641	10.03%
Co 228.616†	2.8	0.1104	ug/L	0.07744	0.1104	ppb	0.07744	70.16%
Cr 267.716†	-8.7	-0.1334	ug/L	0.12173	-0.1334	ppb	0.12173	91.24%
Cu 324.752†	60.8	0.3381	ug/L	0.16547	0.3381	ppb	0.16547	48.95%
Fe 238.204 Radial†	0.8	9.0376	ug/L	16.67663	9.0376	ppb	16.67663	184.53%
K 766.490 Radial†	3261.8	566.83	ug/L	10.994	566.83	ppb	10.994	1.94%

Mg 279.077 IEC†	252.4	4037.4 ug/L	53.41	4037.4 ppb	53.41	1.32%
Mn 257.610†	2514.3	5.5864 ug/L	0.05147	5.5864 ppb	0.05147	0.92%
Mo 202.031†	-5.4	-0.2317 ug/L	0.28171	-0.2317 ppb	0.28171	121.60%
Na 589.592 Radial†	79534.4	6064.4 ug/L	33.91	6064.4 ppb	33.91	0.56%
Ni 231.604†	14.3	0.4204 ug/L	0.15878	0.4204 ppb	0.15878	37.77%
P 214.914†	6.6	5.5625 ug/L	0.50814	5.5625 ppb	0.50814	9.14%
Pb 220.353†	7.5	0.9469 ug/L	0.36217	0.9469 ppb	0.36217	38.25%
S 181.975 Axial†	177.0	176.52 ug/L	2.226	176.52 ppb	2.226	1.26%
Sb 206.836†	6.0	1.7695 ug/L	0.72985	1.7695 ppb	0.72985	41.25%
Se 196.026†	-13.3	-4.5616 ug/L	2.49710	-4.5616 ppb	2.49710	54.74%
Si 251.611†	31360.9	1659.3 ug/L	3.09	1659.3 ppb	3.09	0.19%
Sn 189.927†	-61.2	-6.7101 ug/L	0.83582	-6.7101 ppb	0.83582	12.46%
Sr 421.552†	20397.2	47.163 ug/L	0.2009	47.163 ppb	0.2009	0.43%
Ti 334.940†	-795.7	1.0652 ug/L	0.08732	1.0652 ppb	0.08732	8.20%
Tl 190.801†	14.2	5.5845 ug/L	0.54575	5.5845 ppb	0.54575	9.77%
U 409.014†	363.9	14.109 ug/L	1.9833	14.109 ppb	1.9833	14.06%
V 292.402†	22.2	0.2380 ug/L	0.05851	0.2380 ppb	0.05851	24.59%
Zn 213.857†	388.5	4.0473 ug/L	0.00646	4.0473 ppb	0.00646	0.16%
SiO2†	31668.4	3576.4 ug/L	19.60	3576.4 ppb	19.60	0.55%

Sequence No.: 4
 Sample ID: 1201318161|626724|5
 Analyst: JWJ
 Initial Sample Wt:
 Dilution:

Autosampler Location: 58
 Date Collected: 4/23/2007 23:30:45
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1201318161|626724|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35338.9	35338.9	100 %		23:32:30
1	Y RADIAL	24398.9	24398.9	99.36 %		23:32:30
1	Al 396.153Radial†	2212.0	2250.2	1031.0 ug/L	1031.0 ppb	23:32:30
1	Ca 317.933Radial†	32601.3	32454.2	22224 ug/L	22224 ppb	23:32:30
1	Fe 238.204 Radial†	136.0	93.7	1036.3 ug/L	1036.3 ppb	23:32:51
1	K 766.490 Radial†	9920.6	8878.7	1539.1 ug/L	1539.1 ppb	23:32:30
1	Mg 279.077 IEC†	313.6	309.9	4957.2 ug/L	4957.2 ppb	23:32:51
1	Na 589.592 Radial†	91839.9	91479.0	6975.9 ug/L	6975.9 ppb	23:32:30
1	Sr 421.552†	62281.4	61788.2	144.16 ug/L	144.16 ppb	23:32:30
1	Sc 361.383	950899.2	950899.2	98.211 %		23:33:50
1	Y 371.029	654503.3	654503.3	97.241 %		23:33:50
1	Ag 328.068†	14026.1	14211.8	100.91 ug/L	100.91 ppb	23:33:50
1	As 188.979†	203.9	226.0	107.22 ug/L	107.22 ppb	23:34:10
1	B 249.677†	3787.5	3605.8	108.59 ug/L	108.59 ppb	23:33:50
1	Ba 233.527†	9746.4	9941.6	160.52 ug/L	160.52 ppb	23:33:50
1	Be 313.107†	189702.7	196068.1	102.38 ug/L	102.38 ppb	23:33:50
1	Cd 226.502†	6650.1	6869.1	98.813 ug/L	98.813 ppb	23:34:10
1	Co 228.616†	3250.1	3337.4	98.672 ug/L	98.672 ppb	23:34:10
1	Cr 267.716†	5995.9	6142.7	100.03 ug/L	100.03 ppb	23:33:50
1	Cu 324.752†	20923.5	18072.1	100.33 ug/L	100.33 ppb	23:33:50
1	Mn 257.610†	46660.5	47361.2	106.76 ug/L	106.76 ppb	23:33:50
1	Mo 202.031†	2315.4	2338.2	100.71 ug/L	100.71 ppb	23:34:10
1	Ni 231.604†	3214.8	3114.9	97.981 ug/L	97.981 ppb	23:34:10
1	P 214.914†	-47.1	124.0	102.32 ug/L	102.32 ppb	23:34:10
1	Pb 220.353†	844.5	788.5	101.12 ug/L	101.12 ppb	23:34:10
1	S 181.975 Axial†	1189.5	1174.7	1184.9 ug/L	1184.9 ppb	23:34:10
1	Sb 206.836†	291.0	272.0	108.95 ug/L	108.95 ppb	23:34:10
1	Se 196.026†	203.7	213.9	98.948 ug/L	98.948 ppb	23:34:10
1	Si 251.611†	51472.0	51996.6	2752.3 ug/L	2752.3 ppb	23:33:50
1	Sn 189.927†	705.3	718.2	94.122 ug/L	94.122 ppb	23:34:10
1	Ti 334.940†	57165.7	57632.0	103.78 ug/L	103.78 ppb	23:33:50
1	Tl 190.801†	193.8	233.0	105.26 ug/L	105.26 ppb	23:34:10
1	U 409.014†	2648.9	2576.2	122.27 ug/L	122.27 ppb	23:33:50
1	V 292.402†	10794.1	11264.4	98.673 ug/L	98.673 ppb	23:33:50
1	Zn 213.857†	8780.8	8482.2	102.85 ug/L	102.85 ppb	23:33:50
1	SiO2†	52197.5	52746.1	5956.8 ug/L	5956.8 ppb	23:35:09
2	Sc Radial	35363.5	35363.5	100 %		23:32:56
2	Y RADIAL	24387.4	24387.4	99.32 %		23:32:56
2	Al 396.153Radial†	2197.4	2234.0	1023.6 ug/L	1023.6 ppb	23:32:56
2	Ca 317.933Radial†	32118.4	31950.1	21878 ug/L	21878 ppb	23:32:56
2	Fe 238.204 Radial†	132.6	90.1	997.30 ug/L	997.30 ppb	23:33:16
2	K 766.490 Radial†	9899.8	8851.0	1534.3 ug/L	1534.3 ppb	23:32:56
2	Mg 279.077 IEC†	314.4	310.4	4966.4 ug/L	4966.4 ppb	23:33:16
2	Na 589.592 Radial†	90203.4	89783.6	6846.6 ug/L	6846.6 ppb	23:32:56
2	Sr 421.552†	61334.2	60800.7	141.85 ug/L	141.85 ppb	23:32:56
2	Sc 361.383	952670.7	952670.7	98.394 %		23:34:16
2	Y 371.029	656267.7	656267.7	97.503 %		23:34:16
2	Ag 328.068†	14027.1	14186.3	100.73 ug/L	100.73 ppb	23:34:16
2	As 188.979†	203.0	224.7	106.63 ug/L	106.63 ppb	23:34:37
2	B 249.677†	3827.2	3638.9	109.62 ug/L	109.62 ppb	23:34:16
2	Ba 233.527†	9740.2	9916.9	160.12 ug/L	160.12 ppb	23:34:16
2	Be 313.107†	189726.5	195733.1	102.21 ug/L	102.21 ppb	23:34:16
2	Cd 226.502†	6699.5	6906.8	99.358 ug/L	99.358 ppb	23:34:37
2	Co 228.616†	3263.5	3344.8	98.889 ug/L	98.889 ppb	23:34:37
2	Cr 267.716†	5989.7	6125.1	99.739 ug/L	99.739 ppb	23:34:16
2	Cu 324.752†	21018.8	18129.4	100.64 ug/L	100.64 ppb	23:34:16
2	Mn 257.610†	46809.2	47423.9	106.89 ug/L	106.89 ppb	23:34:16
2	Mo 202.031†	2321.0	2339.5	100.77 ug/L	100.77 ppb	23:34:37
2	Ni 231.604†	3234.7	3129.0	98.425 ug/L	98.425 ppb	23:34:37

2	P 214.914†	-49.1	122.1	100.70 ug/L	100.70 ppb	23:34:37
2	Pb 220.353†	848.6	791.0	101.46 ug/L	101.46 ppb	23:34:37
2	S 181.975 Axial†	1187.1	1170.0	1180.2 ug/L	1180.2 ppb	23:34:37
2	Sb 206.836†	286.8	267.3	107.06 ug/L	107.06 ppb	23:34:37
2	Se 196.026†	192.2	201.8	93.469 ug/L	93.469 ppb	23:34:37
2	Si 251.611†	51881.0	52314.9	2769.3 ug/L	2769.3 ppb	23:34:16
2	Sn 189.927†	708.2	719.9	94.316 ug/L	94.316 ppb	23:34:37
2	Ti 334.940†	57546.2	57910.5	104.23 ug/L	104.23 ppb	23:34:16
2	Tl 190.801†	201.0	240.0	108.40 ug/L	108.40 ppb	23:34:37
2	U 409.014†	2626.7	2548.6	120.98 ug/L	120.98 ppb	23:34:16
2	V 292.402†	10754.7	11203.9	98.126 ug/L	98.126 ppb	23:34:16
2	Zn 213.857†	8832.6	8518.2	103.30 ug/L	103.30 ppb	23:34:16
2	SiO2†	52189.0	52638.7	5944.6 ug/L	5944.6 ppb	23:35:14
3	Sc Radial	34513.1	34513.1	97.9 %		23:33:21
3	Y RADIAL	23814.8	23814.8	96.99 %		23:33:21
3	Al 396.153Radial†	2172.1	2262.2	1036.5 ug/L	1036.5 ppb	23:33:21
3	Ca 317.933Radial†	32184.6	32806.8	22465 ug/L	22465 ppb	23:33:21
3	Fe 238.204 Radial†	130.7	91.4	1011.6 ug/L	1011.6 ppb	23:33:41
3	K 766.490 Radial†	9886.3	9080.4	1574.0 ug/L	1574.0 ppb	23:33:21
3	Mg 279.077 IEC†	314.0	317.7	5082.6 ug/L	5082.6 ppb	23:33:41
3	Na 589.592 Radial†	90933.1	92745.2	7072.4 ug/L	7072.4 ppb	23:33:21
3	Sr 421.552†	61744.7	62726.8	146.35 ug/L	146.35 ppb	23:33:21
3	Sc 361.383	947794.5	947794.5	97.890 %		23:34:43
3	Y 371.029	652905.8	652905.8	97.003 %		23:34:43
3	Ag 328.068†	13947.4	14178.2	100.65 ug/L	100.65 ppb	23:34:43
3	As 188.979†	199.7	222.4	105.50 ug/L	105.50 ppb	23:35:03
3	B 249.677†	3850.0	3682.3	110.93 ug/L	110.93 ppb	23:34:43
3	Ba 233.527†	9727.6	9954.9	160.73 ug/L	160.73 ppb	23:34:43
3	Be 313.107†	189889.4	196891.6	102.82 ug/L	102.82 ppb	23:34:43
3	Cd 226.502†	6617.5	6858.0	98.656 ug/L	98.656 ppb	23:35:03
3	Co 228.616†	3240.8	3338.8	98.701 ug/L	98.701 ppb	23:35:03
3	Cr 267.716†	5971.2	6137.4	99.941 ug/L	99.941 ppb	23:34:43
3	Cu 324.752†	20870.1	18087.4	100.41 ug/L	100.41 ppb	23:34:43
3	Mn 257.610†	46755.4	47613.8	107.32 ug/L	107.32 ppb	23:34:43
3	Mo 202.031†	2300.8	2331.0	100.40 ug/L	100.40 ppb	23:35:03
3	Ni 231.604†	3169.5	3079.4	96.860 ug/L	96.860 ppb	23:35:03
3	P 214.914†	-39.1	132.1	109.10 ug/L	109.10 ppb	23:35:03
3	Pb 220.353†	839.8	786.5	100.87 ug/L	100.87 ppb	23:35:03
3	S 181.975 Axial†	1183.0	1171.9	1182.1 ug/L	1182.1 ppb	23:35:03
3	Sb 206.836†	288.3	270.3	108.24 ug/L	108.24 ppb	23:35:03
3	Se 196.026†	201.6	212.5	98.277 ug/L	98.277 ppb	23:35:03
3	Si 251.611†	51750.7	52453.0	2776.4 ug/L	2776.4 ppb	23:34:43
3	Sn 189.927†	704.4	719.7	94.321 ug/L	94.321 ppb	23:35:03
3	Ti 334.940†	59355.1	60059.3	108.08 ug/L	108.08 ppb	23:34:43
3	Tl 190.801†	193.9	233.8	105.65 ug/L	105.65 ppb	23:35:03
3	U 409.014†	2639.4	2575.3	122.19 ug/L	122.19 ppb	23:34:43
3	V 292.402†	10783.3	11289.4	98.906 ug/L	98.906 ppb	23:34:43
3	Zn 213.857†	8740.5	8470.3	102.70 ug/L	102.70 ppb	23:34:43
3	SiO2†	52133.4	52854.8	5969.0 ug/L	5969.0 ppb	23:35:19

Mean Data: 1201318161|626724|5

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	950454.8	98.165 %	0.2549			0.26%
Sc Radial	35071.8	99.5 %	1.37			1.38%
Y 371.029	654558.9	97.249 %	0.2498			0.26%
Y RADIAL	24200.4	98.56 %	1.360			1.38%
Ag 328.068†	14192.1	100.77 ug/L	0.133	100.77 ppb	0.133	0.13%
Al 396.153Radial†	2248.8	1030.4 ug/L	6.50	1030.4 ppb	6.50	0.63%
As 188.979†	224.3	106.45 ug/L	0.876	106.45 ppb	0.876	0.82%
B 249.677†	3642.3	109.71 ug/L	1.174	109.71 ppb	1.174	1.07%
Ba 233.527†	9937.8	160.46 ug/L	0.312	160.46 ppb	0.312	0.19%
Be 313.107†	196230.9	102.47 ug/L	0.316	102.47 ppb	0.316	0.31%
Ca 317.933Radial†	32403.7	22189 ug/L	294.8	22189 ppb	294.8	1.33%
Cd 226.502†	6878.0	98.943 ug/L	0.3686	98.943 ppb	0.3686	0.37%
Co 228.616†	3340.3	98.754 ug/L	0.1178	98.754 ppb	0.1178	0.12%
Cr 267.716†	6135.0	99.902 ug/L	0.1476	99.902 ppb	0.1476	0.15%
Cu 324.752†	18096.3	100.46 ug/L	0.163	100.46 ppb	0.163	0.16%
Fe 238.204 Radial†	91.7	1015.1 ug/L	19.74	1015.1 ppb	19.74	1.94%
K 766.490 Radial†	8936.7	1549.1 ug/L	21.70	1549.1 ppb	21.70	1.40%

Mg 279.077 IEC†	312.7	5002.1 ug/L	69.90	5002.1 ppb	69.90	1.40%
Mn 257.610†	47466.3	106.99 ug/L	0.294	106.99 ppb	0.294	0.28%
Mo 202.031†	2336.3	100.63 ug/L	0.197	100.63 ppb	0.197	0.20%
Na 589.592 Radial†	91335.9	6965.0 ug/L	113.31	6965.0 ppb	113.31	1.63%
Ni 231.604†	3107.8	97.756 ug/L	0.8066	97.756 ppb	0.8066	0.83%
P 214.914†	126.1	104.04 ug/L	4.457	104.04 ppb	4.457	4.28%
Pb 220.353†	788.7	101.15 ug/L	0.292	101.15 ppb	0.292	0.29%
S 181.975 Axial†	1172.2	1182.4 ug/L	2.38	1182.4 ppb	2.38	0.20%
Sb 206.836†	269.9	108.08 ug/L	0.957	108.08 ppb	0.957	0.89%
Se 196.026†	209.4	96.898 ug/L	2.9886	96.898 ppb	2.9886	3.08%
Si 251.611†	52254.8	2766.0 ug/L	12.41	2766.0 ppb	12.41	0.45%
Sn 189.927†	719.3	94.253 ug/L	0.1139	94.253 ppb	0.1139	0.12%
Sr 421.552†	61771.9	144.12 ug/L	2.249	144.12 ppb	2.249	1.56%
Ti 334.940†	58533.9	105.37 ug/L	2.361	105.37 ppb	2.361	2.24%
Tl 190.801†	235.6	106.44 ug/L	1.711	106.44 ppb	1.711	1.61%
U 409.014†	2566.7	121.81 ug/L	0.723	121.81 ppb	0.723	0.59%
V 292.402†	11252.5	98.568 ug/L	0.4003	98.568 ppb	0.4003	0.41%
Zn 213.857†	8490.2	102.95 ug/L	0.316	102.95 ppb	0.316	0.31%
SiO2†	52746.5	5956.8 ug/L	12.20	5956.8 ppb	12.20	0.20%

Sequence No.: 5
 Sample ID: 1201318162|626724|25
 Analyst: JWJ
 Initial Sample Wt:
 Dilution:

Autosampler Location: 59
 Date Collected: 4/23/2007 23:37:31
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1201318162|626724|25

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35386.3	35386.3	100 %		23:39:20
1	Y RADIAL	24622.2	24622.2	100.3 %		23:39:20
1	Al 396.153Radial†	-48.0	-4.7	-2.1510 ug/L	-2.1510 ppb	23:39:20
1	Ca 317.933Radial†	6331.8	6235.4	4269.8 ug/L	4269.8 ppb	23:39:20
1	Fe 238.204 Radial†	40.5	-1.7	-19.207 ug/L	-19.207 ppb	23:39:40
1	K 766.490 Radial†	2271.5	1243.7	215.72 ug/L	215.72 ppb	23:39:20
1	Mg 279.077 IEC†	50.6	47.3	756.67 ug/L	756.67 ppb	23:39:40
1	Na 589.592 Radial†	16251.2	16039.0	1223.0 ug/L	1223.0 ppb	23:39:20
1	Sr 421.552†	4413.8	4045.2	9.3525 ug/L	9.3525 ppb	23:39:20
1	Sc 361.383	968242.3	968242.3	100.00 %		23:40:43
1	Y 371.029	671700.6	671700.6	99.796 %		23:40:43
1	Ag 328.068†	46.4	-23.4	-0.4425 ug/L	-0.4425 ppb	23:40:49
1	As 188.979†	-9.4	8.9	4.0672 ug/L	4.0672 ppb	23:41:09
1	B 249.677†	385.5	134.8	4.1109 ug/L	4.1109 ppb	23:41:09
1	Ba 233.527†	719.3	736.9	11.885 ug/L	11.885 ppb	23:41:09
1	Be 313.107†	-2954.2	-45.2	-0.0243 ug/L	-0.0243 ppb	23:40:49
1	Cd 226.502†	-85.0	12.9	0.1928 ug/L	0.1928 ppb	23:41:09
1	Co 228.616†	-28.5	-0.4	-0.0056 ug/L	-0.0056 ppb	23:41:09
1	Cr 267.716†	-39.1	-1.6	-0.0203 ug/L	-0.0203 ppb	23:41:09
1	Cu 324.752†	3250.1	17.4	0.0953 ug/L	0.0953 ppb	23:40:49
1	Mn 257.610†	684.4	534.9	1.1855 ug/L	1.1855 ppb	23:41:09
1	Mo 202.031†	11.3	-8.1	-0.3484 ug/L	-0.3484 ppb	23:41:09
1	Ni 231.604†	161.9	3.5	0.1033 ug/L	0.1033 ppb	23:41:09
1	P 214.914†	-162.7	9.3	7.8401 ug/L	7.8401 ppb	23:41:09
1	Pb 220.353†	68.5	-2.9	-0.3826 ug/L	-0.3826 ppb	23:41:09
1	S 181.975 Axial†	69.7	33.1	33.026 ug/L	33.026 ppb	23:41:09
1	Sb 206.836†	16.4	-7.9	-3.2861 ug/L	-3.2861 ppb	23:41:09
1	Se 196.026†	-5.3	1.3	0.8080 ug/L	0.8080 ppb	23:41:09
1	Si 251.611†	6674.2	6260.9	331.27 ug/L	331.27 ppb	23:40:49
1	Sn 189.927†	-16.7	-16.5	-1.9005 ug/L	-1.9005 ppb	23:41:09
1	Ti 334.940†	411.9	-163.4	0.2001 ug/L	0.2001 ppb	23:40:49
1	Tl 190.801†	-31.6	4.1	1.6764 ug/L	1.6764 ppb	23:41:09
1	U 409.014†	381.9	260.9	12.114 ug/L	12.114 ppb	23:40:49
1	V 292.402†	-255.8	17.8	0.1944 ug/L	0.1944 ppb	23:41:09
1	Zn 213.857†	726.9	268.3	3.1503 ug/L	3.1503 ppb	23:41:09
1	SiO2†	6715.2	6312.7	712.91 ug/L	712.91 ppb	23:42:16
2	Sc Radial	35555.2	35555.2	101 %		23:39:45
2	Y RADIAL	24765.3	24765.3	100.9 %		23:39:45
2	Al 396.153Radial†	-45.5	-2.0	-0.9601 ug/L	-0.9601 ppb	23:39:45
2	Ca 317.933Radial†	6368.8	6242.2	4274.4 ug/L	4274.4 ppb	23:39:45
2	Fe 238.204 Radial†	39.0	-3.4	-37.216 ug/L	-37.216 ppb	23:40:05
2	K 766.490 Radial†	2166.7	1129.1	195.89 ug/L	195.89 ppb	23:39:45
2	Mg 279.077 IEC†	52.3	48.8	781.30 ug/L	781.30 ppb	23:40:05
2	Na 589.592 Radial†	16288.4	15999.0	1219.9 ug/L	1219.9 ppb	23:39:45
2	Sr 421.552†	4422.0	4032.5	9.3224 ug/L	9.3224 ppb	23:39:45
2	Sc 361.383	966262.5	966262.5	99.797 %		23:41:14
2	Y 371.029	670134.5	670134.5	99.563 %		23:41:14
2	Ag 328.068†	66.1	-3.6	-0.3074 ug/L	-0.3074 ppb	23:41:20
2	As 188.979†	-14.9	3.5	1.4654 ug/L	1.4654 ppb	23:41:40
2	B 249.677†	376.1	126.1	3.8572 ug/L	3.8572 ppb	23:41:40
2	Ba 233.527†	702.7	721.8	11.641 ug/L	11.641 ppb	23:41:40
2	Be 313.107†	-2989.9	-87.0	-0.0457 ug/L	-0.0457 ppb	23:41:20
2	Cd 226.502†	-98.2	-0.6	-0.0018 ug/L	-0.0018 ppb	23:41:40
2	Co 228.616†	-26.1	1.9	0.0625 ug/L	0.0625 ppb	23:41:40
2	Cr 267.716†	-32.0	5.4	0.0913 ug/L	0.0913 ppb	23:41:40
2	Cu 324.752†	3318.8	92.9	0.5124 ug/L	0.5124 ppb	23:41:20
2	Mn 257.610†	713.6	565.6	1.2543 ug/L	1.2543 ppb	23:41:40
2	Mo 202.031†	25.4	6.0	0.2587 ug/L	0.2587 ppb	23:41:40
2	Ni 231.604†	162.2	4.1	0.1232 ug/L	0.1232 ppb	23:41:40

2	P 214.914†	-163.1	8.6	7.2473 ug/L	7.2473 ppb	23:41:40
2	Pb 220.353†	72.5	1.3	0.1604 ug/L	0.1604 ppb	23:41:40
2	S 181.975 Axial†	68.0	31.6	31.510 ug/L	31.510 ppb	23:41:40
2	Sb 206.836†	32.1	8.0	3.0903 ug/L	3.0903 ppb	23:41:40
2	Se 196.026†	-3.8	2.8	1.4295 ug/L	1.4295 ppb	23:41:40
2	Si 251.611†	6758.6	6359.2	336.48 ug/L	336.48 ppb	23:41:20
2	Sn 189.927†	-20.7	-20.6	-2.4272 ug/L	-2.4272 ppb	23:41:40
2	Ti 334.940†	490.9	-83.3	0.3445 ug/L	0.3445 ppb	23:41:20
2	Tl 190.801†	-33.0	2.7	1.0412 ug/L	1.0412 ppb	23:41:40
2	U 409.014†	264.1	143.7	6.3282 ug/L	6.3282 ppb	23:41:20
2	V 292.402†	-269.5	3.6	0.0401 ug/L	0.0401 ppb	23:41:40
2	Zn 213.857†	858.6	401.7	4.7873 ug/L	4.7873 ppb	23:41:40
2	SiO2†	6739.1	6350.4	717.16 ug/L	717.16 ppb	23:42:21
3	Sc Radial	35120.6	35120.6	99.6 %		23:40:11
3	Y RADIAL	24414.8	24414.8	99.43 %		23:40:11
3	Al 396.153Radial†	-79.4	-36.6	-16.853 ug/L	-16.853 ppb	23:40:11
3	Ca 317.933Radial†	6336.7	6288.1	4305.8 ug/L	4305.8 ppb	23:40:11
3	Fe 238.204 Radial†	37.2	-4.7	-52.199 ug/L	-52.199 ppb	23:40:31
3	K 766.490 Radial†	2223.4	1212.6	210.34 ug/L	210.34 ppb	23:40:11
3	Mg 279.077 IEC†	52.3	49.5	791.33 ug/L	791.33 ppb	23:40:31
3	Na 589.592 Radial†	16114.4	16024.2	1221.8 ug/L	1221.8 ppb	23:40:11
3	Sr 421.552†	4398.6	4063.2	9.3936 ug/L	9.3936 ppb	23:40:11
3	Sc 361.383	966455.7	966455.7	99.817 %		23:41:45
3	Y 371.029	670664.8	670664.8	99.642 %		23:41:45
3	Ag 328.068†	70.9	1.2	-0.2794 ug/L	-0.2794 ppb	23:41:50
3	As 188.979†	-13.1	5.3	2.3201 ug/L	2.3201 ppb	23:42:11
3	B 249.677†	363.1	113.1	3.4705 ug/L	3.4705 ppb	23:42:11
3	Ba 233.527†	710.7	729.6	11.767 ug/L	11.767 ppb	23:42:11
3	Be 313.107†	-3001.7	-98.2	-0.0517 ug/L	-0.0517 ppb	23:41:50
3	Cd 226.502†	-88.8	8.9	0.1360 ug/L	0.1360 ppb	23:42:11
3	Co 228.616†	-23.9	4.1	0.1274 ug/L	0.1274 ppb	23:42:11
3	Cr 267.716†	-34.5	2.9	0.0504 ug/L	0.0504 ppb	23:42:11
3	Cu 324.752†	3237.0	10.3	0.0529 ug/L	0.0529 ppb	23:41:50
3	Mn 257.610†	719.8	571.6	1.2665 ug/L	1.2665 ppb	23:42:11
3	Mo 202.031†	14.5	-4.9	-0.2116 ug/L	-0.2116 ppb	23:42:11
3	Ni 231.604†	173.1	15.0	0.4657 ug/L	0.4657 ppb	23:42:11
3	P 214.914†	-161.6	10.2	8.6022 ug/L	8.6022 ppb	23:42:11
3	Pb 220.353†	76.4	5.2	0.6573 ug/L	0.6573 ppb	23:42:11
3	S 181.975 Axial†	73.7	37.4	37.280 ug/L	37.280 ppb	23:42:11
3	Sb 206.836†	27.9	3.7	1.3783 ug/L	1.3783 ppb	23:42:11
3	Se 196.026†	-7.7	-1.1	-0.3414 ug/L	-0.3414 ppb	23:42:11
3	Si 251.611†	6747.4	6346.6	335.81 ug/L	335.81 ppb	23:41:50
3	Sn 189.927†	-14.1	-14.0	-1.5726 ug/L	-1.5726 ppb	23:42:11
3	Ti 334.940†	462.1	-112.4	0.2979 ug/L	0.2979 ppb	23:41:50
3	Tl 190.801†	-30.8	4.8	2.0038 ug/L	2.0038 ppb	23:42:11
3	U 409.014†	239.5	119.0	5.1059 ug/L	5.1059 ppb	23:41:50
3	V 292.402†	-271.5	1.7	0.0359 ug/L	0.0359 ppb	23:42:11
3	Zn 213.857†	712.1	254.8	2.9869 ug/L	2.9869 ppb	23:42:11
3	SiO2†	6749.7	6359.7	718.22 ug/L	718.22 ppb	23:42:27

Mean Data: 1201318162|626724|25

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	966986.8	99.872	%	0.1127			0.11%
Sc Radial	35354.0	100	%	0.6			0.62%
Y 371.029	670833.3	99.667	%	0.1183			0.12%
Y RADIAL	24600.8	100.2	%	0.72			0.72%
Ag 328.068†	-8.6	-0.3431	ug/L	0.08717	-0.3431	ppb	0.08717 25.40%
Al 396.153Radial†	-14.4	-6.6548	ug/L	8.85216	-6.6548	ppb	8.85216 133.02%
As 188.979†	5.9	2.6176	ug/L	1.32617	2.6176	ppb	1.32617 50.66%
B 249.677†	124.6	3.8129	ug/L	0.32253	3.8129	ppb	0.32253 8.46%
Ba 233.527†	729.4	11.764	ug/L	0.1223	11.764	ppb	0.1223 1.04%
Be 313.107†	-76.8	-0.0406	ug/L	0.01439	-0.0406	ppb	0.01439 35.45%
Ca 317.933Radial†	6255.2	4283.3	ug/L	19.62	4283.3	ppb	19.62 0.46%
Cd 226.502†	7.1	0.1090	ug/L	0.10005	0.1090	ppb	0.10005 91.80%
Co 228.616†	1.9	0.0614	ug/L	0.06651	0.0614	ppb	0.06651 108.26%
Cr 267.716†	2.3	0.0405	ug/L	0.05644	0.0405	ppb	0.05644 139.46%
Cu 324.752†	40.2	0.2202	ug/L	0.25390	0.2202	ppb	0.25390 115.30%
Fe 238.204 Radial†	-3.3	-36.207	ug/L	16.5195	-36.207	ppb	16.5195 45.63%
K 766.490 Radial†	1195.1	207.32	ug/L	10.258	207.32	ppb	10.258 4.95%

Mg 279.077 IEC†	48.5	776.43 ug/L	17.839	776.43 ppb	17.839	2.30%
Mn 257.610†	557.4	1.2354 ug/L	0.04364	1.2354 ppb	0.04364	3.53%
Mo 202.031†	-2.3	-0.1005 ug/L	0.31844	-0.1005 ppb	0.31844	316.98%
Na 589.592 Radial†	16020.7	1221.6 ug/L	1.56	1221.6 ppb	1.56	0.13%
Ni 231.604†	7.5	0.2307 ug/L	0.20374	0.2307 ppb	0.20374	88.30%
P 214.914†	9.3	7.8966 ug/L	0.67923	7.8966 ppb	0.67923	8.60%
Pb 220.353†	1.2	0.1450 ug/L	0.52011	0.1450 ppb	0.52011	358.65%
S 181.975 Axial†	34.0	33.939 ug/L	2.9914	33.939 ppb	2.9914	8.81%
Sb 206.836†	1.3	0.3942 ug/L	3.30014	0.3942 ppb	3.30014	837.27%
Se 196.026†	1.0	0.6320 ug/L	0.89850	0.6320 ppb	0.89850	142.16%
Si 251.611†	6322.2	334.52 ug/L	2.832	334.52 ppb	2.832	0.85%
Sn 189.927†	-17.1	-1.9667 ug/L	0.43113	-1.9667 ppb	0.43113	21.92%
Sr 421.552†	4047.0	9.3562 ug/L	0.03575	9.3562 ppb	0.03575	0.38%
Ti 334.940†	-119.7	0.2808 ug/L	0.07370	0.2808 ppb	0.07370	26.25%
Tl 190.801†	3.8	1.5738 ug/L	0.48947	1.5738 ppb	0.48947	31.10%
U 409.014†	174.5	7.8493 ug/L	3.74339	7.8493 ppb	3.74339	47.69%
V 292.402†	7.7	0.0901 ug/L	0.09033	0.0901 ppb	0.09033	100.20%
Zn 213.857†	308.3	3.6415 ug/L	0.99566	3.6415 ppb	0.99566	27.34%
SiO2†	6340.9	716.10 ug/L	2.809	716.10 ppb	2.809	0.39%

Sequence No.: 6
 Sample ID: 184428003|626724|5
 Analyst: JWJ
 Initial Sample Wt:
 Dilution:

Autosampler Location: 60
 Date Collected: 4/23/2007 23:44:38
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 184428003|626724|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35542.5	35542.5	101 %		23:46:25
1	Y RADIAL	24592.4	24592.4	100.2 %		23:46:25
1	Al 396.153Radial†	-27.9	15.5	7.0731 ug/L	7.0731 ppb	23:46:25
1	Ca 317.933Radial†	31135.5	30813.7	21100 ug/L	21100 ppb	23:46:25
1	Fe 238.204 Radial†	43.1	0.7	7.5960 ug/L	7.5960 ppb	23:46:45
1	K 766.490 Radial†	4107.3	3055.0	531.00 ug/L	531.00 ppb	23:46:25
1	Mg 279.077 IEC†	255.3	250.2	4001.2 ug/L	4001.2 ppb	23:46:45
1	Na 589.592 Radial†	80476.3	79681.0	6075.7 ug/L	6075.7 ppb	23:46:25
1	Sr 421.552†	20791.0	20272.6	46.879 ug/L	46.879 ppb	23:46:25
1	Sc 361.383	968382.9	968382.9	100.02 %		23:47:44
1	Y 371.029	665128.0	665128.0	98.819 %		23:47:44
1	Ag 328.068†	8.1	-61.7	-1.7679 ug/L	-1.7679 ppb	23:47:44
1	As 188.979†	-6.7	11.6	4.5731 ug/L	4.5731 ppb	23:48:04
1	B 249.677†	520.2	269.4	8.1872 ug/L	8.1872 ppb	23:48:04
1	Ba 233.527†	3532.6	3549.6	57.243 ug/L	57.243 ppb	23:48:04
1	Be 313.107†	-2995.9	-86.4	-0.0488 ug/L	-0.0488 ppb	23:47:44
1	Cd 226.502†	-71.1	26.8	0.3947 ug/L	0.3947 ppb	23:48:04
1	Co 228.616†	-29.7	-1.6	-0.0191 ug/L	-0.0191 ppb	23:48:04
1	Cr 267.716†	-54.3	-16.8	-0.2631 ug/L	-0.2631 ppb	23:48:04
1	Cu 324.752†	3307.2	74.0	0.4116 ug/L	0.4116 ppb	23:47:44
1	Mn 257.610†	2488.7	2338.8	5.1894 ug/L	5.1894 ppb	23:48:04
1	Mo 202.031†	16.5	-2.9	-0.1257 ug/L	-0.1257 ppb	23:48:04
1	Ni 231.604†	167.5	9.0	0.2539 ug/L	0.2539 ppb	23:48:04
1	P 214.914†	-164.6	7.4	6.2913 ug/L	6.2913 ppb	23:48:04
1	Pb 220.353†	79.0	7.5	0.9447 ug/L	0.9447 ppb	23:48:04
1	S 181.975 Axial†	212.8	176.2	175.79 ug/L	175.79 ppb	23:48:04
1	Sb 206.836†	31.6	7.4	2.3354 ug/L	2.3354 ppb	23:48:04
1	Se 196.026†	-12.5	-5.9	-1.3050 ug/L	-1.3050 ppb	23:48:04
1	Si 251.611†	31909.3	31490.9	1666.3 ug/L	1666.3 ppb	23:47:44
1	Sn 189.927†	-59.4	-59.2	-6.4742 ug/L	-6.4742 ppb	23:48:04
1	Ti 334.940†	-184.9	-760.1	1.0943 ug/L	1.0943 ppb	23:47:44
1	Tl 190.801†	-21.7	14.1	5.5422 ug/L	5.5422 ppb	23:48:04
1	U 409.014†	597.7	476.6	19.723 ug/L	19.723 ppb	23:47:44
1	V 292.402†	-255.8	17.8	0.2043 ug/L	0.2043 ppb	23:48:04
1	Zn 213.857†	785.6	326.9	3.2998 ug/L	3.2998 ppb	23:48:04
1	SiO2†	31931.6	31524.0	3560.1 ug/L	3560.1 ppb	23:49:02
2	Sc Radial	35630.1	35630.1	101 %		23:46:50
2	Y RADIAL	24649.4	24649.4	100.4 %		23:46:50
2	Al 396.153Radial†	-2.7	40.5	18.599 ug/L	18.599 ppb	23:46:50
2	Ca 317.933Radial†	31463.6	31062.5	21270 ug/L	21270 ppb	23:46:50
2	Fe 238.204 Radial†	40.9	-1.6	-18.112 ug/L	-18.112 ppb	23:47:11
2	K 766.490 Radial†	4164.9	3101.9	539.15 ug/L	539.15 ppb	23:46:50
2	Mg 279.077 IEC†	255.5	249.8	3994.8 ug/L	3994.8 ppb	23:47:11
2	Na 589.592 Radial†	80802.0	79807.1	6085.3 ug/L	6085.3 ppb	23:46:50
2	Sr 421.552†	20869.5	20299.6	46.937 ug/L	46.937 ppb	23:46:50
2	Sc 361.383	955982.4	955982.4	98.736 %		23:48:10
2	Y 371.029	658679.5	658679.5	97.861 %		23:48:10
2	Ag 328.068†	37.8	-31.5	-1.5735 ug/L	-1.5735 ppb	23:48:10
2	As 188.979†	-5.3	13.0	5.2126 ug/L	5.2126 ppb	23:48:31
2	B 249.677†	513.4	269.2	8.1985 ug/L	8.1985 ppb	23:48:31
2	Ba 233.527†	3540.1	3603.1	58.105 ug/L	58.105 ppb	23:48:31
2	Be 313.107†	-2982.0	-111.3	-0.0625 ug/L	-0.0625 ppb	23:48:10
2	Cd 226.502†	-71.1	25.9	0.3836 ug/L	0.3836 ppb	23:48:31
2	Co 228.616†	-28.2	-0.5	0.0155 ug/L	0.0155 ppb	23:48:31
2	Cr 267.716†	-35.7	1.3	0.0313 ug/L	0.0313 ppb	23:48:31
2	Cu 324.752†	3257.4	66.6	0.3676 ug/L	0.3676 ppb	23:48:10
2	Mn 257.610†	2471.1	2353.3	5.2200 ug/L	5.2200 ppb	23:48:31
2	Mo 202.031†	11.1	-8.2	-0.3527 ug/L	-0.3527 ppb	23:48:31
2	Ni 231.604†	166.0	9.6	0.2747 ug/L	0.2747 ppb	23:48:31

2	P 214.914†	-164.9	5.0	4.3083 ug/L	4.3083 ppb	23:48:31
2	Pb 220.353†	75.8	5.3	0.6649 ug/L	0.6649 ppb	23:48:31
2	S 181.975 Axial†	219.2	185.5	185.11 ug/L	185.11 ppb	23:48:31
2	Sb 206.836†	31.4	7.6	2.4122 ug/L	2.4122 ppb	23:48:31
2	Se 196.026†	-20.7	-14.4	-5.1284 ug/L	-5.1284 ppb	23:48:31
2	Si 251.611†	31649.4	31641.6	1674.3 ug/L	1674.3 ppb	23:48:10
2	Sn 189.927†	-53.9	-54.4	-5.8440 ug/L	-5.8440 ppb	23:48:31
2	Ti 334.940†	-348.2	-927.9	0.8195 ug/L	0.8195 ppb	23:48:10
2	Tl 190.801†	-17.8	17.7	7.1865 ug/L	7.1865 ppb	23:48:31
2	U 409.014†	571.7	458.0	18.779 ug/L	18.779 ppb	23:48:10
2	V 292.402†	-280.5	-10.5	-0.0435 ug/L	-0.0435 ppb	23:48:31
2	Zn 213.857†	827.5	379.5	3.9442 ug/L	3.9442 ppb	23:48:31
2	SiO2†	31609.0	31611.3	3570.0 ug/L	3570.0 ppb	23:49:08
3	Sc Radial	35305.8	35305.8	100 %		23:47:16
3	Y RADIAL	24374.4	24374.4	99.27 %		23:47:16
3	Al 396.153Radial†	-17.3	25.8	11.850 ug/L	11.850 ppb	23:47:16
3	Ca 317.933Radial†	30992.8	30878.3	21144 ug/L	21144 ppb	23:47:16
3	Fe 238.204 Radial†	42.5	0.3	3.5595 ug/L	3.5595 ppb	23:47:36
3	K 766.490 Radial†	4037.2	3012.3	523.62 ug/L	523.62 ppb	23:47:16
3	Mg 279.077 IEC†	251.5	248.2	3969.0 ug/L	3969.0 ppb	23:47:36
3	Na 589.592 Radial†	79632.7	79373.9	6052.3 ug/L	6052.3 ppb	23:47:16
3	Sr 421.552†	20547.3	20167.5	46.631 ug/L	46.631 ppb	23:47:16
3	Sc 361.383	951521.1	951521.1	98.275 %		23:48:36
3	Y 371.029	655300.5	655300.5	97.359 %		23:48:36
3	Ag 328.068†	58.5	-10.3	-1.4052 ug/L	-1.4052 ppb	23:48:36
3	As 188.979†	2.9	21.3	9.1839 ug/L	9.1839 ppb	23:48:57
3	B 249.677†	545.0	303.8	9.2373 ug/L	9.2373 ppb	23:48:57
3	Ba 233.527†	3513.6	3592.9	57.942 ug/L	57.942 ppb	23:48:57
3	Be 313.107†	-2988.1	-131.6	-0.0727 ug/L	-0.0727 ppb	23:48:36
3	Cd 226.502†	-77.5	19.0	0.2847 ug/L	0.2847 ppb	23:48:57
3	Co 228.616†	-33.8	-6.3	-0.1557 ug/L	-0.1557 ppb	23:48:57
3	Cr 267.716†	-41.3	-4.5	-0.0622 ug/L	-0.0622 ppb	23:48:57
3	Cu 324.752†	3251.2	75.7	0.4203 ug/L	0.4203 ppb	23:48:36
3	Mn 257.610†	2467.6	2361.4	5.2398 ug/L	5.2398 ppb	23:48:57
3	Mo 202.031†	11.6	-7.6	-0.3274 ug/L	-0.3274 ppb	23:48:57
3	Ni 231.604†	160.9	5.3	0.1383 ug/L	0.1383 ppb	23:48:57
3	P 214.914†	-158.2	11.0	9.3133 ug/L	9.3133 ppb	23:48:57
3	Pb 220.353†	76.6	6.5	0.8129 ug/L	0.8129 ppb	23:48:57
3	S 181.975 Axial†	213.5	180.8	180.37 ug/L	180.37 ppb	23:48:57
3	Sb 206.836†	33.3	9.7	3.2874 ug/L	3.2874 ppb	23:48:57
3	Se 196.026†	-19.9	-13.8	-4.7889 ug/L	-4.7889 ppb	23:48:57
3	Si 251.611†	31403.8	31541.9	1669.0 ug/L	1669.0 ppb	23:48:36
3	Sn 189.927†	-60.3	-61.2	-6.7296 ug/L	-6.7296 ppb	23:48:57
3	Ti 334.940†	-267.1	-847.1	0.9449 ug/L	0.9449 ppb	23:48:36
3	Tl 190.801†	-31.0	4.2	1.0847 ug/L	1.0847 ppb	23:48:57
3	U 409.014†	642.1	532.4	22.470 ug/L	22.470 ppb	23:48:36
3	V 292.402†	-237.2	32.3	0.3456 ug/L	0.3456 ppb	23:48:57
3	Zn 213.857†	800.3	355.8	3.6552 ug/L	3.6552 ppb	23:48:57
3	SiO2†	31604.9	31757.3	3586.4 ug/L	3586.4 ppb	23:49:13

Mean Data: 184428003|626724|5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	958628.8	99.009	%	0.9024				0.91%
Sc Radial	35492.8	101	%	0.5				0.47%
Y 371.029	659702.7	98.013	%	0.7418				0.76%
Y RADIAL	24538.8	99.93	%	0.591				0.59%
Ag 328.068†	-34.5	-1.5822	ug/L	0.18147	-1.5822	ppb	0.18147	11.47%
Al 396.153Radial†	27.3	12.507	ug/L	5.7912	12.507	ppb	5.7912	46.30%
As 188.979†	15.3	6.3232	ug/L	2.49795	6.3232	ppb	2.49795	39.50%
B 249.677†	280.8	8.5410	ug/L	0.60300	8.5410	ppb	0.60300	7.06%
Ba 233.527†	3581.9	57.763	ug/L	0.4579	57.763	ppb	0.4579	0.79%
Be 313.107†	-109.8	-0.0613	ug/L	0.01202	-0.0613	ppb	0.01202	19.60%
Ca 317.933Radial†	30918.2	21172	ug/L	88.4	21172	ppb	88.4	0.42%
Cd 226.502†	23.9	0.3543	ug/L	0.06053	0.3543	ppb	0.06053	17.08%
Co 228.616†	-2.8	-0.0531	ug/L	0.09056	-0.0531	ppb	0.09056	170.51%
Cr 267.716†	-6.7	-0.0980	ug/L	0.15046	-0.0980	ppb	0.15046	153.56%
Cu 324.752†	72.1	0.3998	ug/L	0.02826	0.3998	ppb	0.02826	7.07%
Fe 238.204 Radial†	-0.2	-2.3187	ug/L	13.82514	-2.3187	ppb	13.82514	596.26%
K 766.490 Radial†	3056.4	531.26	ug/L	7.770	531.26	ppb	7.770	1.46%

Mg 279.077 IEC†	249.4	3988.3 ug/L	17.03	3988.3 ppb	17.03	0.43%
Mn 257.610†	2351.2	5.2164 ug/L	0.02539	5.2164 ppb	0.02539	0.49%
Mo 202.031†	-6.2	-0.2686 ug/L	0.12442	-0.2686 ppb	0.12442	46.32%
Na 589.592 Radial†	79620.7	6071.1 ug/L	16.98	6071.1 ppb	16.98	0.28%
Ni 231.604†	8.0	0.2223 ug/L	0.07349	0.2223 ppb	0.07349	33.06%
P 214.914†	7.8	6.6376 ug/L	2.52041	6.6376 ppb	2.52041	37.97%
Pb 220.353†	6.5	0.8075 ug/L	0.13997	0.8075 ppb	0.13997	17.33%
S 181.975 Axial†	180.8	180.42 ug/L	4.662	180.42 ppb	4.662	2.58%
Sb 206.836†	8.2	2.6783 ug/L	0.52888	2.6783 ppb	0.52888	19.75%
Se 196.026†	-11.4	-3.7408 ug/L	2.11624	-3.7408 ppb	2.11624	56.57%
Si 251.611†	31558.1	1669.9 ug/L	4.05	1669.9 ppb	4.05	0.24%
Sn 189.927†	-58.3	-6.3493 ug/L	0.45584	-6.3493 ppb	0.45584	7.18%
Sr 421.552†	20246.5	46.816 ug/L	0.1624	46.816 ppb	0.1624	0.35%
Ti 334.940†	-845.0	0.9529 ug/L	0.13756	0.9529 ppb	0.13756	14.44%
Tl 190.801†	12.0	4.6045 ug/L	3.15714	4.6045 ppb	3.15714	68.57%
U 409.014†	489.0	20.324 ug/L	1.9179	20.324 ppb	1.9179	9.44%
V 292.402†	13.2	0.1688 ug/L	0.19695	0.1688 ppb	0.19695	116.69%
Zn 213.857†	354.0	3.6331 ug/L	0.32276	3.6331 ppb	0.32276	8.88%
SiO2†	31630.9	3572.2 ug/L	13.31	3572.2 ppb	13.31	0.37%

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

Autosampler Location: 7
 Date Collected: 4/23/2007 23:51:25
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	35095.7	35095.7	99.5 %		23:53:13
1	Y RADIAL	24236.7	24236.7	98.70 %		23:53:13
1	Al 396.153Radial†	10698.7	10791.6	4944.1 ug/L	4944.1 ppb	23:53:13
1	Ca 317.933Radial†	7366.9	7327.7	5019.2 ug/L	5019.2 ppb	23:53:33
1	Fe 238.204 Radial†	491.3	451.5	4996.7 ug/L	4996.7 ppb	23:53:33
1	K 766.490 Radial†	31137.5	30263.0	5238.5 ug/L	5238.5 ppb	23:53:13
1	Mg 279.077 IEC†	317.2	315.6	5054.2 ug/L	5054.2 ppb	23:53:33
1	Na 589.592 Radial†	131248.8	131706.7	10047 ug/L	10047 ppb	23:53:13
1	Sr 421.552†	211694.7	212328.6	497.54 ug/L	497.54 ppb	23:53:13
1	Sc 361.383	966858.4	966858.4	99.859 %		23:54:34
1	Y 371.029	664400.0	664400.0	98.711 %		23:54:34
1	Ag 328.068†	70585.3	70615.2	508.00 ug/L	508.00 ppb	23:54:39
1	As 188.979†	1027.4	1047.3	501.62 ug/L	501.62 ppb	23:54:59
1	B 249.677†	16732.2	16505.1	496.64 ug/L	496.64 ppb	23:54:39
1	Ba 233.527†	31266.0	31327.8	506.18 ug/L	506.18 ppb	23:54:39
1	Be 313.107†	965351.5	969624.7	506.28 ug/L	506.28 ppb	23:54:34
1	Cd 226.502†	35188.3	35335.8	508.29 ug/L	508.29 ppb	23:54:39
1	Co 228.616†	17229.3	17281.8	510.81 ug/L	510.81 ppb	23:54:39
1	Cr 267.716†	31102.5	31184.0	507.73 ug/L	507.73 ppb	23:54:39
1	Cu 324.752†	93278.9	90178.1	500.62 ug/L	500.62 ppb	23:54:39
1	Mn 257.610†	222623.9	222789.1	502.57 ug/L	502.57 ppb	23:54:39
1	Mo 202.031†	11632.3	11629.4	500.89 ug/L	500.89 ppb	23:54:59
1	Ni 231.604†	16399.4	16264.1	511.76 ug/L	511.76 ppb	23:54:39
1	P 214.914†	2799.8	2975.8	2493.7 ug/L	2493.7 ppb	23:54:59
1	Pb 220.353†	3987.6	3921.8	503.05 ug/L	503.05 ppb	23:54:59
1	S 181.975 Axial†	1013.6	978.5	987.91 ug/L	987.91 ppb	23:54:59
1	Sb 206.836†	1278.6	1256.2	505.97 ug/L	505.97 ppb	23:54:59
1	Se 196.026†	1126.4	1134.6	516.63 ug/L	516.63 ppb	23:54:59
1	Si 251.611†	47823.5	47477.9	2507.4 ug/L	2507.4 ppb	23:54:39
1	Sn 189.927†	3839.8	3845.4	497.53 ug/L	497.53 ppb	23:54:59
1	Ti 334.940†	282577.9	282402.0	496.57 ug/L	496.57 ppb	23:54:39
1	Tl 190.801†	1074.5	1111.8	505.96 ug/L	505.96 ppb	23:54:59
1	U 409.014†	10700.3	10594.5	517.68 ug/L	517.68 ppb	23:54:39
1	V 292.402†	55481.5	55833.5	488.87 ug/L	488.87 ppb	23:54:39
1	Zn 213.857†	42114.1	41715.0	509.29 ug/L	509.29 ppb	23:54:39
1	SiO2†	47687.5	47352.5	5347.7 ug/L	5347.7 ppb	23:56:09
2	Sc Radial	34829.2	34829.2	98.8 %		23:53:39
2	Y RADIAL	24090.5	24090.5	98.11 %		23:53:39
2	Al 396.153Radial†	10642.8	10817.4	4956.0 ug/L	4956.0 ppb	23:53:39
2	Ca 317.933Radial†	7267.5	7283.7	4989.0 ug/L	4989.0 ppb	23:53:59
2	Fe 238.204 Radial†	491.0	455.0	5035.4 ug/L	5035.4 ppb	23:53:59
2	K 766.490 Radial†	30969.0	30331.9	5250.4 ug/L	5250.4 ppb	23:53:39
2	Mg 279.077 IEC†	319.4	320.3	5130.1 ug/L	5130.1 ppb	23:53:59
2	Na 589.592 Radial†	130524.7	131982.7	10068 ug/L	10068 ppb	23:53:39
2	Sr 421.552†	210386.2	212631.4	498.25 ug/L	498.25 ppb	23:53:39
2	Sc 361.383	965512.9	965512.9	99.720 %		23:55:06
2	Y 371.029	663125.1	663125.1	98.522 %		23:55:06
2	Ag 328.068†	70277.0	70404.6	506.50 ug/L	506.50 ppb	23:55:11
2	As 188.979†	1025.3	1046.6	501.28 ug/L	501.28 ppb	23:55:32
2	B 249.677†	16701.6	16497.7	496.41 ug/L	496.41 ppb	23:55:11
2	Ba 233.527†	31063.9	31168.8	503.61 ug/L	503.61 ppb	23:55:11
2	Be 313.107†	967845.6	973473.0	508.28 ug/L	508.28 ppb	23:55:06
2	Cd 226.502†	34904.8	35100.7	504.90 ug/L	504.90 ppb	23:55:11
2	Co 228.616†	17065.5	17141.5	506.66 ug/L	506.66 ppb	23:55:11
2	Cr 267.716†	30832.9	30957.0	504.03 ug/L	504.03 ppb	23:55:11
2	Cu 324.752†	92966.9	89995.4	499.61 ug/L	499.61 ppb	23:55:11
2	Mn 257.610†	221220.2	221692.1	500.10 ug/L	500.10 ppb	23:55:11
2	Mo 202.031†	11568.6	11581.7	498.84 ug/L	498.84 ppb	23:55:32
2	Ni 231.604†	16243.4	16130.6	507.56 ug/L	507.56 ppb	23:55:11

2	P 214.914†	2782.1	2962.0	2482.1 ug/L	2482.1 ppb	23:55:32
2	Pb 220.353†	3960.9	3900.6	500.33 ug/L	500.33 ppb	23:55:32
2	S 181.975 Axial†	1000.6	966.9	976.15 ug/L	976.15 ppb	23:55:32
2	Sb 206.836†	1268.8	1248.1	502.70 ug/L	502.70 ppb	23:55:32
2	Se 196.026†	1117.6	1127.3	513.47 ug/L	513.47 ppb	23:55:32
2	Si 251.611†	47606.8	47327.4	2499.4 ug/L	2499.4 ppb	23:55:11
2	Sn 189.927†	3818.6	3829.5	495.47 ug/L	495.47 ppb	23:55:32
2	Ti 334.940†	280613.5	280826.4	493.81 ug/L	493.81 ppb	23:55:11
2	Tl 190.801†	1066.7	1105.5	503.09 ug/L	503.09 ppb	23:55:32
2	U 409.014†	10506.2	10414.7	508.83 ug/L	508.83 ppb	23:55:11
2	V 292.402†	55134.1	55562.6	486.47 ug/L	486.47 ppb	23:55:11
2	Zn 213.857†	41806.9	41465.7	506.23 ug/L	506.23 ppb	23:55:11
2	SiO2†	47155.8	46885.9	5295.0 ug/L	5295.0 ppb	23:56:15
3	Sc Radial	34551.5	34551.5	98.0 %		23:54:05
3	Y RADIAL	23887.4	23887.4	97.28 %		23:54:05
3	Al 396.153Radial†	10636.8	10897.8	4993.0 ug/L	4993.0 ppb	23:54:05
3	Ca 317.933Radial†	7305.9	7382.0	5056.4 ug/L	5056.4 ppb	23:54:25
3	Fe 238.204 Radial†	488.6	456.5	5052.4 ug/L	5052.4 ppb	23:54:25
3	K 766.490 Radial†	30866.2	30478.9	5275.9 ug/L	5275.9 ppb	23:54:05
3	Mg 279.077 IEC†	317.0	320.5	5132.2 ug/L	5132.2 ppb	23:54:25
3	Na 589.592 Radial†	129800.3	132305.5	10092 ug/L	10092 ppb	23:54:05
3	Sr 421.552†	209367.4	213303.6	499.82 ug/L	499.82 ppb	23:54:05
3	Sc 361.383	962925.0	962925.0	99.453 %		23:55:38
3	Y 371.029	661520.8	661520.8	98.283 %		23:55:38
3	Ag 328.068†	70236.5	70553.3	507.56 ug/L	507.56 ppb	23:55:43
3	As 188.979†	1020.9	1044.9	500.49 ug/L	500.49 ppb	23:56:04
3	B 249.677†	16598.3	16438.9	494.61 ug/L	494.61 ppb	23:55:43
3	Ba 233.527†	31018.3	31206.6	504.22 ug/L	504.22 ppb	23:55:43
3	Be 313.107†	962773.9	970981.9	506.99 ug/L	506.99 ppb	23:55:38
3	Cd 226.502†	34916.9	35207.0	506.43 ug/L	506.43 ppb	23:55:43
3	Co 228.616†	17055.6	17177.6	507.73 ug/L	507.73 ppb	23:55:43
3	Cr 267.716†	30759.5	30966.3	504.19 ug/L	504.19 ppb	23:55:43
3	Cu 324.752†	92997.2	90276.5	501.17 ug/L	501.17 ppb	23:55:43
3	Mn 257.610†	220670.9	221736.0	500.20 ug/L	500.20 ppb	23:55:43
3	Mo 202.031†	11528.9	11572.9	498.46 ug/L	498.46 ppb	23:56:04
3	Ni 231.604†	16184.7	16115.3	507.08 ug/L	507.08 ppb	23:55:43
3	P 214.914†	2771.3	2958.6	2479.2 ug/L	2479.2 ppb	23:56:04
3	Pb 220.353†	3940.8	3891.1	499.11 ug/L	499.11 ppb	23:56:04
3	S 181.975 Axial†	995.9	964.9	974.16 ug/L	974.16 ppb	23:56:04
3	Sb 206.836†	1269.0	1251.8	504.18 ug/L	504.18 ppb	23:56:04
3	Se 196.026†	1113.6	1126.3	513.08 ug/L	513.08 ppb	23:56:04
3	Si 251.611†	47486.3	47334.5	2499.8 ug/L	2499.8 ppb	23:55:43
3	Sn 189.927†	3810.1	3831.2	495.70 ug/L	495.70 ppb	23:56:04
3	Ti 334.940†	280616.1	281585.3	495.14 ug/L	495.14 ppb	23:55:43
3	Tl 190.801†	1068.7	1110.3	505.29 ug/L	505.29 ppb	23:56:04
3	U 409.014†	10558.8	10495.9	512.82 ug/L	512.82 ppb	23:55:43
3	V 292.402†	55076.4	55653.1	487.30 ug/L	487.30 ppb	23:55:43
3	Zn 213.857†	41757.0	41528.2	506.99 ug/L	506.99 ppb	23:55:43
3	SiO2†	47834.5	47695.4	5386.4 ug/L	5386.4 ppb	23:56:20

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	965098.8	99.677 %	0.2065			0.21%
Sc Radial	34825.4	98.8 %	0.77			0.78%
Y 371.029	663015.3	98.505 %	0.2143			0.22%
Y RADIAL	24071.5	98.03 %	0.714			0.73%
Ag 328.068†	70524.3	507.35 ug/L	0.774	507.35 ppb	0.774	0.15%
QC value within limits for Ag 328.068 Recovery = 101.47%						
Al 396.153Radial†	10835.6	4964.4 ug/L	25.53	4964.4 ppb	25.53	0.51%
QC value within limits for Al 396.153Radial Recovery = 99.29%						
As 188.979†	1046.3	501.13 ug/L	0.580	501.13 ppb	0.580	0.12%
QC value within limits for As 188.979 Recovery = 100.23%						
B 249.677†	16480.6	495.89 ug/L	1.115	495.89 ppb	1.115	0.22%
QC value within limits for B 249.677 Recovery = 99.18%						
Ba 233.527†	31234.4	504.67 ug/L	1.343	504.67 ppb	1.343	0.27%
QC value within limits for Ba 233.527 Recovery = 100.93%						
Be 313.107†	971359.9	507.18 ug/L	1.013	507.18 ppb	1.013	0.20%
QC value within limits for Be 313.107 Recovery = 101.44%						
Ca 317.933Radial†	7331.1	5021.5 ug/L	33.73	5021.5 ppb	33.73	0.67%

	QC value within limits for Ca 317.933Radial	Recovery = 100.43%					
Cd	226.502†	35214.5	506.54 ug/L	1.698	506.54 ppb	1.698	0.34%
	QC value within limits for Cd 226.502	Recovery = 101.31%					
Co	228.616†	17200.3	508.40 ug/L	2.152	508.40 ppb	2.152	0.42%
	QC value within limits for Co 228.616	Recovery = 101.68%					
Cr	267.716†	31035.8	505.32 ug/L	2.091	505.32 ppb	2.091	0.41%
	QC value within limits for Cr 267.716	Recovery = 101.06%					
Cu	324.752†	90150.0	500.47 ug/L	0.792	500.47 ppb	0.792	0.16%
	QC value within limits for Cu 324.752	Recovery = 100.09%					
Fe	238.204 Radial†	454.3	5028.2 ug/L	28.55	5028.2 ppb	28.55	0.57%
	QC value within limits for Fe 238.204 Radial	Recovery = 100.56%					
K	766.490 Radial†	30357.9	5254.9 ug/L	19.09	5254.9 ppb	19.09	0.36%
	QC value within limits for K 766.490 Radial	Recovery = 105.10%					
Mg	279.077 IEC†	318.8	5105.5 ug/L	44.43	5105.5 ppb	44.43	0.87%
	QC value within limits for Mg 279.077 IEC	Recovery = 102.11%					
Mn	257.610†	222072.4	500.96 ug/L	1.397	500.96 ppb	1.397	0.28%
	QC value within limits for Mn 257.610	Recovery = 100.19%					
Mo	202.031†	11594.7	499.40 ug/L	1.307	499.40 ppb	1.307	0.26%
	QC value within limits for Mo 202.031	Recovery = 99.88%					
Na	589.592 Radial†	131998.3	10069 ug/L	22.8	10069 ppb	22.8	0.23%
	QC value within limits for Na 589.592 Radial	Recovery = 100.69%					
Ni	231.604†	16170.0	508.80 ug/L	2.576	508.80 ppb	2.576	0.51%
	QC value within limits for Ni 231.604	Recovery = 101.76%					
P	214.914†	2965.4	2485.0 ug/L	7.68	2485.0 ppb	7.68	0.31%
	QC value within limits for P 214.914	Recovery = 99.40%					
Pb	220.353†	3904.5	500.83 ug/L	2.019	500.83 ppb	2.019	0.40%
	QC value within limits for Pb 220.353	Recovery = 100.17%					
S	181.975 Axial†	970.1	979.41 ug/L	7.429	979.41 ppb	7.429	0.76%
	QC value within limits for S 181.975 Axial	Recovery = 97.94%					
Sb	206.836†	1252.0	504.28 ug/L	1.637	504.28 ppb	1.637	0.32%
	QC value within limits for Sb 206.836	Recovery = 100.86%					
Se	196.026†	1129.4	514.39 ug/L	1.950	514.39 ppb	1.950	0.38%
	QC value within limits for Se 196.026	Recovery = 102.88%					
Si	251.611†	47379.9	2502.2 ug/L	4.48	2502.2 ppb	4.48	0.18%
	QC value within limits for Si 251.611	Recovery = 100.09%					
Sn	189.927†	3835.4	496.23 ug/L	1.128	496.23 ppb	1.128	0.23%
	QC value within limits for Sn 189.927	Recovery = 99.25%					
Sr	421.552†	212754.6	498.53 ug/L	1.169	498.53 ppb	1.169	0.23%
	QC value within limits for Sr 421.552	Recovery = 99.71%					
Ti	334.940†	281604.6	495.17 ug/L	1.384	495.17 ppb	1.384	0.28%
	QC value within limits for Ti 334.940	Recovery = 99.03%					
Tl	190.801†	1109.2	504.78 ug/L	1.504	504.78 ppb	1.504	0.30%
	QC value within limits for Tl 190.801	Recovery = 100.96%					
U	409.014†	10501.7	513.11 ug/L	4.436	513.11 ppb	4.436	0.86%
	QC value within limits for U 409.014	Recovery = 102.62%					
V	292.402†	55683.1	487.55 ug/L	1.218	487.55 ppb	1.218	0.25%
	QC value within limits for V 292.402	Recovery = 97.51%					
Zn	213.857†	41569.7	507.50 ug/L	1.594	507.50 ppb	1.594	0.31%
	QC value within limits for Zn 213.857	Recovery = 101.50%					
SiO2†		47311.3	5343.0 ug/L	45.89	5343.0 ppb	45.89	0.86%
	QC value within limits for SiO2	Recovery = 99.92%					
All analyte(s) passed QC.							

Sequence No.: 8
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 4/23/2007 23:58:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	34627.3	34627.3	98.2 %		00:00:17
1	Y RADIAL	24121.2	24121.2	98.23 %		00:00:17
1	Al 396.153Radial†	-67.0	-25.1	-11.563 ug/L	-11.563 ppb	00:00:17
1	Ca 317.933Radial†	69.5	-2.9	-1.9566 ug/L	-1.9566 ppb	00:00:37
1	Fe 238.204 Radial†	38.8	-2.5	-27.964 ug/L	-27.964 ppb	00:00:37
1	K 766.490 Radial†	1782.4	795.4	137.67 ug/L	137.67 ppb	00:00:17
1	Mg 279.077 IEC†	-0.1	-3.2	-51.096 ug/L	-51.096 ppb	00:00:37
1	Na 589.592 Radial†	465.3	320.0	24.414 ug/L	24.414 ppb	00:00:17
1	Sr 421.552†	352.3	6.0	0.0140 ug/L	0.0140 ppb	00:00:17
1	Sc 361.383	957059.5	957059.5	98.847 %		00:01:36
1	Y 371.029	663157.6	663157.6	98.526 %		00:01:36
1	Ag 328.068†	44.3	-25.0	-0.1887 ug/L	-0.1887 ppb	00:01:41
1	As 188.979†	-25.1	-7.0	-3.3321 ug/L	-3.3321 ppb	00:02:01
1	B 249.677†	418.0	172.2	5.2529 ug/L	5.2529 ppb	00:02:01
1	Ba 233.527†	-22.3	-5.0	-0.0796 ug/L	-0.0796 ppb	00:02:01
1	Be 313.107†	-2907.7	-32.7	-0.0165 ug/L	-0.0165 ppb	00:01:41
1	Cd 226.502†	-92.2	4.6	0.0696 ug/L	0.0696 ppb	00:02:01
1	Co 228.616†	-24.7	3.1	0.0911 ug/L	0.0911 ppb	00:02:01
1	Cr 267.716†	-38.8	-1.7	-0.0274 ug/L	-0.0274 ppb	00:02:01
1	Cu 324.752†	3229.3	34.3	0.1881 ug/L	0.1881 ppb	00:01:41
1	Mn 257.610†	179.8	32.4	0.0707 ug/L	0.0707 ppb	00:02:01
1	Mo 202.031†	23.8	4.7	0.1994 ug/L	0.1994 ppb	00:02:01
1	Ni 231.604†	162.9	6.3	0.1991 ug/L	0.1991 ppb	00:02:01
1	P 214.914†	-157.3	12.9	10.885 ug/L	10.885 ppb	00:02:01
1	Pb 220.353†	84.1	13.7	1.7531 ug/L	1.7531 ppb	00:02:01
1	S 181.975 Axial†	39.5	3.4	3.4441 ug/L	3.4441 ppb	00:02:01
1	Sb 206.836†	27.7	3.8	1.5446 ug/L	1.5446 ppb	00:02:01
1	Se 196.026†	-9.2	-2.7	-1.2794 ug/L	-1.2794 ppb	00:02:01
1	Si 251.611†	440.0	32.0	1.6935 ug/L	1.6935 ppb	00:02:01
1	Sn 189.927†	-1.1	-0.9	-0.1211 ug/L	-0.1211 ppb	00:02:01
1	Ti 334.940†	675.0	107.6	0.1882 ug/L	0.1882 ppb	00:01:41
1	Tl 190.801†	-35.2	0.1	0.0293 ug/L	0.0293 ppb	00:02:01
1	U 409.014†	148.1	28.8	1.4290 ug/L	1.4290 ppb	00:01:41
1	V 292.402†	-293.3	-23.1	-0.2101 ug/L	-0.2101 ppb	00:01:41
1	Zn 213.857†	731.4	281.3	3.4534 ug/L	3.4534 ppb	00:02:01
1	SiO2†	507.6	111.1	12.549 ug/L	12.549 ppb	00:03:23
2	Sc Radial	35097.5	35097.5	99.5 %		00:00:42
2	Y RADIAL	24486.5	24486.5	99.72 %		00:00:42
2	Al 396.153Radial†	-52.8	-9.9	-4.5755 ug/L	-4.5755 ppb	00:00:42
2	Ca 317.933Radial†	65.3	-8.0	-5.4792 ug/L	-5.4792 ppb	00:01:03
2	Fe 238.204 Radial†	39.2	-2.7	-29.642 ug/L	-29.642 ppb	00:01:03
2	K 766.490 Radial†	1803.3	792.0	137.09 ug/L	137.09 ppb	00:00:42
2	Mg 279.077 IEC†	-0.9	-3.9	-62.775 ug/L	-62.775 ppb	00:01:03
2	Na 589.592 Radial†	544.6	393.3	29.985 ug/L	29.985 ppb	00:00:42
2	Sr 421.552†	389.5	38.5	0.0905 ug/L	0.0905 ppb	00:00:42
2	Sc 361.383	957786.3	957786.3	98.922 %		00:02:06
2	Y 371.029	663920.0	663920.0	98.640 %		00:02:06
2	Ag 328.068†	47.6	-21.7	-0.1632 ug/L	-0.1632 ppb	00:02:12
2	As 188.979†	-17.5	0.7	0.3474 ug/L	0.3474 ppb	00:02:32
2	B 249.677†	421.5	175.3	5.3494 ug/L	5.3494 ppb	00:02:32
2	Ba 233.527†	-16.5	1.0	0.0170 ug/L	0.0170 ppb	00:02:32
2	Be 313.107†	-2896.3	-18.9	-0.0095 ug/L	-0.0095 ppb	00:02:12
2	Cd 226.502†	-95.4	1.4	0.0229 ug/L	0.0229 ppb	00:02:32
2	Co 228.616†	-21.1	6.7	0.1982 ug/L	0.1982 ppb	00:02:32
2	Cr 267.716†	-30.6	6.6	0.1061 ug/L	0.1061 ppb	00:02:32
2	Cu 324.752†	3226.7	29.3	0.1598 ug/L	0.1598 ppb	00:02:12
2	Mn 257.610†	190.4	43.0	0.0955 ug/L	0.0955 ppb	00:02:32
2	Mo 202.031†	20.6	1.4	0.0599 ug/L	0.0599 ppb	00:02:32
2	Ni 231.604†	157.4	0.6	0.0199 ug/L	0.0199 ppb	00:02:32

2	P 214.914†	-160.8	9.5	8.0321 ug/L	8.0321 ppb	00:02:32
2	Pb 220.353†	79.2	8.6	1.1066 ug/L	1.1066 ppb	00:02:32
2	S 181.975 Axial†	34.0	-2.1	-2.1246 ug/L	-2.1246 ppb	00:02:32
2	Sb 206.836†	28.5	4.6	1.8494 ug/L	1.8494 ppb	00:02:32
2	Se 196.026†	-8.4	-1.9	-0.9220 ug/L	-0.9220 ppb	00:02:32
2	Si 251.611†	449.6	41.4	2.1963 ug/L	2.1963 ppb	00:02:32
2	Sn 189.927†	-1.0	-0.9	-0.1177 ug/L	-0.1177 ppb	00:02:32
2	Ti 334.940†	640.0	71.7	0.1259 ug/L	0.1259 ppb	00:02:12
2	Tl 190.801†	-35.9	-0.5	-0.2468 ug/L	-0.2468 ppb	00:02:32
2	U 409.014†	99.2	-20.7	-1.0151 ug/L	-1.0151 ppb	00:02:12
2	V 292.402†	-272.8	-2.2	-0.0205 ug/L	-0.0205 ppb	00:02:12
2	Zn 213.857†	743.7	293.2	3.6004 ug/L	3.6004 ppb	00:02:32
2	SiO2†	527.9	131.2	14.822 ug/L	14.822 ppb	00:03:43
3	Sc Radial	34644.0	34644.0	98.3 %		00:01:08
3	Y RADIAL	24132.3	24132.3	98.28 %		00:01:08
3	Al 396.153Radial†	-38.6	3.8	1.7481 ug/L	1.7481 ppb	00:01:08
3	Ca 317.933Radial†	69.7	-2.6	-1.8084 ug/L	-1.8084 ppb	00:01:28
3	Fe 238.204 Radial†	40.3	-1.1	-11.786 ug/L	-11.786 ppb	00:01:28
3	K 766.490 Radial†	1797.6	809.9	140.18 ug/L	140.18 ppb	00:01:08
3	Mg 279.077 IEC†	-0.5	-3.6	-57.700 ug/L	-57.700 ppb	00:01:28
3	Na 589.592 Radial†	555.6	411.6	31.414 ug/L	31.414 ppb	00:01:08
3	Sr 421.552†	346.1	-0.5	-0.0010 ug/L	-0.0010 ppb	00:01:08
3	Sc 361.383	961269.4	961269.4	99.282 %		00:02:37
3	Y 371.029	667041.4	667041.4	99.103 %		00:02:37
3	Ag 328.068†	32.1	-37.5	-0.2707 ug/L	-0.2707 ppb	00:02:42
3	As 188.979†	-21.4	-3.1	-1.4994 ug/L	-1.4994 ppb	00:03:03
3	B 249.677†	411.9	164.1	4.9989 ug/L	4.9989 ppb	00:03:03
3	Ba 233.527†	-14.9	2.7	0.0434 ug/L	0.0434 ppb	00:03:03
3	Be 313.107†	-2896.6	-8.6	-0.0039 ug/L	-0.0039 ppb	00:02:42
3	Cd 226.502†	-88.6	8.6	0.1268 ug/L	0.1268 ppb	00:03:03
3	Co 228.616†	-25.8	2.1	0.0626 ug/L	0.0626 ppb	00:03:03
3	Cr 267.716†	-32.6	4.7	0.0774 ug/L	0.0774 ppb	00:03:03
3	Cu 324.752†	3216.8	7.5	0.0405 ug/L	0.0405 ppb	00:02:42
3	Mn 257.610†	195.3	47.2	0.1054 ug/L	0.1054 ppb	00:03:03
3	Mo 202.031†	27.5	8.3	0.3561 ug/L	0.3561 ppb	00:03:03
3	Ni 231.604†	152.2	-5.2	-0.1637 ug/L	-0.1637 ppb	00:03:03
3	P 214.914†	-155.5	15.4	13.003 ug/L	13.003 ppb	00:03:03
3	Pb 220.353†	77.8	6.9	0.8854 ug/L	0.8854 ppb	00:03:03
3	S 181.975 Axial†	33.6	-2.7	-2.7345 ug/L	-2.7345 ppb	00:03:03
3	Sb 206.836†	25.2	1.2	0.4788 ug/L	0.4788 ppb	00:03:03
3	Se 196.026†	-15.2	-8.8	-3.9220 ug/L	-3.9220 ppb	00:03:03
3	Si 251.611†	450.1	40.2	2.1246 ug/L	2.1246 ppb	00:03:03
3	Sn 189.927†	-0.4	-0.2	-0.0331 ug/L	-0.0331 ppb	00:03:03
3	Ti 334.940†	680.9	110.5	0.1922 ug/L	0.1922 ppb	00:02:42
3	Tl 190.801†	-34.5	0.9	0.4247 ug/L	0.4247 ppb	00:03:03
3	U 409.014†	186.2	66.6	3.2881 ug/L	3.2881 ppb	00:02:42
3	V 292.402†	-265.6	6.1	0.0506 ug/L	0.0506 ppb	00:02:42
3	Zn 213.857†	725.0	271.6	3.3331 ug/L	3.3331 ppb	00:03:03
3	SiO2†	460.2	61.1	6.9041 ug/L	6.9041 ppb	00:04:04

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	958705.1	99.017 %	0.2324			0.23%
Sc Radial	34789.6	98.7 %	0.76			0.77%
Y 371.029	664706.3	98.757 %	0.3057			0.31%
Y RADIAL	24246.7	98.74 %	0.846			0.86%
Ag 328.068†	-28.1	-0.2075 ug/L	0.05620	-0.2075 ppb	0.05620	27.08%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-10.4	-4.7968 ug/L	6.65839	-4.7968 ppb	6.65839	138.81%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.1	-1.4947 ug/L	1.83975	-1.4947 ppb	1.83975	123.08%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	170.5	5.2004 ug/L	0.18102	5.2004 ppb	0.18102	3.48%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.4	-0.0064 ug/L	0.06475	-0.0064 ppb	0.06475	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-20.1	-0.0100 ug/L	0.00628	-0.0100 ppb	0.00628	62.98%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-4.5	-3.0814 ug/L	2.07784	-3.0814 ppb	2.07784	67.43%

	QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	4.9	0.0731 ug/L	0.05205	0.0731 ppb	0.05205	71.22%	
	QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.0	0.1173 ug/L	0.07151	0.1173 ppb	0.07151	60.97%	
	QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	3.2	0.0520 ug/L	0.07028	0.0520 ppb	0.07028	135.10%	
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	23.7	0.1295 ug/L	0.07837	0.1295 ppb	0.07837	60.54%	
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-2.1	-23.130 ug/L	9.8604	-23.130 ppb	9.8604	42.63%	
	QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	799.1	138.31 ug/L	1.646	138.31 ppb	1.646	1.19%	
	QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-3.6	-57.191 ug/L	5.8563	-57.191 ppb	5.8563	10.24%	
	QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	40.9	0.0905 ug/L	0.01785	0.0905 ppb	0.01785	19.72%	
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.8	0.2051 ug/L	0.14821	0.2051 ppb	0.14821	72.25%	
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	375.0	28.604 ug/L	3.6986	28.604 ppb	3.6986	12.93%	
	QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	0.6	0.0185 ug/L	0.18139	0.0185 ppb	0.18139	982.95%	
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	12.6	10.640 ug/L	2.4943	10.640 ppb	2.4943	23.44%	
	QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	9.7	1.2484 ug/L	0.45086	1.2484 ppb	0.45086	36.12%	
	QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.5	-0.4717 ug/L	3.40483	-0.4717 ppb	3.40483	721.84%	
	QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.2	1.2909 ug/L	0.71962	1.2909 ppb	0.71962	55.74%	
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-4.5	-2.0411 ug/L	1.63865	-2.0411 ppb	1.63865	80.28%	
	QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	37.8	2.0048 ug/L	0.27198	2.0048 ppb	0.27198	13.57%	
	QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.7	-0.0906 ug/L	0.04985	-0.0906 ppb	0.04985	55.01%	
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	14.7	0.0345 ug/L	0.04908	0.0345 ppb	0.04908	142.33%	
	QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	96.6	0.1688 ug/L	0.03721	0.1688 ppb	0.03721	22.04%	
	QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.1	0.0691 ug/L	0.33749	0.0691 ppb	0.33749	488.56%	
	QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	24.9	1.2340 ug/L	2.15819	1.2340 ppb	2.15819	174.90%	
	QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-6.4	-0.0600 ug/L	0.13479	-0.0600 ppb	0.13479	224.70%	
	QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	282.0	3.4623 ug/L	0.13388	3.4623 ppb	0.13388	3.87%	
	QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	101.2	11.425 ug/L	4.0770	11.425 ppb	4.0770	35.68%	
	QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.							

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, April 23, 2007 09:38:01

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.4524

Tuning File: c:\elandata\Tuning\default2.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Number of Replicates: 5

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens. SD	Net Intens. RSD
Be	9.0		2958.9		2958.906	37.147	1.3
Mg	24.0		30300.7		30300.705	386.094	1.3
Co	58.9		78221.4		78221.389	923.433	1.2
Rh	102.9		148654.2		148654.241	642.412	0.4
In	114.9		198318.7		198318.710	1176.235	0.6
Pb	208.0		97834.3		97834.267	466.261	0.5
[> Ba	137.9		164302.0		164301.991	696.904	0.4
[Ba++	69.0		4489.7		0.027	0.000	1.3
[> Ce	139.9		202027.1		202027.106	684.983	0.3
[CeO	155.9		3351.5		0.017	0.000	1.5
Bkgd	220.0		10.5		10.500	2.121	20.2

Current Optimization File Data

Current Value	Description
0.93	Nebulizer Gas Flow
7.50	Lens Voltage
1450.00	ICP RF Power
-1875.00	Analog Stage Voltage
1350.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	7.8	3292.0
Co	59	21	8.0	86489.4
In	115	21	9.3	222443.8

ICPMS#3 Instrument Tuning Report

File Name: 070423.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	597	2080	0.629
Be	9.0	9.0	2030	2080	0.669
Mg	24.0	23.9	5711	2140	0.660
Mg	25.0	24.9	5834	2030	0.649
Mg	26.0	26.0	6234	2160	0.649
Co	58.9	58.9	14165	2140	0.633
Rh	102.9	102.9	24872	2200	0.659
In	114.9	114.9	27784	2210	0.678
Ce	139.9	139.9	33872	2260	0.642
Pb	206.0	206.0	49955	2350	0.660
Pb	207.0	207.0	50226	2410	0.612
Pb	208.0	208.0	50431	2340	0.638
U	238.1	238.0	57770	2420	0.679

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, April 23, 2007 14:19:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\Blank.076

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	ug/L		45	
| Be	9	ug/L		9	
| B	11	ug/L		668	
| Na	23	ug/L		4001	
| Mg	24	ug/L		333	
| Al	27	ug/L		2000	
| P	31	ug/L		4169	
| K	39	ug/L		810040	
| Ca	43	ug/L		487	
> Sc	45	ug/L		350947	
| Ti	47	ug/L		323	
| V	51	ug/L		-362	
| Cr	52	ug/L		900	
| Cr	53	ug/L		119851	
| Mn	55	ug/L		1249	
| Fe	57	ug/L		9681	
| Co	59	ug/L		134	
| Ni	60	ug/L		70	
| Cu	63	ug/L		379	
[Cu	65	ug/L		81	
[Zn	66	ug/L		271	
| Zn	67	ug/L		10708	
| Zn	68	ug/L		1246	
> Ge	74	ug/L		399322	
| As	75	ug/L		3091	
| Se	77	ug/L		5326	
| Se	82	ug/L		-64	
[Kr	83	ug/L		1148	
[Sr	88	ug/L		308	
| Y	89	ug/L		63	
| Zr	90	ug/L		1666	
| Mo	98	ug/L		194	
| Ag	107	ug/L		28	
| Cd	111	ug/L		71	
| Cd	114	ug/L		138	
> In	115	ug/L		248883	
| Sn	120	ug/L		696	
| Sb	121	ug/L		1196	
[Sb	123	ug/L		949	
[Ba	135	ug/L		31	
| Ba	137	ug/L		68	
| Ho	165	ug/L		19	
> Lu	175	ug/L		305661	
| Tl	205	ug/L		715	
| Pb	208	ug/L		662	
| Th	232	ug/L		1956	
[U	238	ug/L		123	

Sample ID: Blank

Report Date/Time: Monday, April 23, 2007 14:21:50

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Simple Linear	
Be	9Simple Linear	
B	11Simple Linear	
Na	23Simple Linear	
Mg	24Simple Linear	
Al	27Simple Linear	
P	31Simple Linear	
K	39Simple Linear	
Ca	43Simple Linear	
Sc	45Simple Linear	
Ti	47Simple Linear	
V	51Simple Linear	
Cr	52Simple Linear	
Cr	53Simple Linear	
Mn	55Simple Linear	
Fe	57Simple Linear	
Co	59Simple Linear	
Ni	60Simple Linear	
Cu	63Simple Linear	
Cu	65Simple Linear	
Zn	66Simple Linear	
Zn	67Simple Linear	
Zn	68Simple Linear	
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Sr	88Simple Linear	
Y	89Simple Linear	
Zr	90Simple Linear	
Mo	98Simple Linear	
Ag	107Simple Linear	
Cd	111Simple Linear	
Cd	114Simple Linear	
In	115Linear Thru Zero	
Sn	120Simple Linear	
Sb	121Linear Thru Zero	
Sb	123Linear Thru Zero	
Ba	135Simple Linear	
Ba	137Simple Linear	
Ho	165Simple Linear	
Lu	175Simple Linear	
Tl	205Simple Linear	
Pb	208Simple Linear	
Th	232Simple Linear	
U	238Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, April 23, 2007 14:23:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\Standard 1.077

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
| Li	7	10.000 ug/L	1.334	9745	0.027
| Be	9	10.000 ug/L	2.991	2920	0.008
| B	11	20.000 ug/L	3.023	5645	0.014
| Na	23	1000.000 ug/L	5.320	2043430	5.643
| Mg	24	1000.000 ug/L	6.345	1529478	4.234
| Al	27	1000.000 ug/L	16.626	2873247	7.941
| P	31	1000.000 ug/L	1.846	187376	0.507
| K	39	1000.000 ug/L	11.401	6125004	14.660
| Ca	43	1000.000 ug/L	2.599	10372	0.027
> Sc	45	ug/L		361393	361392.590
| Ti	47	10.000 ug/L	1.912	4910	0.013
| V	51	10.000 ug/L	5.484	48835	0.136
| Cr	52	10.000 ug/L	3.512	48062	0.130
| Cr	53	ug/L		120483	-0.008
| Mn	55	10.000 ug/L	2.554	82577	0.225
| Fe	57	1000.000 ug/L	2.408	174218	0.455
| Co	59	10.000 ug/L	1.724	60157	0.166
| Ni	60	10.000 ug/L	0.736	12739	0.035
| Cu	63	ug/L		30831	0.084
| Cu	65	10.000 ug/L	1.893	14476	0.040
| Zn	66	10.000 ug/L	2.278	10917	0.026
| Zn	67	ug/L		11856	0.002
| Zn	68	ug/L		8916	0.019
> Ge	74	ug/L		407817	407817.397
| As	75	10.000 ug/L	2.767	15349	0.030
| Se	77	ug/L		5716	0.001
| Se	82	10.000 ug/L	3.697	1067	0.003
| Kr	83	ug/L		1226	0.000
| Sr	88	10.000 ug/L	0.287	134765	0.515
| Y	89	ug/L		61	-0.000
| Zr	90	10.000 ug/L	3.889	69014	0.257
| Mo	98	10.000 ug/L	0.346	31613	0.120
| Ag	107	10.000 ug/L	1.358	55341	0.212
| Cd	111	10.000 ug/L	1.647	13240	0.050
| Cd	114	ug/L		32497	0.124
> In	115	ug/L		261251	261251.138
| Sn	120	10.000 ug/L	2.460	55649	0.210
| Sb	121	10.000 ug/L	13.435	39762	0.147
| Sb	123	ug/L		30329	0.112
| Ba	135	ug/L		12445	0.039
| Ba	137	10.000 ug/L	0.737	21695	0.068
| Ho	165	ug/L		19	-0.000
> Lu	175	ug/L		319281	319280.837
| Tl	205	10.000 ug/L	0.543	137465	0.428
| Pb	208	10.000 ug/L	0.334	155610	0.485
| Th	232	10.000 ug/L	2.855	165765	0.513
| U	238	10.000 ug/L	0.123	172885	0.541

Sample ID: Standard 1

Report Date/Time: Monday, April 23, 2007 14:26:31

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
L Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
L Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Th	232					
L U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, April 23, 2007 14:28:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\Standard 2.078

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	99.973	ug/L	1.118	94679	0.261
Be	9	99.990	ug/L	0.900	28897	0.080
B	11	200.007	ug/L	2.001	50522	0.138
Na	23	9978.083	ug/L	4.733	16731450	46.188
Mg	24	10003.936	ug/L	3.017	15970698	44.097
Al	27	9998.034	ug/L	4.872	28202532	77.868
P	31	9997.027	ug/L	1.042	1785996	4.919
K	39	9989.154	ug/L	5.812	48682143	132.110
Ca	43	9997.069	ug/L	1.243	96591	0.265
> Sc	45		ug/L		362181	362180.569
Ti	47	100.008	ug/L	1.587	46594	0.128
V	51	99.958	ug/L	1.287	473150	1.307
Cr	52	99.969	ug/L	0.448	459074	1.265
Cr	53		ug/L		160037	0.100
Mn	55	99.957	ug/L	0.968	782313	2.156
Fe	57	9993.610	ug/L	0.702	1556640	4.270
Co	59	99.949	ug/L	0.760	572094	1.579
Ni	60	99.971	ug/L	1.283	123390	0.340
Cu	63		ug/L		292771	0.807
Cu	65	99.971	ug/L	0.628	140265	0.387
Zn	66	99.958	ug/L	1.256	102993	0.250
Zn	67		ug/L		25564	0.035
Zn	68		ug/L		76048	0.182
> Ge	74		ug/L		410360	410360.466
As	75	99.948	ug/L	1.417	119761	0.284
Se	77		ug/L		12778	0.018
Se	82	99.951	ug/L	1.475	10784	0.026
Kr	83		ug/L		1274	0.000
Sr	88	99.962	ug/L	1.003	1279288	4.958
Y	89		ug/L		126	0.000
Zr	90	100.057	ug/L	1.396	706460	2.732
Mo	98	100.010	ug/L	0.979	313544	1.215
Ag	107	99.985	ug/L	0.592	538208	2.086
Cd	111	99.992	ug/L	1.195	129033	0.500
Cd	114		ug/L		315393	1.222
> In	115		ug/L		257954	257953.902
Sn	120	99.996	ug/L	0.279	540842	2.094
Sb	121	100.173	ug/L	3.015	461864	1.786
Sb	123		ug/L		356232	1.377
Ba	135		ug/L		123772	0.381
Ba	137	99.975	ug/L	1.598	214467	0.660
Ho	165		ug/L		20	-0.000
> Lu	175		ug/L		324645	324644.599
Tl	205	99.960	ug/L	2.712	1336328	4.115
Pb	208	99.963	ug/L	1.565	1519455	4.679
Th	232	100.021	ug/L	1.212	1702320	5.238
U	238	99.957	ug/L	1.101	1682648	5.183

Sample ID: Standard 2

Report Date/Time: Monday, April 23, 2007 14:31:12

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, April 23, 2007 14:33:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 1.079

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.054	ug/L	5.041	49911	0.133
Be	9	50.551	ug/L	5.599	15076	0.040
B	11	104.471	ug/L	6.703	27554	0.072
Na	23	6121.143	ug/L	11.399	10597862	28.334
Mg	24	5260.584	ug/L	2.801	8681254	23.188
Al	27	4755.021	ug/L	9.961	13825258	37.034
P	31	5016.698	ug/L	6.815	926412	2.469
K	39	4779.637	ug/L	8.312	24460279	63.212
Ca	43	4945.700	ug/L	5.920	49552	0.131
> Sc	45		ug/L		374331	374331.388
Ti	47	49.040	ug/L	5.616	23746	0.063
V	51	50.668	ug/L	5.316	247245	0.663
Cr	52	50.197	ug/L	6.243	238221	0.635
Cr	53		ug/L		134663	0.018
Mn	55	49.875	ug/L	5.000	403464	1.076
Fe	57	4933.089	ug/L	4.800	798150	2.108
Co	59	49.760	ug/L	4.461	294003	0.786
Ni	60	50.117	ug/L	6.713	63826	0.171
Cu	63		ug/L		151472	0.404
Cu	65	50.489	ug/L	4.708	73142	0.195
Zn	66	51.868	ug/L	0.161	53493	0.130
Zn	67		ug/L		18001	0.017
Zn	68		ug/L		39976	0.094
> Ge	74		ug/L		409680	409680.091
As	75	47.799	ug/L	0.342	58835	0.136
Se	77		ug/L		8940	0.008
Se	82	53.214	ug/L	1.037	5701	0.014
Kr	83		ug/L		1208	0.000
Sr	88	52.073	ug/L	1.529	659742	2.583
Y	89		ug/L		111	0.000
Zr	90	49.905	ug/L	1.061	349660	1.363
Mo	98	50.477	ug/L	0.455	156734	0.613
Ag	107	52.139	ug/L	2.275	277744	1.088
Cd	111	52.206	ug/L	1.217	66711	0.261
Cd	114		ug/L		163858	0.641
> In	115		ug/L		255334	255333.942
Sn	120	50.204	ug/L	0.827	269115	1.051
Sb	121	51.270	ug/L	2.226	234631	0.914
Sb	123		ug/L		181578	0.707
Ba	135		ug/L		62170	0.194
Ba	137	50.583	ug/L	1.206	107333	0.334
Ho	165		ug/L		24	0.000
> Lu	175		ug/L		320987	320986.954
Tl	205	50.386	ug/L	1.500	666495	2.074
Pb	208	52.520	ug/L	0.843	789729	2.458
Th	232	52.138	ug/L	1.494	878421	2.730
U	238	52.834	ug/L	1.111	879522	2.740

Sample ID: QC Std 1

Report Date/Time: Monday, April 23, 2007 14:35:54

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	102.107				
Be	9	101.103				
B	11	104.471				
Na	23	122.423				
Mg	24	105.212				
Al	27	94.159				
P	31	100.334				
K	39	95.593				
Ca	43	98.914				
> Sc	45		106.7			
Ti	47	98.080				
V	51	101.336				
Cr	52	100.393				
Cr	53					
Mn	55	99.750				
Fe	57	98.662				
Co	59	99.520				
Ni	60	100.234				
Cu	63					
Cu	65	100.977				
Zn	66	103.736				
Zn	67					
Zn	68					
> Ge	74		102.6			
As	75	95.598				
Se	77					
Se	82	106.427				
Kr	83					
Sr	88	104.147				
Y	89					
Zr	90	99.810				
Mo	98	100.954				
Ag	107	104.278				
Cd	111	104.411				
Cd	114					
> In	115		102.6			
Sn	120	100.407				
Sb	121	102.540				
Sb	123					
Ba	135					
Ba	137	101.166				
Ho	165					
> Lu	175		105.0			
Tl	205	100.773				
Pb	208	105.040				
Th	232	104.277				
U	238	105.668				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 1	Na	23ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, April 23, 2007 14:37:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 2.080

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.009	ug/L	145.532	51	0.000
Be	9	0.008	ug/L	229.728	11	0.000
B	11	3.517	ug/L	28.597	1474	0.002
Na	23	-0.138	ug/L	545.047	3667	-0.001
Mg	24	1.120	ug/L	104.090	2000	0.005
Al	27	0.147	ug/L	152.203	2334	0.001
P	31	0.858	ug/L	21.885	4198	0.000
K	39	-10.455	ug/L	64.935	740387	-0.138
Ca	43	4.228	ug/L	142.578	511	0.000
> Sc	45		ug/L		341233	341232.792
Ti	47	0.086	ug/L	51.852	351	0.000
V	51	0.238	ug/L	178.559	705	0.003
Cr	52	0.076	ug/L	58.141	1204	0.001
Cr	53		ug/L		110982	-0.016
Mn	55	0.001	ug/L	640.544	1221	0.000
Fe	57	0.773	ug/L	72.120	9525	0.000
Co	59	0.014	ug/L	8.734	208	0.000
Ni	60	0.011	ug/L	40.648	81	0.000
Cu	63		ug/L		387	0.000
Cu	65	0.005	ug/L	140.961	85	0.000
Zn	66	-0.002	ug/L	311.894	262	-0.000
Zn	67		ug/L		10002	-0.001
Zn	68		ug/L		1153	-0.000
> Ge	74		ug/L		389004	389003.848
As	75	0.195	ug/L	60.501	3224	0.001
Se	77		ug/L		4733	-0.001
Se	82	-0.223	ug/L	223.576	-84	-0.000
Kr	83		ug/L		1193	0.000
Sr	88	0.001	ug/L	350.455	313	0.000
Y	89		ug/L		60	-0.000
Zr	90	0.329	ug/L	15.539	3870	0.009
Mo	98	0.179	ug/L	15.188	729	0.002
Ag	107	0.008	ug/L	7.776	69	0.000
Cd	111	-0.010	ug/L	31.156	58	-0.000
Cd	114		ug/L		133	-0.000
> In	115		ug/L		246890	246889.974
Sn	120	0.083	ug/L	27.915	1118	0.002
Sb	121	1.666	ug/L	15.055	8518	0.030
Sb	123		ug/L		6627	0.023
Ba	135		ug/L		43	0.000
Ba	137	-0.001	ug/L	347.299	67	-0.000
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		304961	304960.685
Tl	205	0.124	ug/L	38.400	2267	0.005
Pb	208	0.008	ug/L	34.886	768	0.000
Th	232	0.387	ug/L	26.045	8129	0.020
U	238	0.035	ug/L	22.141	678	0.002

Sample ID: QC Std 2

Report Date/Time: Monday, April 23, 2007 14:40:40

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		97.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		97.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		99.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.8			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, April 23, 2007 14:42:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 3.081

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	10.764 ug/L	0.913	9901	0.028
|	Be	9	0.474 ug/L	9.507	141	0.000
|	B	11	16.080 ug/L	2.048	4542	0.011
|	Na	23	297.392 ug/L	3.323	486135	1.377
|	Mg	24	19.463 ug/L	19.828	30366	0.086
|	Al	27	18.579 ug/L	23.650	52768	0.145
|	P	31	46.674 ug/L	2.095	12208	0.023
|	K	39	287.180 ug/L	16.950	2140629	3.798
|	Ca	43	99.925 ug/L	5.056	1415	0.003
>	Sc	45	ug/L		350337	350336.620
|	Ti	47	8.511 ug/L	3.341	4131	0.011
|	V	51	11.233 ug/L	5.765	51089	0.147
|	Cr	52	3.176 ug/L	0.414	14977	0.040
|	Cr	53	ug/L		109580	-0.029
|	Mn	55	5.227 ug/L	1.142	40755	0.113
|	Fe	57	24.059 ug/L	6.907	13263	0.010
|	Co	59	1.071 ug/L	1.528	6060	0.017
|	Ni	60	2.068 ug/L	1.896	2536	0.007
|	Cu	63	ug/L		3380	0.009
|	Cu	65	1.050 ug/L	4.010	1505	0.004
|	Zn	66	10.450 ug/L	1.139	10673	0.026
|	Zn	67	ug/L		11164	0.001
|	Zn	68	ug/L		8374	0.018
>	Ge	74	ug/L		397503	397502.989
|	As	75	4.270 ug/L	4.332	7901	0.012
|	Se	77	ug/L		4856	-0.001
|	Se	82	4.738 ug/L	14.282	435	0.001
|	Kr	83	ug/L		1243	0.000
|	Sr	88	10.227 ug/L	0.799	126542	0.507
|	Y	89	ug/L		55	-0.000
|	Zr	90	2.765 ug/L	11.782	20442	0.075
|	Mo	98	0.507 ug/L	2.996	1726	0.006
|	Ag	107	1.058 ug/L	1.820	5524	0.022
|	Cd	111	1.049 ug/L	1.169	1376	0.005
|	Cd	114	ug/L		3367	0.013
>	In	115	ug/L		248845	248845.360
|	Sn	120	5.058 ug/L	0.575	27053	0.106
|	Sb	121	1.868 ug/L	7.241	9482	0.033
|	Sb	123	ug/L		7307	0.026
|	Ba	135	ug/L		2452	0.008
|	Ba	137	2.013 ug/L	0.407	4213	0.013
|	Ho	165	ug/L		15	-0.000
>	Lu	175	ug/L		311595	311595.403
|	Tl	205	1.003 ug/L	0.666	13597	0.041
|	Pb	208	2.102 ug/L	1.331	31332	0.098
|	Th	232	0.969 ug/L	2.743	17807	0.051
	U	238	0.209 ug/L	0.923	3496	0.011

Sample ID: QC Std 3

Report Date/Time: Monday, April 23, 2007 14:45:22

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	107.644				
Be	9	94.754				
B	11	107.201				
Na	23	118.957				
Mg	24	129.751				
Al	27	123.861				
P	31	93.349				
K	39	95.727				
Ca	43	99.925				
> Sc	45			99.8		
Ti	47	85.108				
V	51	112.332				
Cr	52	105.858				
Cr	53					
Mn	55	104.539				
Fe	57	96.235				
Co	59	107.081				
Ni	60	103.379				
Cu	63					
Cu	65	105.020				
Zn	66	104.501				
Zn	67					
Zn	68					
> Ge	74			99.5		
As	75	85.392				
Se	77					
Se	82	94.751				
Kr	83					
Sr	88	102.268				
Y	89					
Zr	90	138.237				
Mo	98	101.338				
Ag	107	105.842				
Cd	111	104.868				
Cd	114					
> In	115			100.0		
Sn	120	101.168				
Sb	121	93.380				
Sb	123					
Ba	135					
Ba	137	100.650				
Ho	165					
> Lu	175			101.9		
Tl	205	100.327				
Pb	208	105.118				
Th	232	96.878				
U	238	104.322				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits	Message
QC Std 3	Zr	90CRDL	is out of limits

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, April 23, 2007 14:47:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 4.082

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.704	ug/L	3.338	648	0.002
Be	9	0.013	ug/L	15.025	12	0.000
B	11	7.042	ug/L	3.541	2224	0.005
Na	23	109976.684	ug/L	13.299	167688115	509.076
Mg	24	111415.190	ug/L	7.734	161835017	491.113
Al	27	96435.657	ug/L	4.476	247480114	751.073
P	31	105134.952	ug/L	0.175	17055272	51.735
K	39	101903.666	ug/L	5.772	445041983	1347.709
Ca	43	98626.577	ug/L	0.996	863121	2.617
> Sc	45		ug/L		329585	329584.697
Ti	47	1817.764	ug/L	0.593	765482	2.322
V	51	0.363	ug/L	106.158	1227	0.005
Cr	52	0.602	ug/L	5.267	3357	0.008
Cr	53		ug/L		91691	-0.063
Mn	55	2.373	ug/L	1.670	18044	0.051
Fe	57	110122.171	ug/L	1.870	15519447	47.057
Co	59	0.234	ug/L	2.087	1346	0.004
Ni	60	1.594	ug/L	2.087	1854	0.005
Cu	63		ug/L		4668	0.013
Cu	65	2.374	ug/L	5.069	3104	0.009
Zn	66	6.177	ug/L	4.231	6140	0.015
Zn	67		ug/L		9235	-0.003
Zn	68		ug/L		3684	0.007
> Ge	74		ug/L		380367	380366.504
As	75	-0.061	ug/L	179.939	2878	-0.000
Se	77		ug/L		6089	0.003
Se	82	0.238	ug/L	365.477	-37	0.000
Kr	83		ug/L		1202	0.000
Sr	88	3.221	ug/L	0.409	38365	0.160
Y	89		ug/L		593	0.002
Zr	90	0.880	ug/L	24.705	7315	0.024
Mo	98	2078.781	ug/L	2.203	6015290	25.249
Ag	107	0.071	ug/L	11.553	378	0.001
Cd	111	0.037	ug/L	5.205	112	0.000
Cd	114		ug/L		5311	0.022
> In	115		ug/L		238254	238254.103
Sn	120	0.422	ug/L	3.234	2771	0.009
Sb	121	0.501	ug/L	13.755	3273	0.009
Sb	123		ug/L		2528	0.007
Ba	135		ug/L		463	0.001
Ba	137	0.351	ug/L	6.118	782	0.002
Ho	165		ug/L		119	0.000
> Lu	175		ug/L		307625	307624.677
Tl	205	-0.001	ug/L	165.681	702	-0.000
Pb	208	0.487	ug/L	0.488	7675	0.023
Th	232	0.106	ug/L	36.277	3675	0.006
U	238	0.002	ug/L	71.782	149	0.000

Sample ID: QC Std 4

Report Date/Time: Monday, April 23, 2007 14:50:05

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11	140.832				
Na	23	109.977				
Mg	24	111.437				
Al	27	96.436				
P	31	105.145				
K	39	101.904				
Ca	43	98.627				
> Sc	45		93.9			
Ti	47	90.888				
V	51					
Cr	52	27.367				
Cr	53					
Mn	55	112.983				
Fe	57	110.122				
Co	59	117.138				
Ni	60	88.530				
Cu	63					
Cu	65	94.948				
Zn	66	102.942				
Zn	67					
Zn	68					
> Ge	74		95.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88	107.379				
Y	89					
Zr	90					
Mo	98	103.939				
Ag	107					
Cd	111	37.068				
Cd	114					
> In	115		95.7			
Sn	120					
Sb	121	100.275				
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.6			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, April 23, 2007 14:52:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 5.083

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	22.636	ug/L	1.110	19506	0.059
Be	9	20.613	ug/L	2.095	5418	0.016
B	11	26.903	ug/L	2.254	6715	0.019
Na	23	112415.048	ug/L	1.759	171213551	520.363
Mg	24	112743.950	ug/L	1.131	163499987	496.970
Al	27	96379.118	ug/L	1.051	246950178	750.633
P	31	104426.600	ug/L	0.803	16910670	51.387
K	39	102407.365	ug/L	1.909	446313531	1354.370
Ca	43	96587.483	ug/L	0.749	843784	2.563
Sc	45		ug/L		329002	329002.058
Ti	47	1803.872	ug/L	1.193	758332	2.304
V	51	22.037	ug/L	1.127	94489	0.288
Cr	52	21.431	ug/L	0.469	90060	0.271
Cr	53		ug/L		100871	-0.035
Mn	55	23.237	ug/L	1.723	166116	0.501
Fe	57	109743.950	ug/L	1.436	15436811	46.895
Co	59	21.124	ug/L	1.840	109925	0.334
Ni	60	21.673	ug/L	1.205	24353	0.074
Cu	63		ug/L		58033	0.175
Cu	65	22.418	ug/L	1.073	28633	0.087
Zn	66	24.953	ug/L	1.481	24215	0.062
Zn	67		ug/L		11930	0.004
Zn	68		ug/L		16979	0.041
Ge	74		ug/L		383344	383344.040
As	75	20.386	ug/L	3.074	25181	0.058
Se	77		ug/L		7646	0.007
Se	82	19.294	ug/L	5.451	1895	0.005
Kr	83		ug/L		1190	0.000
Sr	88	24.463	ug/L	1.583	286958	1.213
Y	89		ug/L		588	0.002
Zr	90	20.680	ug/L	1.999	134989	0.565
Mo	98	2094.651	ug/L	1.260	6010963	25.441
Ag	107	20.320	ug/L	1.129	100205	0.424
Cd	111	20.311	ug/L	0.866	24059	0.102
Cd	114		ug/L		64110	0.271
In	115		ug/L		236262	236261.697
Sn	120	20.616	ug/L	0.653	102651	0.432
Sb	121	23.238	ug/L	1.225	99001	0.414
Sb	123		ug/L		76232	0.319
Ba	135		ug/L		23733	0.077
Ba	137	20.365	ug/L	2.034	41617	0.135
Ho	165		ug/L		119	0.000
Lu	175		ug/L		308885	308885.259
Tl	205	18.704	ug/L	1.176	238551	0.770
Pb	208	20.662	ug/L	1.914	299322	0.967
Th	232	21.121	ug/L	1.532	343549	1.106
U	238	21.322	ug/L	2.427	341529	1.106

Sample ID: QC Std 5

Report Date/Time: Monday, April 23, 2007 14:54:48

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	113.182				
Be	9	103.064				
B	11	107.614				
Na	23	112.415				
Mg	24	112.767				
Al	27	96.379				
P	31	104.437				
K	39	102.407				
Ca	43	96.587				
> Sc	45		93.7			
Ti	47	90.194				
V	51	110.183				
Cr	52	96.536				
Cr	53					
Mn	55	105.144				
Fe	57	109.744				
Co	59	104.575				
Ni	60	99.420				
Cu	63					
Cu	65	99.637				
Zn	66	95.974				
Zn	67					
Zn	68					
> Ge	74		96.0			
As	75	101.932				
Se	77					
Se	82	96.472				
Kr	83					
Sr	88	106.359				
Y	89					
Zr	90	103.400				
Mo	98	104.733				
Ag	107	101.601				
Cd	111	101.048				
Cd	114					
> In	115		94.9			
Sn	120	103.079				
Sb	121	113.357				
Sb	123					
Ba	135					
Ba	137	101.825				
Ho	165					
> Lu	175		101.1			
Tl	205	93.521				
Pb	208	103.311				
Th	232	105.605				
U	238	106.612				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 23, 2007 14:56:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 6.084

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	53.035	ug/L	1.147	47866	0.139
Be	9	51.699	ug/L	1.196	14237	0.041
B	11	103.251	ug/L	0.444	25162	0.071
Na	23	5793.342	ug/L	11.596	9256664	26.817
Mg	24	5921.924	ug/L	11.737	9009045	26.104
Al	27	5163.496	ug/L	2.897	13877699	40.215
P	31	5107.317	ug/L	2.041	871238	2.513
K	39	5201.680	ug/L	5.104	24534075	68.794
Ca	43	5085.401	ug/L	2.385	47044	0.135
> Sc	45		ug/L		345013	345012.927
Ti	47	50.069	ug/L	0.350	22380	0.064
V	51	50.913	ug/L	0.302	229393	0.666
Cr	52	50.939	ug/L	1.774	223269	0.645
Cr	53		ug/L		122584	0.014
Mn	55	51.018	ug/L	1.003	380982	1.101
Fe	57	5151.750	ug/L	0.800	769049	2.201
Co	59	50.961	ug/L	1.353	277942	0.805
Ni	60	49.865	ug/L	2.107	58667	0.170
Cu	63		ug/L		143124	0.414
Cu	65	50.920	ug/L	1.351	68099	0.197
Zn	66	50.165	ug/L	1.238	49956	0.126
Zn	67		ug/L		16506	0.015
Zn	68		ug/L		37163	0.091
> Ge	74		ug/L		395567	395567.180
As	75	49.695	ug/L	1.618	58931	0.141
Se	77		ug/L		8076	0.007
Se	82	50.750	ug/L	3.043	5246	0.013
Kr	83		ug/L		1163	0.000
Sr	88	50.978	ug/L	0.081	620753	2.529
Y	89		ug/L		86	0.000
Zr	90	50.142	ug/L	1.132	337599	1.369
Mo	98	52.676	ug/L	1.807	157172	0.640
Ag	107	50.956	ug/L	1.064	260922	1.063
Cd	111	50.751	ug/L	1.437	62328	0.254
Cd	114		ug/L		154435	0.629
> In	115		ug/L		245380	245380.360
Sn	120	50.965	ug/L	1.730	262562	1.067
Sb	121	48.896	ug/L	4.232	215091	0.872
Sb	123		ug/L		165898	0.672
Ba	135		ug/L		59873	0.188
Ba	137	49.415	ug/L	1.300	103759	0.326
Ho	165		ug/L		17	-0.000
> Lu	175		ug/L		317596	317595.574
Tl	205	51.393	ug/L	1.075	672565	2.115
Pb	208	51.100	ug/L	0.611	760271	2.392
Th	232	51.242	ug/L	0.692	854297	2.683
U	238	51.582	ug/L	1.226	849541	2.675

Sample ID: QC Std 6

Report Date/Time: Monday, April 23, 2007 14:59:32

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	106.071				
Be	9	103.398				
B	11	103.251				
Na	23	115.867				
Mg	24	118.438				
Al	27	102.247				
P	31	102.146				
K	39	104.034				
Ca	43	101.708				
> Sc	45		98.3			
Ti	47	100.138				
V	51	101.825				
Cr	52	101.879				
Cr	53					
Mn	55	102.037				
Fe	57	103.035				
Co	59	101.922				
Ni	60	99.730				
Cu	63					
Cu	65	101.841				
Zn	66	100.329				
Zn	67					
Zn	68					
> Ge	74		99.1			
As	75	99.390				
Se	77					
Se	82	101.500				
Kr	83					
Sr	88	101.955				
Y	89					
Zr	90	100.284				
Mo	98	105.353				
Ag	107	101.912				
Cd	111	101.501				
Cd	114					
> In	115		98.6			
Sn	120	101.930				
Sb	121	97.792				
Sb	123					
Ba	135					
Ba	137	98.831				
Ho	165					
> Lu	175		103.9			
Tl	205	102.785				
Pb	208	102.201				
Th	232	102.484				
U	238	103.165				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Na	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 23, 2007 15:01:33

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 7.085

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.022	ug/L	55.747	61	0.000
Be	9	0.031	ug/L	7.289	16	0.000
B	11	2.304	ug/L	39.671	1158	0.002
Na	23	1.436	ug/L	161.845	6002	0.007
Mg	24	0.483	ug/L	250.443	1000	0.002
Al	27	1.205	ug/L	86.512	5001	0.009
P	31	1.106	ug/L	72.454	4132	0.001
K	39	-13.433	ug/L	71.456	709241	-0.178
Ca	43	3.983	ug/L	26.952	497	0.000
> Sc	45		ug/L		332710	332709.538
Ti	47	0.040	ug/L	128.630	323	0.000
V	51	0.181	ug/L	254.272	433	0.002
Cr	52	0.101	ug/L	38.696	1282	0.001
Cr	53		ug/L		103237	-0.031
Mn	55	-0.014	ug/L	74.561	1086	-0.000
Fe	57	0.931	ug/L	262.188	9306	0.000
Co	59	0.011	ug/L	28.734	184	0.000
Ni	60	-0.007	ug/L	55.871	58	-0.000
Cu	63		ug/L		161	-0.001
Cu	65	0.006	ug/L	137.178	85	0.000
Zn	66	-0.043	ug/L	46.976	219	-0.000
Zn	67		ug/L		9063	-0.003
Zn	68		ug/L		1021	-0.000
> Ge	74		ug/L		381780	381780.373
As	75	0.102	ug/L	406.680	3065	0.000
Se	77		ug/L		4395	-0.002
Se	82	0.029	ug/L	1391.093	-58	0.000
Kr	83		ug/L		1112	0.000
Sr	88	0.000	ug/L	966.933	300	0.000
Y	89		ug/L		57	-0.000
Zr	90	-0.002	ug/L	1413.882	1602	-0.000
Mo	98	0.716	ug/L	4.596	2285	0.009
Ag	107	0.008	ug/L	16.059	66	0.000
Cd	111	-0.019	ug/L	67.510	46	-0.000
Cd	114		ug/L		134	0.000
> In	115		ug/L		241142	241141.703
Sn	120	0.029	ug/L	12.264	822	0.001
Sb	121	1.146	ug/L	19.010	6080	0.020
Sb	123		ug/L		4667	0.016
Ba	135		ug/L		46	0.000
Ba	137	-0.002	ug/L	105.673	63	-0.000
Ho	165		ug/L		14	-0.000
> Lu	175		ug/L		304678	304678.460
Tl	205	0.140	ug/L	28.291	2461	0.006
Pb	208	0.003	ug/L	87.901	703	0.000
Th	232	0.145	ug/L	33.707	4260	0.008
U	238	0.027	ug/L	24.845	541	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 23, 2007 15:04:18

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		94.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		95.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		96.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.7			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 7	Mo	98CCB is out of limts (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Monday, April 23, 2007 15:06:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 10.086

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	1063.163	ug/L	0.815	960664	2.779
Be	9	1062.977	ug/L	1.231	293150	0.848
B	11	0.269	ug/L	36.746	722	0.000
Na	23	65622.355	ug/L	7.129	104996672	303.762
Mg	24	56403.704	ug/L	12.208	85912417	248.625
Al	27	51705.965	ug/L	6.428	139196524	402.704
P	31	27694.337	ug/L	0.501	4715707	13.628
K	39	54637.145	ug/L	6.286	250676709	722.594
Ca	43	51779.675	ug/L	0.766	475548	1.374
> Sc	45		ug/L		345726	345725.931
Ti	47	33.154	ug/L	1.392	14957	0.042
V	51	1056.162	ug/L	1.641	4775637	13.814
Cr	52	1065.265	ug/L	0.958	4661161	13.479
Cr	53		ug/L		654722	1.552
Mn	55	1061.090	ug/L	0.943	7915890	22.892
Fe	57	56515.529	ug/L	1.777	8359012	24.150
Co	59	1048.631	ug/L	0.543	5728278	16.568
Ni	60	1000.796	ug/L	0.534	1178524	3.409
Cu	63		ug/L		2928299	8.469
Cu	65	979.811	ug/L	0.688	1311541	3.793
Zn	66	2639.153	ug/L	2.472	2586120	6.609
Zn	67		ug/L		387972	0.965
Zn	68		ug/L		1712510	4.374
> Ge	74		ug/L		391279	391279.018
As	75	951.346	ug/L	1.742	1061113	2.704
Se	77		ug/L		44188	0.100
Se	82	511.832	ug/L	1.264	52914	0.135
Kr	83		ug/L		1206	0.000
Sr	88	1116.952	ug/L	1.334	13431235	55.401
Y	89		ug/L		1133	0.004
Zr	90	533.618	ug/L	1.110	3533977	14.570
Mo	98	1091.868	ug/L	2.062	3215143	13.262
Ag	107	249.705	ug/L	1.373	1263196	5.210
Cd	111	1026.067	ug/L	0.803	1243765	5.130
Cd	114		ug/L		3165837	13.059
> In	115		ug/L		242447	242446.753
Sn	120	1057.142	ug/L	1.600	5367060	22.136
Sb	121	255.008	ug/L	3.760	1103001	4.546
Sb	123		ug/L		843988	3.478
Ba	135		ug/L		3172411	9.895
Ba	137	2565.205	ug/L	0.765	5433266	16.947
Ho	165		ug/L		68	0.000
> Lu	175		ug/L		320608	320607.928
Tl	205	509.391	ug/L	1.600	6723009	20.968
Pb	208	5255.758	ug/L	1.359	78866445	245.997
Th	232	2778.513	ug/L	1.808	46649020	145.502
U	238	5619.061	ug/L	1.844	93410393	291.369

Sample ID: QC Std 10

Report Date/Time: Monday, April 23, 2007 15:09:03

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	106.316				
Be	9	106.298				
B	11					
Na	23	131.245				
Mg	24	112.807				
Al	27	103.412				
P	31	110.777				
K	39	109.274				
Ca	43	103.559				
> Sc	45		98.5			
Ti	47					
V	51	105.616				
Cr	52	106.527				
Cr	53					
Mn	55	106.109				
Fe	57	113.031				
Co	59	104.863				
Ni	60	100.080				
Cu	63					
Cu	65	97.981				
Zn	66	105.566				
Zn	67					
Zn	68					
> Ge	74		98.0			
As	75	95.135				
Se	77					
Se	82	102.366				
Kr	83					
Sr	88	111.695				
Y	89					
Zr	90	106.724				
Mo	98	109.187				
Ag	107	99.882				
Cd	111	102.607				
Cd	114					
> In	115		97.4			
Sn	120	105.714				
Sb	121	102.003				
Sb	123					
Ba	135					
Ba	137	102.608				
Ho	165					
> Lu	175		104.9			
Tl	205	101.878				
Pb	208	105.115				
Th	232	111.141				
U	238	112.381				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 10	Na	23LRS is out of limits (+/- 10%)
QC Std 10	Mg	24LRS is out of limits (+/- 10%)
QC Std 10	P	31LRS is out of limits (+/- 10%)
QC Std 10	Fe	57LRS is out of limits (+/- 10%)
QC Std 10	Sr	88LRS is out of limits (+/- 10%)
QC Std 10	Th	232LRS is out of limits (+/- 10%)
QC Std 10	U	238LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Monday, April 23, 2007 15:11:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 11.087

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.946	ug/L	1.986	47852	0.136
Be	9	52.456	ug/L	2.796	14740	0.042
B	11	102.013	ug/L	3.351	25376	0.070
Na	23	5971.950	ug/L	9.621	9733268	27.644
Mg	24	6417.923	ug/L	6.143	9958598	28.290
Al	27	4986.348	ug/L	5.812	13678973	38.835
P	31	5153.160	ug/L	1.495	896988	2.536
K	39	4815.001	ug/L	9.612	23231305	63.680
Ca	43	5108.203	ug/L	1.808	48218	0.136
> Sc	45		ug/L		352104	352103.988
Ti	47	49.674	ug/L	0.834	22662	0.063
V	51	51.293	ug/L	2.038	235840	0.671
Cr	52	51.061	ug/L	0.810	228393	0.646
Cr	53		ug/L		125785	0.016
Mn	55	51.043	ug/L	2.472	388960	1.101
Fe	57	5115.392	ug/L	2.228	779293	2.186
Co	59	51.004	ug/L	1.979	283859	0.806
Ni	60	50.224	ug/L	1.717	60298	0.171
Cu	63		ug/L		145673	0.413
Cu	65	50.947	ug/L	1.360	69528	0.197
Zn	66	50.488	ug/L	1.564	50545	0.126
Zn	67		ug/L		17094	0.016
Zn	68		ug/L		37853	0.092
> Ge	74		ug/L		397667	397667.100
As	75	51.138	ug/L	0.414	60884	0.145
Se	77		ug/L		8071	0.007
Se	82	50.759	ug/L	3.652	5275	0.013
Kr	83		ug/L		1128	-0.000
Sr	88	51.135	ug/L	0.322	631156	2.536
Y	89		ug/L		89	0.000
Zr	90	51.509	ug/L	1.261	351470	1.406
Mo	98	51.137	ug/L	0.853	154676	0.621
Ag	107	50.228	ug/L	0.901	260714	1.048
Cd	111	50.547	ug/L	0.707	62930	0.253
Cd	114		ug/L		154278	0.620
> In	115		ug/L		248727	248726.780
Sn	120	51.519	ug/L	1.399	269032	1.079
Sb	121	53.975	ug/L	2.546	240525	0.962
Sb	123		ug/L		185280	0.741
Ba	135		ug/L		59498	0.188
Ba	137	49.714	ug/L	0.868	103860	0.328
Ho	165		ug/L		22	0.000
> Lu	175		ug/L		316003	316003.432
Tl	205	51.341	ug/L	0.075	668566	2.113
Pb	208	50.965	ug/L	0.948	754449	2.385
Th	232	53.371	ug/L	1.553	885145	2.795
U	238	52.180	ug/L	0.468	855127	2.706

Sample ID: QC Std 11

Report Date/Time: Monday, April 23, 2007 15:13:48

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	103.892				
Be	9	104.912				
B	11	102.013				
Na	23	119.439				
Mg	24	128.358				
Al	27	98.740				
P	31	103.063				
K	39	96.300				
Ca	43	102.164				
> Sc	45		100.3			
Ti	47	99.347				
V	51	102.587				
Cr	52	102.122				
Cr	53					
Mn	55	102.087				
Fe	57	102.308				
Co	59	102.008				
Ni	60	100.447				
Cu	63					
Cu	65	101.893				
Zn	66	100.975				
Zn	67					
Zn	68					
> Ge	74		99.6			
As	75	102.277				
Se	77					
Se	82	101.518				
Kr	83					
Sr	88	102.271				
Y	89					
Zr	90	103.017				
Mo	98	102.274				
Ag	107	100.456				
Cd	111	101.093				
Cd	114					
> In	115		99.9			
Sn	120	103.039				
Sb	121	107.951				
Sb	123					
Ba	135					
Ba	137	99.429				
Ho	165					
> Lu	175		103.4			
Tl	205	102.682				
Pb	208	101.929				
Th	232	106.742				
U	238	104.360				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 11	Na	23CCV is out of limits (+/- 10%)
QC Std 11	Mg	24CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Monday, April 23, 2007 15:15:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 12.088

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.091 ug/L	13.262	123	0.000
Be	9	0.020 ug/L	18.241	14	0.000
B	11	2.154 ug/L	42.281	1139	0.001
Na	23	0.762 ug/L	311.284	5001	0.004
Mg	24	0.683 ug/L	113.973	1333	0.003
Al	27	1.168 ug/L	54.698	5001	0.009
P	31	1.161 ug/L	78.704	4195	0.001
K	39	-2.889 ug/L	580.224	764711	-0.038
Ca	43	0.648 ug/L	660.361	473	0.000
> Sc	45	ug/L		337013	337012.508
Ti	47	-0.188 ug/L	9.787	229	-0.000
V	51	0.588 ug/L	149.843	2261	0.008
Cr	52	0.096 ug/L	44.563	1276	0.001
Cr	53	ug/L		104968	-0.030
Mn	55	0.044 ug/L	21.476	1517	0.001
Fe	57	-0.850 ug/L	130.724	9172	-0.000
Co	59	0.092 ug/L	11.277	617	0.001
Ni	60	0.045 ug/L	12.196	119	0.000
Cu	63	ug/L		243	-0.000
Cu	65	0.037 ug/L	13.989	126	0.000
Zn	66	-0.020 ug/L	86.639	241	-0.000
Zn	67	ug/L		9538	-0.002
Zn	68	ug/L		1095	-0.000
> Ge	74	ug/L		382435	382435.432
As	75	0.713 ug/L	58.344	3734	0.002
Se	77	ug/L		4350	-0.002
Se	82	0.535 ug/L	27.184	-7	0.000
Kr	83	ug/L		1124	0.000
Sr	88	0.007 ug/L	11.375	377	0.000
Y	89	ug/L		57	-0.000
Zr	90	0.081 ug/L	30.810	2145	0.002
Mo	98	0.551 ug/L	7.791	1799	0.007
Ag	107	0.012 ug/L	6.031	90	0.000
Cd	111	-0.010 ug/L	45.423	57	-0.000
Cd	114	ug/L		169	0.000
> In	115	ug/L		240712	240711.519
Sn	120	0.308 ug/L	8.113	2224	0.006
Sb	121	3.048 ug/L	13.144	14217	0.054
Sb	123	ug/L		11003	0.042
Ba	135	ug/L		94	0.000
Ba	137	0.054 ug/L	8.958	175	0.000
Ho	165	ug/L		13	-0.000
> Lu	175	ug/L		302536	302536.361
Tl	205	0.195 ug/L	22.929	3139	0.008
Pb	208	0.037 ug/L	7.743	1186	0.002
Th	232	0.555 ug/L	14.749	10726	0.029
U	238	0.210 ug/L	10.630	3421	0.011

Sample ID: QC Std 12

Report Date/Time: Monday, April 23, 2007 15:18:34

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		96.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		95.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		96.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.0			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 12	Mo	98	98CCB is out of limits (+/- PQL)
QC Std 12	Sb	121	121CCB is out of limits (+/- PQL)
QC Std 12	U	238	238CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 23, 2007 15:58:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 6.097

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	48.215	ug/L	1.169	47963	0.126
Be	9	48.425	ug/L	1.472	14697	0.039
B	11	104.953	ug/L	2.407	28177	0.072
Na	23	6184.629	ug/L	7.724	10890052	28.628
Mg	24	6083.409	ug/L	8.099	10197937	26.815
Al	27	4837.454	ug/L	4.728	14324833	37.676
P	31	5093.723	ug/L	0.496	957656	2.507
K	39	5327.641	ug/L	9.901	27659019	70.460
Ca	43	5071.437	ug/L	0.521	51704	0.135
> Sc	45		ug/L		380252	380251.888
Ti	47	49.667	ug/L	0.683	24470	0.063
V	51	49.732	ug/L	1.867	246942	0.650
Cr	52	49.839	ug/L	0.848	240785	0.631
Cr	53		ug/L		161226	0.083
Mn	55	50.272	ug/L	0.838	413749	1.085
Fe	57	5012.455	ug/L	1.169	824895	2.142
Co	59	50.018	ug/L	0.897	300658	0.790
Ni	60	49.258	ug/L	0.240	63871	0.168
Cu	63		ug/L		152057	0.399
Cu	65	49.529	ug/L	1.219	73002	0.192
Zn	66	51.157	ug/L	1.436	53272	0.128
Zn	67		ug/L		20405	0.023
Zn	68		ug/L		39707	0.093
> Ge	74		ug/L		413646	413645.578
As	75	49.730	ug/L	1.704	61674	0.141
Se	77		ug/L		9839	0.010
Se	82	49.349	ug/L	1.628	5334	0.013
Kr	83		ug/L		1249	0.000
Sr	88	51.260	ug/L	1.079	654699	2.543
Y	89		ug/L		90	0.000
Zr	90	49.347	ug/L	1.001	348568	1.347
Mo	98	49.803	ug/L	0.791	155895	0.605
Ag	107	50.319	ug/L	1.503	270255	1.050
Cd	111	50.453	ug/L	0.753	65001	0.252
Cd	114		ug/L		158828	0.617
> In	115		ug/L		257396	257395.627
Sn	120	49.806	ug/L	1.465	269135	1.043
Sb	121	47.610	ug/L	5.158	219759	0.849
Sb	123		ug/L		167906	0.648
Ba	135		ug/L		61799	0.192
Ba	137	50.293	ug/L	1.635	106792	0.332
Ho	165		ug/L		13	-0.000
> Lu	175		ug/L		321215	321215.025
Tl	205	50.821	ug/L	1.350	672713	2.092
Pb	208	50.609	ug/L	1.334	761545	2.369
Th	232	50.681	ug/L	1.043	854525	2.654
U	238	50.848	ug/L	0.817	847046	2.637

Sample ID: QC Std 6

Report Date/Time: Monday, April 23, 2007 16:01:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	96.431				
Be	9	96.850				
B	11	104.953				
Na	23	123.693				
Mg	24	121.668				
Al	27	95.791				
P	31	101.874				
K	39	106.553				
Ca	43	101.429				
> Sc	45		108.4			
Ti	47	99.333				
V	51	99.463				
Cr	52	99.679				
Cr	53					
Mn	55	100.545				
Fe	57	100.249				
Co	59	100.035				
Ni	60	98.516				
Cu	63					
Cu	65	99.058				
Zn	66	102.314				
Zn	67					
Zn	68					
> Ge	74		103.6			
As	75	99.460				
Se	77					
Se	82	98.698				
Kr	83					
Sr	88	102.519				
Y	89					
Zr	90	98.695				
Mo	98	99.605				
Ag	107	100.638				
Cd	111	100.906				
Cd	114					
> In	115		103.4			
Sn	120	99.613				
Sb	121	95.221				
Sb	123					
Ba	135					
Ba	137	100.587				
Ho	165					
> Lu	175		105.1			
Tl	205	101.643				
Pb	208	101.218				
Th	232	101.361				
U	238	101.696				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Na	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 23, 2007 16:03:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 7.098

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.041	ug/L	21.183	84	0.000
Be	9	0.013	ug/L	46.710	13	0.000
B	11	4.811	ug/L	25.955	1871	0.003
Na	23	2.142	ug/L	71.000	7669	0.010
Mg	24	1.465	ug/L	66.218	2667	0.006
Al	27	0.576	ug/L	33.735	3667	0.004
P	31	-0.918	ug/L	105.675	4109	-0.000
K	39	-13.478	ug/L	88.961	765711	-0.178
Ca	43	2.159	ug/L	343.411	519	0.000
> Sc	45		ug/L		359656	359656.385
Ti	47	-0.287	ug/L	17.870	199	-0.000
V	51	-0.054	ug/L	1463.370	-658	-0.001
Cr	52	0.037	ug/L	121.950	1091	0.000
Cr	53		ug/L		120063	-0.007
Mn	55	0.004	ug/L	98.673	1310	0.000
Fe	57	-3.749	ug/L	37.258	9342	-0.002
Co	59	0.011	ug/L	5.116	200	0.000
Ni	60	0.003	ug/L	244.361	75	0.000
Cu	63		ug/L		207	-0.001
Cu	65	0.005	ug/L	102.973	90	0.000
Zn	66	-0.013	ug/L	241.465	255	-0.000
Zn	67		ug/L		10988	0.001
Zn	68		ug/L		1213	-0.000
> Ge	74		ug/L		395415	395415.365
As	75	-0.137	ug/L	62.201	2905	-0.000
Se	77		ug/L		5320	0.000
Se	82	-0.541	ug/L	181.241	-119	-0.000
Kr	83		ug/L		1204	0.000
Sr	88	0.021	ug/L	16.187	560	0.001
Y	89		ug/L		55	-0.000
Zr	90	-0.004	ug/L	606.273	1605	-0.000
Mo	98	0.145	ug/L	21.144	618	0.002
Ag	107	0.005	ug/L	39.699	55	0.000
Cd	111	-0.014	ug/L	60.348	52	-0.000
Cd	114		ug/L		139	0.000
> In	115		ug/L		243855	243854.639
Sn	120	0.079	ug/L	18.799	1086	0.002
Sb	121	1.103	ug/L	22.363	5955	0.020
Sb	123		ug/L		4603	0.015
Ba	135		ug/L		51	0.000
Ba	137	0.007	ug/L	101.579	81	0.000
Ho	165		ug/L		18	-0.000
> Lu	175		ug/L		303436	303435.938
Tl	205	0.134	ug/L	26.923	2380	0.006
Pb	208	0.002	ug/L	151.312	679	0.000
Th	232	0.304	ug/L	26.575	6760	0.016
U	238	0.031	ug/L	25.895	612	0.002

Sample ID: QC Std 7

Report Date/Time: Monday, April 23, 2007 16:06:29

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		102.5			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		98.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.3			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 23, 2007 16:44:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 6.106

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.222	ug/L	1.287	48676	0.134
Be	9	50.189	ug/L	2.167	14551	0.040
B	11	99.773	ug/L	2.124	25623	0.069
Na	23	5998.656	ug/L	5.719	10090123	27.767
Mg	24	5765.732	ug/L	13.623	9230174	25.415
Al	27	4564.415	ug/L	14.766	12908910	35.549
P	31	5107.636	ug/L	1.585	917292	2.513
K	39	5224.570	ug/L	13.087	25933346	69.097
Ca	43	5083.684	ug/L	0.717	49514	0.135
> Sc	45		ug/L		363266	363266.390
Ti	47	48.907	ug/L	2.375	23023	0.062
V	51	50.996	ug/L	1.210	241923	0.667
Cr	52	50.715	ug/L	1.139	234044	0.642
Cr	53		ug/L		119040	-0.014
Mn	55	50.844	ug/L	2.000	399736	1.097
Fe	57	5120.355	ug/L	2.165	804793	2.188
Co	59	50.982	ug/L	1.251	292751	0.806
Ni	60	50.082	ug/L	2.199	62033	0.171
Cu	63		ug/L		149515	0.411
Cu	65	50.656	ug/L	2.052	71323	0.196
Zn	66	49.958	ug/L	0.494	51583	0.125
Zn	67		ug/L		15917	0.012
Zn	68		ug/L		38357	0.090
> Ge	74		ug/L		410074	410074.177
As	75	49.538	ug/L	0.227	60919	0.141
Se	77		ug/L		8094	0.006
Se	82	49.581	ug/L	3.010	5313	0.013
Kr	83		ug/L		1179	0.000
Sr	88	50.966	ug/L	0.166	641887	2.528
Y	89		ug/L		119	0.000
Zr	90	49.204	ug/L	2.667	342678	1.344
Mo	98	49.596	ug/L	1.023	153069	0.602
Ag	107	50.095	ug/L	0.252	265324	1.045
Cd	111	49.921	ug/L	1.573	63410	0.250
Cd	114		ug/L		155761	0.613
> In	115		ug/L		253794	253793.676
Sn	120	49.692	ug/L	1.106	264796	1.041
Sb	121	49.535	ug/L	5.143	225368	0.883
Sb	123		ug/L		173325	0.679
Ba	135		ug/L		60650	0.190
Ba	137	49.621	ug/L	1.468	104672	0.328
Ho	165		ug/L		17	-0.000
> Lu	175		ug/L		319106	319105.666
Tl	205	50.251	ug/L	1.804	660722	2.068
Pb	208	49.941	ug/L	1.800	746458	2.337
Th	232	49.979	ug/L	1.322	837144	2.617
U	238	50.117	ug/L	1.278	829307	2.599

Sample ID: QC Std 6

Report Date/Time: Monday, April 23, 2007 16:46:53

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	102.444				
Be	9	100.378				
B	11	99.773				
Na	23	119.973				
Mg	24	115.315				
Al	27	90.384				
P	31	102.153				
K	39	104.491				
Ca	43	101.674				
> Sc	45		103.5			
Ti	47	97.815				
V	51	101.993				
Cr	52	101.429				
Cr	53					
Mn	55	101.689				
Fe	57	102.407				
Co	59	101.964				
Ni	60	100.164				
Cu	63					
Cu	65	101.313				
Zn	66	99.917				
Zn	67					
Zn	68					
> Ge	74		102.7			
As	75	99.075				
Se	77					
Se	82	99.162				
Kr	83					
Sr	88	101.932				
Y	89					
Zr	90	98.407				
Mo	98	99.191				
Ag	107	100.190				
Cd	111	99.841				
Cd	114					
> In	115		102.0			
Sn	120	99.383				
Sb	121	99.070				
Sb	123					
Ba	135					
Ba	137	99.243				
Ho	165					
> Lu	175		104.4			
Tl	205	100.501				
Pb	208	99.881				
Th	232	99.958				
U	238	100.235				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Na	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 23, 2007 16:48:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 7.107

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.029	ug/L	14.854	70	0.000
Be	9	0.006	ug/L	171.312	10	0.000
B	11	2.318	ug/L	42.526	1212	0.002
Na	23	0.645	ug/L	385.942	5001	0.003
Mg	24	1.087	ug/L	102.783	2000	0.005
Al	27	0.754	ug/L	100.070	4001	0.006
P	31	-0.165	ug/L	530.360	4092	-0.000
K	39	-7.262	ug/L	56.869	767058	-0.096
Ca	43	3.094	ug/L	82.668	509	0.000
> Sc	45		ug/L		346807	346807.491
Ti	47	-0.302	ug/L	18.852	185	-0.000
V	51	0.518	ug/L	123.896	1982	0.007
Cr	52	0.164	ug/L	5.083	1608	0.002
Cr	53		ug/L		100034	-0.053
Mn	55	0.098	ug/L	14.028	1967	0.002
Fe	57	0.017	ug/L	3376.789	9569	0.000
Co	59	0.015	ug/L	8.849	214	0.000
Ni	60	0.014	ug/L	36.820	85	0.000
Cu	63		ug/L		196	-0.001
Cu	65	0.018	ug/L	20.439	105	0.000
Zn	66	-0.057	ug/L	19.601	214	-0.000
Zn	67		ug/L		8371	-0.006
Zn	68		ug/L		987	-0.001
> Ge	74		ug/L		399110	399109.996
As	75	-0.089	ug/L	352.483	2989	-0.000
Se	77		ug/L		4500	-0.002
Se	82	0.575	ug/L	84.309	-4	0.000
Kr	83		ug/L		1115	-0.000
Sr	88	-0.001	ug/L	222.460	298	-0.000
Y	89		ug/L		78	0.000
Zr	90	-0.038	ug/L	56.000	1390	-0.001
Mo	98	0.112	ug/L	18.650	529	0.001
Ag	107	0.007	ug/L	6.692	62	0.000
Cd	111	-0.016	ug/L	11.514	51	-0.000
Cd	114		ug/L		134	-0.000
> In	115		ug/L		245985	245985.249
Sn	120	0.042	ug/L	13.659	902	0.001
Sb	121	0.792	ug/L	22.460	4658	0.014
Sb	123		ug/L		3676	0.011
Ba	135		ug/L		52	0.000
Ba	137	0.018	ug/L	32.074	103	0.000
Ho	165		ug/L		15	-0.000
> Lu	175		ug/L		302459	302458.624
Tl	205	0.075	ug/L	39.482	1644	0.003
Pb	208	0.000	ug/L	434.013	660	0.000
Th	232	0.171	ug/L	33.173	4629	0.009
U	238	0.024	ug/L	28.734	497	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 23, 2007 16:51:39

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		98.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		98.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.0			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 23, 2007 17:32:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 6.116

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	41.963 ug/L	1.691	43132	0.110
Be	9	47.332 ug/L	1.807	14842	0.038
B	11	103.743 ug/L	4.392	28787	0.071
Na	23	6544.466 ug/L	9.845	11905530	30.294
Mg	24	6468.332 ug/L	6.160	11204723	28.512
Al	27	5312.591 ug/L	4.113	16254131	41.376
P	31	5501.576 ug/L	0.361	1068244	2.707
K	39	4805.721 ug/L	8.464	25865227	63.557
Ca	43	5226.231 ug/L	0.505	55034	0.139
> Sc	45	ug/L		392863	392862.750
Ti	47	50.752 ug/L	1.823	25826	0.065
V	51	52.470 ug/L	1.812	269188	0.686
Cr	52	51.227 ug/L	0.519	255663	0.648
Cr	53	ug/L		107367	-0.068
Mn	55	51.198 ug/L	1.769	435317	1.105
Fe	57	5028.643 ug/L	2.016	854940	2.149
Co	59	50.637 ug/L	1.550	314452	0.800
Ni	60	50.496 ug/L	2.345	67639	0.172
Cu	63	ug/L		157394	0.400
Cu	65	48.983 ug/L	0.869	74593	0.190
Zn	66	53.971 ug/L	1.437	55703	0.135
Zn	67	ug/L		15423	0.011
Zn	68	ug/L		40946	0.097
> Ge	74	ug/L		410110	410109.643
As	75	49.136 ug/L	0.466	60458	0.140
Se	77	ug/L		7502	0.005
Se	82	53.660 ug/L	1.806	5756	0.014
Kr	83	ug/L		1154	-0.000
Sr	88	52.992 ug/L	1.337	657618	2.628
Y	89	ug/L		107	0.000
Zr	90	49.932 ug/L	4.145	342527	1.363
Mo	98	50.406 ug/L	3.099	153268	0.612
Ag	107	52.097 ug/L	1.634	271872	1.087
Cd	111	52.086 ug/L	2.458	65188	0.260
Cd	114	ug/L		159518	0.637
> In	115	ug/L		250108	250108.443
Sn	120	49.693 ug/L	1.844	260895	1.041
Sb	121	51.050 ug/L	7.712	228607	0.910
Sb	123	ug/L		175282	0.698
Ba	135	ug/L		61515	0.195
Ba	137	51.425 ug/L	0.537	107037	0.340
Ho	165	ug/L		19	0.000
> Lu	175	ug/L		314857	314857.102
Tl	205	50.891 ug/L	0.880	660296	2.095
Pb	208	53.166 ug/L	0.901	784161	2.488
Th	232	51.555 ug/L	1.033	852033	2.700
U	238	52.894 ug/L	0.443	863691	2.743

Sample ID: QC Std 6

Report Date/Time: Monday, April 23, 2007 17:35:04

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	83.925				
Be	9	94.663				
B	11	103.743				
Na	23	130.889				
Mg	24	129.367				
Al	27	105.200				
P	31	110.032				
K	39	96.114				
Ca	43	104.525				
> Sc	45		111.9			
Ti	47	101.504				
V	51	104.940				
Cr	52	102.454				
Cr	53					
Mn	55	102.397				
Fe	57	100.573				
Co	59	101.275				
Ni	60	100.993				
Cu	63					
Cu	65	97.967				
Zn	66	107.943				
Zn	67					
Zn	68					
> Ge	74		102.7			
As	75	98.272				
Se	77					
Se	82	107.320				
Kr	83					
Sr	88	105.984				
Y	89					
Zr	90	99.864				
Mo	98	100.812				
Ag	107	104.195				
Cd	111	104.171				
Cd	114					
> In	115		100.5			
Sn	120	99.386				
Sb	121	102.100				
Sb	123					
Ba	135					
Ba	137	102.851				
Ho	165					
> Lu	175		103.0			
Tl	205	101.783				
Pb	208	106.332				
Th	232	103.110				
U	238	105.789				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Li	7CCV is out of limits (+/- 10%)
QC Std 6	Na	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24CCV is out of limits (+/- 10%)
QC Std 6	P	31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 23, 2007 17:37:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 7.117

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.007	ug/L	106.625	54	0.000
Be	9	0.011	ug/L	67.506	12	0.000
B	11	1.837	ug/L	47.096	1171	0.001
Na	23	1.045	ug/L	99.327	6001	0.005
Mg	24	1.011	ug/L	105.038	2000	0.004
Al	27	0.773	ug/L	27.301	4334	0.006
P	31	-1.598	ug/L	16.562	4105	-0.001
K	39	-8.093	ug/L	41.945	814592	-0.107
Ca	43	-23.522	ug/L	17.501	282	-0.001
> Sc	45		ug/L		370045	370044.527
Ti	47	-0.429	ug/L	5.418	137	-0.001
V	51	0.461	ug/L	110.307	1847	0.006
Cr	52	-0.042	ug/L	83.239	754	-0.001
Cr	53		ug/L		85895	-0.109
Mn	55	-0.016	ug/L	54.924	1189	-0.000
Fe	57	-14.376	ug/L	5.318	7934	-0.006
Co	59	0.003	ug/L	24.756	160	0.000
Ni	60	-0.002	ug/L	129.243	71	-0.000
Cu	63		ug/L		134	-0.001
Cu	65	-0.011	ug/L	52.096	70	-0.000
Zn	66	-0.067	ug/L	8.220	199	-0.000
Zn	67		ug/L		7579	-0.007
Zn	68		ug/L		953	-0.001
> Ge	74		ug/L		389159	389158.780
As	75	0.170	ug/L	82.537	3199	0.000
Se	77		ug/L		3404	-0.005
Se	82	1.170	ug/L	7.028	58	0.000
Kr	83		ug/L		1139	0.000
Sr	88	0.069	ug/L	19.075	1096	0.003
Y	89		ug/L		61	0.000
Zr	90	0.326	ug/L	20.392	3677	0.009
Mo	98	0.124	ug/L	35.250	539	0.002
Ag	107	0.009	ug/L	14.565	69	0.000
Cd	111	-0.011	ug/L	71.569	55	-0.000
Cd	114		ug/L		103	-0.000
> In	115		ug/L		235779	235779.127
Sn	120	0.083	ug/L	26.353	1067	0.002
Sb	121	0.807	ug/L	30.283	4516	0.014
Sb	123		ug/L		3480	0.011
Ba	135		ug/L		47	0.000
Ba	137	-0.001	ug/L	265.417	63	-0.000
Ho	165		ug/L		12	-0.000
> Lu	175		ug/L		295579	295578.587
Tl	205	0.089	ug/L	47.916	1769	0.004
Pb	208	-0.002	ug/L	45.152	608	-0.000
Th	232	0.371	ug/L	31.053	7616	0.019
U	238	0.026	ug/L	35.783	520	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 23, 2007 17:39:50

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		105.4			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		97.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		96.7			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201318102

Sample Date/Time: Monday, April 23, 2007 17:41:51

Sample Type:

Sample Description: HLA1 6020 MB

Number of Replicates: 3

Batch ID: 626700|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\1201318102.118

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.053	ug/L	11.417	99	0.000
Be	9	0.015	ug/L	158.021	14	0.000
B	11	0.223	ug/L	86.883	767	0.000
Na	23	4.101	ug/L	28.753	11338	0.019
Mg	24	0.601	ug/L	155.954	1333	0.003
Al	27	2.134	ug/L	64.417	8336	0.017
P	31	-2.795	ug/L	6.927	3918	-0.001
K	39	3.049	ug/L	307.102	875748	0.040
Ca	43	2.710	ug/L	93.987	544	0.000
> Sc	45		ug/L		372973	372973.358
Ti	47	-0.192	ug/L	15.857	251	-0.000
V	51	-0.343	ug/L	186.627	-2042	-0.004
Cr	52	0.215	ug/L	12.983	1971	0.003
Cr	53		ug/L		181673	0.146
Mn	55	0.081	ug/L	12.554	1978	0.002
Fe	57	-6.253	ug/L	14.834	9292	-0.003
Co	59	0.019	ug/L	11.089	253	0.000
Ni	60	0.240	ug/L	4.167	379	0.001
Cu	63		ug/L		346	-0.000
Cu	65	0.072	ug/L	13.221	191	0.000
Zn	66	2.430	ug/L	1.455	2674	0.006
Zn	67		ug/L		22349	0.030
Zn	68		ug/L		3450	0.006
> Ge	74		ug/L		395247	395246.645
As	75	0.528	ug/L	61.401	3650	0.002
Se	77		ug/L		10149	0.012
Se	82	1.065	ug/L	12.179	48	0.000
Kr	83		ug/L		1156	0.000
Sr	88	0.096	ug/L	4.736	1393	0.005
Y	89		ug/L		84	0.000
Zr	90	0.712	ug/L	23.158	6051	0.019
Mo	98	0.008	ug/L	74.639	205	0.000
Ag	107	0.009	ug/L	12.542	71	0.000
Cd	111	-0.011	ug/L	13.595	54	-0.000
Cd	114		ug/L		118	-0.000
> In	115		ug/L		231918	231917.847
Sn	120	0.215	ug/L	11.787	1691	0.004
Sb	121	0.190	ug/L	33.744	1896	0.003
Sb	123		ug/L		1764	0.004
Ba	135		ug/L		160	0.000
Ba	137	0.106	ug/L	14.879	265	0.001
Ho	165		ug/L		14	-0.000
> Lu	175		ug/L		287943	287942.916
Tl	205	-0.011	ug/L	18.767	541	-0.000
Pb	208	0.026	ug/L	9.476	973	0.001
Th	232	0.088	ug/L	35.041	3165	0.005
U	238	0.061	ug/L	7.111	1027	0.003

Sample ID: 1201318102

Report Date/Time: Monday, April 23, 2007 17:44:36

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		106.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		94.2			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201318103

Sample Date/Time: Monday, April 23, 2007 17:46:37

Sample Type:

Sample Description: HLA1 6020 LCS

Number of Replicates: 3

Batch ID: 626700|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\1201318103.119

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	44.864	ug/L	1.168	44911	0.117
Be	9	50.015	ug/L	2.934	15270	0.040
B	11	110.828	ug/L	2.400	29903	0.076
Na	23	2554.126	ug/L	9.500	4531334	11.823
Mg	24	2781.790	ug/L	5.583	4695734	12.262
Al	27	2228.900	ug/L	14.365	6649041	17.359
P	31	2240.583	ug/L	1.655	426358	1.103
K	39	2089.622	ug/L	3.835	11455290	27.636
Ca	43	2152.804	ug/L	1.020	22392	0.057
> Sc	45		ug/L		382656	382655.808
Ti	47	45.891	ug/L	1.925	22779	0.059
V	51	51.668	ug/L	2.368	258142	0.676
Cr	52	53.195	ug/L	2.014	258495	0.673
Cr	53		ug/L		238725	0.282
Mn	55	52.352	ug/L	3.060	433443	1.129
Fe	57	2112.456	ug/L	3.136	355904	0.903
Co	59	51.249	ug/L	1.838	309938	0.810
Ni	60	51.040	ug/L	1.420	66585	0.174
Cu	63		ug/L		156047	0.407
Cu	65	49.966	ug/L	1.954	74096	0.193
Zn	66	54.751	ug/L	3.073	56774	0.137
Zn	67		ug/L		34902	0.058
Zn	68		ug/L		43077	0.101
> Ge	74		ug/L		412155	412155.289
As	75	50.761	ug/L	1.275	62662	0.144
Se	77		ug/L		15707	0.025
Se	82	51.752	ug/L	1.046	5576	0.014
Kr	83		ug/L		1158	-0.000
Sr	88	53.775	ug/L	0.216	629742	2.667
Y	89		ug/L		106	0.000
Zr	90	51.066	ug/L	1.990	330553	1.394
Mo	98	52.337	ug/L	2.031	150167	0.636
Ag	107	52.991	ug/L	0.973	260942	1.106
Cd	111	52.600	ug/L	2.747	62111	0.263
Cd	114		ug/L		151484	0.641
> In	115		ug/L		235987	235986.926
Sn	120	51.385	ug/L	2.341	254511	1.076
Sb	121	56.454	ug/L	1.612	238579	1.006
Sb	123		ug/L		182136	0.768
Ba	135		ug/L		58322	0.197
Ba	137	51.837	ug/L	0.672	101524	0.342
Ho	165		ug/L		24	0.000
> Lu	175		ug/L		296266	296265.517
Tl	205	49.172	ug/L	2.451	600369	2.024
Pb	208	52.811	ug/L	0.965	732972	2.472
Th	232	51.521	ug/L	1.644	801206	2.698
U	238	52.361	ug/L	2.158	804487	2.715

Sample ID: 1201318103

Report Date/Time: Monday, April 23, 2007 17:49:22

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		109.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		103.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		96.9			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 184428001

Sample Date/Time: Monday, April 23, 2007 17:51:24

Sample Type:

Sample Description: HLA1 6020

Number of Replicates: 3

Batch ID: 626700|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\184428001.120

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	6.984	ug/L	1.388	7267	0.018
Be	9	0.020	ug/L	16.061	16	0.000
B	11	50.864	ug/L	1.644	14586	0.035
Na	23	89783.876	ug/L	5.899	164315960	415.605
Mg	24	23888.826	ug/L	9.406	41624233	105.301
Al	27	71.651	ug/L	22.742	222779	0.558
P	31	13.851	ug/L	5.340	7391	0.007
K	39	958.804	ug/L	4.232	5926324	12.680
Ca	43	94361.224	ug/L	1.814	990593	2.504
> Sc	45		ug/L		395361	395361.127
Ti	47	3.024	ug/L	26.777	1891	0.004
V	51	0.133	ug/L	892.674	273	0.002
Cr	52	2.763	ug/L	3.167	14835	0.035
Cr	53		ug/L		204413	0.176
Mn	55	3.640	ug/L	1.848	32456	0.079
Fe	57	437.531	ug/L	1.351	84822	0.187
Co	59	0.266	ug/L	2.599	1815	0.004
Ni	60	2.013	ug/L	0.293	2789	0.007
Cu	63		ug/L		8977	0.022
Cu	65	2.502	ug/L	1.736	3922	0.010
Zn	66	5.137	ug/L	2.838	5594	0.013
Zn	67		ug/L		27794	0.040
Zn	68		ug/L		11812	0.025
> Ge	74		ug/L		412930	412930.412
As	75	0.105	ug/L	503.882	3320	0.000
Se	77		ug/L		17198	0.028
Se	82	0.534	ug/L	88.274	-8	0.000
Kr	83		ug/L		1281	0.000
Sr	88	247.915	ug/L	0.501	2848810	12.297
Y	89		ug/L		3610	0.015
Zr	90	0.933	ug/L	25.331	7441	0.025
Mo	98	0.171	ug/L	12.581	663	0.002
Ag	107	0.018	ug/L	16.746	115	0.000
Cd	111	0.008	ug/L	82.524	75	0.000
Cd	114		ug/L		172	0.000
> In	115		ug/L		231657	231656.985
Sn	120	0.422	ug/L	5.273	2694	0.009
Sb	121	-0.054	ug/L	10.812	890	-0.001
Sb	123		ug/L		1043	0.001
Ba	135		ug/L		351544	1.168
Ba	137	306.407	ug/L	0.840	609158	2.024
Ho	165		ug/L		209	0.001
> Lu	175		ug/L		300899	300899.441
Tl	205	0.443	ug/L	32.388	6176	0.018
Pb	208	0.178	ug/L	4.420	3153	0.008
Th	232	0.233	ug/L	40.426	5582	0.012
U	238	0.680	ug/L	0.937	10723	0.035

Sample ID: 184428001

Report Date/Time: Monday, April 23, 2007 17:54:09

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		112.7			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		103.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.1			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.4			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Na	23	Sample is out of limits (over linear range)
	Ca	43	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: 184428002

Sample Date/Time: Monday, April 23, 2007 17:56:11

Sample Type:

Sample Description: HLA1 6020

Number of Replicates: 3

Batch ID: 626700|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\184428002.121

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	6.610	ug/L	1.470	7014	0.017
Be	9	0.024	ug/L	14.602	18	0.000
B	11	34.052	ug/L	2.415	10210	0.023
Na	23	38597.564	ug/L	10.984	72041512	178.666
Mg	24	23056.762	ug/L	2.082	40958245	101.633
Al	27	165.374	ug/L	9.243	521036	1.288
P	31	9.018	ug/L	9.242	6576	0.004
K	39	1596.455	ug/L	4.229	9442951	21.114
Ca	43	104767.836	ug/L	0.705	1121287	2.780
> Sc	45		ug/L		403061	403060.912
Ti	47	6.255	ug/L	2.683	3591	0.008
V	51	0.580	ug/L	36.348	2632	0.008
Cr	52	0.939	ug/L	10.327	5824	0.012
Cr	53		ug/L		208725	0.176
Mn	55	30.124	ug/L	1.431	263359	0.650
Fe	57	677.962	ug/L	2.754	127857	0.290
Co	59	0.299	ug/L	2.638	2057	0.005
Ni	60	1.401	ug/L	2.232	2002	0.005
Cu	63		ug/L		3686	0.008
Cu	65	1.040	ug/L	0.918	1716	0.004
Zn	66	3.784	ug/L	3.167	4154	0.009
Zn	67		ug/L		27974	0.042
Zn	68		ug/L		10762	0.023
> Ge	74		ug/L		409113	409113.429
As	75	0.202	ug/L	171.945	3401	0.001
Se	77		ug/L		18065	0.031
Se	82	0.879	ug/L	58.715	29	0.000
Kr	83		ug/L		1212	0.000
Sr	88	268.680	ug/L	0.772	3128746	13.327
Y	89		ug/L		2784	0.012
Zr	90	0.278	ug/L	12.416	3349	0.008
Mo	98	0.133	ug/L	8.863	563	0.002
Ag	107	0.010	ug/L	16.863	74	0.000
Cd	111	-0.006	ug/L	51.699	60	-0.000
Cd	114		ug/L		144	0.000
> In	115		ug/L		234742	234742.356
Sn	120	0.425	ug/L	5.062	2749	0.009
Sb	121	-0.081	ug/L	2.162	789	-0.001
Sb	123		ug/L		940	0.000
Ba	135		ug/L		331776	1.111
Ba	137	289.653	ug/L	0.914	571319	1.914
Ho	165		ug/L		130	0.000
> Lu	175		ug/L		298530	298529.585
Tl	205	0.106	ug/L	4.091	2003	0.004
Pb	208	0.234	ug/L	1.688	3922	0.011
Th	232	0.051	ug/L	17.520	2705	0.003
U	238	0.307	ug/L	2.047	4872	0.016

Sample ID: 184428002

Report Date/Time: Monday, April 23, 2007 17:58:57

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		114.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		102.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.7			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits	Message
	Ca	43	Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201318107

Sample Date/Time: Monday, April 23, 2007 18:00:59

Sample Type:

Sample Description: HLA1 6020 DUP

Number of Replicates: 3

Batch ID: 626700|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\1201318107.122

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	6.848	ug/L	1.866	7293	0.018
Be	9	0.012	ug/L	45.431	14	0.000
B	11	34.844	ug/L	4.541	10466	0.024
Na	23	32744.225	ug/L	9.932	61311925	151.571
Mg	24	25214.059	ug/L	7.890	44954171	111.142
Al	27	160.014	ug/L	8.264	506529	1.246
P	31	10.234	ug/L	8.597	6844	0.005
K	39	1692.510	ug/L	5.195	9987900	22.384
Ca	43	106034.524	ug/L	1.879	1139006	2.814
> Sc	45		ug/L		404601	404601.219
Ti	47	6.483	ug/L	1.526	3722	0.008
V	51	0.952	ug/L	92.412	4596	0.012
Cr	52	1.137	ug/L	4.307	6857	0.014
Cr	53		ug/L		214876	0.190
Mn	55	31.244	ug/L	2.502	274128	0.674
Fe	57	706.876	ug/L	2.649	133360	0.302
Co	59	0.304	ug/L	2.688	2100	0.005
Ni	60	1.444	ug/L	3.230	2070	0.005
Cu	63		ug/L		5763	0.013
Cu	65	1.684	ug/L	1.731	2732	0.007
Zn	66	4.101	ug/L	1.779	4497	0.010
Zn	67		ug/L		29386	0.045
Zn	68		ug/L		10909	0.023
> Ge	74		ug/L		410754	410754.075
As	75	0.060	ug/L	742.057	3247	0.000
Se	77		ug/L		19185	0.033
Se	82	0.204	ug/L	29.309	-44	0.000
Kr	83		ug/L		1306	0.000
Sr	88	275.253	ug/L	1.016	3179157	13.653
Y	89		ug/L		2745	0.012
Zr	90	0.119	ug/L	13.997	2318	0.003
Mo	98	0.122	ug/L	7.287	528	0.001
Ag	107	0.010	ug/L	34.007	75	0.000
Cd	111	0.011	ug/L	92.722	80	0.000
Cd	114		ug/L		151	0.000
> In	115		ug/L		232834	232833.964
Sn	120	0.324	ug/L	6.129	2233	0.007
Sb	121	-0.097	ug/L	13.013	715	-0.002
Sb	123		ug/L		968	0.000
Ba	135		ug/L		333034	1.122
Ba	137	293.680	ug/L	1.640	575832	1.940
Ho	165		ug/L		136	0.000
> Lu	175		ug/L		296753	296753.150
Tl	205	0.042	ug/L	2.754	1212	0.002
Pb	208	0.236	ug/L	0.922	3916	0.011
Th	232	0.001	ug/L	319.533	1918	0.000
U	238	0.324	ug/L	1.388	5105	0.017

Sample ID: 1201318107

Report Date/Time: Monday, April 23, 2007 18:03:45

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		115.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		102.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.1			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits	Message
	Ca	43	Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201318109

Sample Date/Time: Monday, April 23, 2007 18:05:47

Sample Type:

Sample Description: HLA1 6020 MS

Number of Replicates: 3

Batch ID: 626700|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\1201318109.123

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	50.047	ug/L	1.840	53174	0.131
Be	9	47.978	ug/L	1.042	15554	0.038
B	11	138.867	ug/L	3.269	39573	0.096
Na	23	38402.233	ug/L	3.806	72194792	177.762
Mg	24	25667.193	ug/L	4.106	45953153	113.140
Al	27	2250.341	ug/L	8.594	7121015	17.526
P	31	2181.703	ug/L	1.503	440853	1.074
K	39	3400.578	ug/L	6.027	19200950	44.974
Ca	43	110043.245	ug/L	1.188	1186656	2.920
> Sc	45		ug/L		406132	406132.477
Ti	47	51.686	ug/L	1.354	27184	0.066
V	51	49.917	ug/L	1.664	264747	0.653
Cr	52	49.893	ug/L	1.183	257449	0.631
Cr	53		ug/L		248611	0.271
Mn	55	80.761	ug/L	2.359	709080	1.742
Fe	57	2670.375	ug/L	1.994	474649	1.141
Co	59	47.182	ug/L	2.031	302928	0.745
Ni	60	46.954	ug/L	0.840	65032	0.160
Cu	63		ug/L		153576	0.377
Cu	65	45.878	ug/L	0.813	72232	0.178
Zn	66	52.839	ug/L	0.678	54316	0.132
Zn	67		ug/L		37893	0.066
Zn	68		ug/L		47011	0.112
> Ge	74		ug/L		408400	408400.188
As	75	49.642	ug/L	2.562	60787	0.141
Se	77		ug/L		23949	0.045
Se	82	49.153	ug/L	3.396	5244	0.013
Kr	83		ug/L		1254	0.000
Sr	88	334.213	ug/L	0.671	3818816	16.577
Y	89		ug/L		2772	0.012
Zr	90	51.902	ug/L	2.670	328008	1.417
Mo	98	53.944	ug/L	0.219	151104	0.655
Ag	107	51.890	ug/L	0.557	249444	1.083
Cd	111	51.765	ug/L	1.326	59681	0.259
Cd	114		ug/L		147077	0.638
> In	115		ug/L		230348	230348.309
Sn	120	51.642	ug/L	0.887	249736	1.081
Sb	121	56.728	ug/L	0.914	234029	1.011
Sb	123		ug/L		180152	0.778
Ba	135		ug/L		397742	1.347
Ba	137	350.661	ug/L	1.596	684225	2.317
Ho	165		ug/L		133	0.000
> Lu	175		ug/L		295375	295374.765
Tl	205	48.214	ug/L	2.133	586939	1.985
Pb	208	51.775	ug/L	1.103	716368	2.423
Th	232	51.883	ug/L	1.182	804376	2.717
U	238	53.423	ug/L	2.252	818196	2.770

Sample ID: 1201318109

Report Date/Time: Monday, April 23, 2007 18:08:34

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		115.7			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		102.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		92.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		96.6			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits	Message
	Ca	43	Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201318108

Sample Date/Time: Monday, April 23, 2007 18:10:34

Sample Type:

Sample Description: HLA1 6020 SDILT

Number of Replicates: 3

Batch ID: 626700|5|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\1201318108.124

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	1.364	ug/L	3.779	1427	0.004
Be	9	0.022	ug/L	76.159	16	0.000
B	11	9.217	ug/L	6.606	3187	0.006
Na	23	7387.995	ug/L	3.861	13225174	34.199
Mg	24	5227.196	ug/L	15.119	8910187	23.041
Al	27	35.158	ug/L	8.381	108076	0.274
P	31	-1.489	ug/L	31.109	4309	-0.001
K	39	327.311	ug/L	9.384	2565803	4.329
Ca	43	22076.156	ug/L	0.833	227026	0.586
> Sc	45		ug/L		386592	386591.526
Ti	47	0.944	ug/L	3.931	821	0.001
V	51	0.406	ug/L	160.447	1649	0.005
Cr	52	0.188	ug/L	33.054	1909	0.002
Cr	53		ug/L		139027	0.018
Mn	55	6.216	ug/L	0.492	53221	0.134
Fe	57	132.204	ug/L	1.376	32503	0.056
Co	59	0.066	ug/L	3.564	550	0.001
Ni	60	0.298	ug/L	3.563	469	0.001
Cu	63		ug/L		794	0.001
Cu	65	0.222	ug/L	6.810	422	0.001
Zn	66	1.020	ug/L	6.077	1299	0.003
Zn	67		ug/L		14139	0.008
Zn	68		ug/L		3349	0.005
> Ge	74		ug/L		401950	401950.163
As	75	0.277	ug/L	99.814	3430	0.001
Se	77		ug/L		7317	0.005
Se	82	1.139	ug/L	63.715	57	0.000
Kr	83		ug/L		1197	0.000
Sr	88	51.920	ug/L	0.527	610835	2.575
Y	89		ug/L		595	0.002
Zr	90	0.218	ug/L	14.963	2996	0.006
Mo	98	0.067	ug/L	23.126	378	0.001
Ag	107	0.009	ug/L	24.918	70	0.000
Cd	111	-0.003	ug/L	53.811	64	-0.000
Cd	114		ug/L		151	0.000
> In	115		ug/L		237076	237076.442
Sn	120	0.146	ug/L	3.136	1390	0.003
Sb	121	-0.161	ug/L	1.999	457	-0.003
Sb	123		ug/L		468	-0.002
Ba	135		ug/L		66716	0.224
Ba	137	58.450	ug/L	0.466	115265	0.386
Ho	165		ug/L		39	0.000
> Lu	175		ug/L		298336	298336.455
Tl	205	0.524	ug/L	29.758	7130	0.022
Pb	208	0.046	ug/L	1.265	1290	0.002
Th	232	0.145	ug/L	32.857	4174	0.008
U	238	0.071	ug/L	5.388	1222	0.004

Sample ID: 1201318108

Report Date/Time: Monday, April 23, 2007 18:13:19

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		110.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		100.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		95.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.6			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 23, 2007 18:15:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 6.125

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	44.279	ug/L	0.433	45561	0.116
Be	9	47.823	ug/L	1.252	15012	0.038
B	11	100.325	ug/L	1.577	27890	0.069
Na	23	6242.619	ug/L	4.577	11369051	28.897
Mg	24	6512.089	ug/L	12.151	11287972	28.705
Al	27	5492.221	ug/L	8.285	16825468	42.775
P	31	5329.970	ug/L	1.310	1036139	2.623
K	39	5317.639	ug/L	8.749	28567268	70.327
Ca	43	5175.187	ug/L	1.796	54557	0.137
> Sc	45		ug/L		393267	393267.465
Ti	47	50.038	ug/L	1.608	25495	0.064
V	51	51.024	ug/L	0.918	262047	0.667
Cr	52	50.819	ug/L	0.418	253896	0.643
Cr	53		ug/L		137139	0.007
Mn	55	50.938	ug/L	0.080	433578	1.099
Fe	57	4961.648	ug/L	0.375	844649	2.120
Co	59	50.039	ug/L	0.213	311076	0.791
Ni	60	49.942	ug/L	0.787	66972	0.170
Cu	63		ug/L		156986	0.398
Cu	65	48.999	ug/L	1.248	74697	0.190
Zn	66	53.626	ug/L	0.869	55107	0.134
Zn	67		ug/L		18238	0.018
Zn	68		ug/L		40704	0.097
> Ge	74		ug/L		408278	408278.112
As	75	48.110	ug/L	0.689	58997	0.137
Se	77		ug/L		8873	0.008
Se	82	53.880	ug/L	0.873	5754	0.014
Kr	83		ug/L		1175	0.000
Sr	88	53.529	ug/L	1.115	646012	2.655
Y	89		ug/L		113	0.000
Zr	90	51.372	ug/L	1.462	342768	1.403
Mo	98	51.289	ug/L	2.495	151688	0.623
Ag	107	52.781	ug/L	0.235	267874	1.101
Cd	111	53.001	ug/L	1.192	64513	0.265
Cd	114		ug/L		158679	0.652
> In	115		ug/L		243199	243199.301
Sn	120	50.132	ug/L	0.885	255968	1.050
Sb	121	50.638	ug/L	6.563	220673	0.903
Sb	123		ug/L		170061	0.695
Ba	135		ug/L		60152	0.194
Ba	137	51.155	ug/L	2.271	104735	0.338
Ho	165		ug/L		24	0.000
> Lu	175		ug/L		309791	309791.050
Tl	205	50.298	ug/L	1.746	641991	2.070
Pb	208	52.563	ug/L	1.615	762675	2.460
Th	232	50.862	ug/L	1.090	827109	2.663
U	238	51.554	ug/L	1.785	828101	2.673

Sample ID: QC Std 6

Report Date/Time: Monday, April 23, 2007 18:18:03

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	88.557				
Be	9	95.646				
B	11	100.325				
Na	23	124.852				
Mg	24	130.242				
Al	27	108.757				
P	31	106.599				
K	39	106.353				
Ca	43	103.504				
> Sc	45		112.1			
Ti	47	100.077				
V	51	102.048				
Cr	52	101.639				
Cr	53					
Mn	55	101.876				
Fe	57	99.233				
Co	59	100.078				
Ni	60	99.883				
Cu	63					
Cu	65	97.998				
Zn	66	107.252				
Zn	67					
Zn	68					
> Ge	74		102.2			
As	75	96.221				
Se	77					
Se	82	107.761				
Kr	83					
Sr	88	107.058				
Y	89					
Zr	90	102.744				
Mo	98	102.578				
Ag	107	105.561				
Cd	111	106.002				
Cd	114					
> In	115		97.7			
Sn	120	100.263				
Sb	121	101.275				
Sb	123					
Ba	135					
Ba	137	102.310				
Ho	165					
> Lu	175		101.4			
Tl	205	100.596				
Pb	208	105.125				
Th	232	101.724				
U	238	103.108				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	Na	23	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24	24CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 23, 2007 18:20:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 7.126

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	-0.004	ug/L	57.764	43	-0.000
Be	9	0.024	ug/L	18.739	16	0.000
B	11	2.174	ug/L	37.496	1254	0.001
Na	23	-0.504	ug/L	183.070	3334	-0.002
Mg	24	0.597	ug/L	155.713	1333	0.003
Al	27	0.193	ug/L	202.736	2667	0.002
P	31	-2.389	ug/L	39.601	3952	-0.001
K	39	-13.690	ug/L	23.335	785344	-0.181
Ca	43	-11.204	ug/L	34.223	402	-0.000
> Sc	45		ug/L		369268	369267.816
Ti	47	-0.429	ug/L	5.794	137	-0.001
V	51	-0.101	ug/L	349.444	-858	-0.001
Cr	52	0.059	ug/L	75.757	1224	0.001
Cr	53		ug/L		100802	-0.068
Mn	55	-0.012	ug/L	31.842	1217	-0.000
Fe	57	-8.248	ug/L	22.411	8882	-0.004
Co	59	0.007	ug/L	26.018	184	0.000
Ni	60	-0.004	ug/L	137.724	69	-0.000
Cu	63		ug/L		112	-0.001
Cu	65	-0.007	ug/L	48.904	75	-0.000
Zn	66	-0.053	ug/L	41.460	213	-0.000
Zn	67		ug/L		9036	-0.004
Zn	68		ug/L		1049	-0.000
> Ge	74		ug/L		389176	389175.566
As	75	0.363	ug/L	27.398	3414	0.001
Se	77		ug/L		4512	-0.002
Se	82	0.732	ug/L	22.497	13	0.000
Kr	83		ug/L		1180	0.000
Sr	88	0.020	ug/L	17.495	516	0.001
Y	89		ug/L		48	-0.000
Zr	90	0.351	ug/L	18.042	3797	0.010
Mo	98	0.127	ug/L	33.071	543	0.002
Ag	107	0.006	ug/L	28.078	56	0.000
Cd	111	-0.015	ug/L	69.627	49	-0.000
Cd	114		ug/L		116	-0.000
> In	115		ug/L		233335	233334.774
Sn	120	0.108	ug/L	18.102	1181	0.002
Sb	121	0.850	ug/L	29.088	4645	0.015
Sb	123		ug/L		3540	0.011
Ba	135		ug/L		42	0.000
Ba	137	0.004	ug/L	112.665	72	0.000
Ho	165		ug/L		14	-0.000
> Lu	175		ug/L		291958	291957.777
Tl	205	0.178	ug/L	22.593	2817	0.007
Pb	208	-0.008	ug/L	27.121	523	-0.000
Th	232	0.383	ug/L	29.049	7733	0.020
U	238	0.023	ug/L	26.131	464	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 23, 2007 18:22:50

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		105.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		97.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		95.5			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 184428003

Sample Date/Time: Monday, April 23, 2007 18:24:51

Sample Type:

Sample Description: HLA1 6020

Number of Replicates: 3

Batch ID: 626700|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\184428003.127

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	6.915	ug/L	0.254	7108	0.018
Be	9	0.013	ug/L	120.732	14	0.000
B	11	33.886	ug/L	2.678	9847	0.023
Na	23	37449.525	ug/L	6.374	67749677	173.352
Mg	24	25746.154	ug/L	10.517	44288184	113.488
Al	27	134.168	ug/L	10.018	410173	1.045
P	31	9.202	ug/L	9.846	6407	0.005
K	39	1575.332	ug/L	1.258	9039915	20.834
Ca	43	107458.449	ug/L	2.439	1114172	2.852
> Sc	45		ug/L		390571	390571.162
Ti	47	5.075	ug/L	5.605	2889	0.006
V	51	0.299	ug/L	181.452	1104	0.004
Cr	52	0.976	ug/L	5.776	5829	0.012
Cr	53		ug/L		188448	0.141
Mn	55	27.582	ug/L	0.717	233814	0.595
Fe	57	627.141	ug/L	2.036	115415	0.268
Co	59	0.271	ug/L	2.175	1823	0.004
Ni	60	1.386	ug/L	6.204	1922	0.005
Cu	63		ug/L		3217	0.007
Cu	65	0.930	ug/L	3.580	1496	0.004
Zn	66	3.798	ug/L	2.024	4048	0.010
Zn	67		ug/L		25238	0.037
Zn	68		ug/L		10055	0.022
> Ge	74		ug/L		397217	397216.967
As	75	-0.226	ug/L	825.880	2821	-0.001
Se	77		ug/L		17959	0.032
Se	82	0.467	ug/L	155.367	-15	0.000
Kr	83		ug/L		1197	0.000
Sr	88	274.685	ug/L	1.232	3051043	13.625
Y	89		ug/L		2504	0.011
Zr	90	1.040	ug/L	22.752	7851	0.028
Mo	98	0.139	ug/L	4.328	553	0.002
Ag	107	0.011	ug/L	8.170	76	0.000
Cd	111	0.005	ug/L	266.220	70	0.000
Cd	114		ug/L		146	0.000
> In	115		ug/L		223913	223913.223
Sn	120	0.311	ug/L	5.616	2083	0.007
Sb	121	0.249	ug/L	41.209	2068	0.004
Sb	123		ug/L		1929	0.005
Ba	135		ug/L		326170	1.119
Ba	137	292.575	ug/L	1.547	563575	1.933
Ho	165		ug/L		128	0.000
> Lu	175		ug/L		291561	291561.003
Tl	205	0.050	ug/L	8.075	1283	0.002
Pb	208	0.180	ug/L	3.130	3084	0.008
Th	232	0.157	ug/L	16.334	4267	0.008
U	238	0.348	ug/L	12.479	5374	0.018

Sample ID: 184428003

Report Date/Time: Monday, April 23, 2007 18:27:36

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		111.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		90.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		95.4			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits	Message
	Ca	43	Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 23, 2007 19:03:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 6.135

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	41.820	ug/L	1.071	43990	0.109
Be	9	46.543	ug/L	1.599	14935	0.037
B	11	98.956	ug/L	2.688	28128	0.068
Na	23	6330.586	ug/L	10.063	11785781	29.304
Mg	24	6232.864	ug/L	8.465	11043429	27.474
Al	27	5297.077	ug/L	3.166	16585341	41.255
P	31	5339.900	ug/L	1.851	1061028	2.628
K	39	4934.982	ug/L	14.000	27156643	65.267
Ca	43	5264.151	ug/L	0.705	56717	0.140
> Sc	45		ug/L		401995	401994.559
Ti	47	49.546	ug/L	0.233	25808	0.063
V	51	49.780	ug/L	1.767	261310	0.651
Cr	52	49.380	ug/L	2.359	252191	0.625
Cr	53		ug/L		155168	0.044
Mn	55	49.608	ug/L	0.205	431663	1.070
Fe	57	4917.062	ug/L	0.204	855736	2.101
Co	59	49.747	ug/L	0.816	316113	0.786
Ni	60	49.186	ug/L	2.046	67420	0.168
Cu	63		ug/L		158805	0.394
Cu	65	47.482	ug/L	0.963	73992	0.184
Zn	66	53.460	ug/L	0.687	54891	0.134
Zn	67		ug/L		20273	0.023
Zn	68		ug/L		40523	0.096
> Ge	74		ug/L		407929	407929.299
As	75	46.623	ug/L	1.145	57217	0.133
Se	77		ug/L		10303	0.012
Se	82	53.162	ug/L	3.343	5671	0.014
Kr	83		ug/L		1150	-0.000
Sr	88	54.292	ug/L	1.477	645086	2.693
Y	89		ug/L		128	0.000
Zr	90	51.082	ug/L	3.843	335509	1.395
Mo	98	51.797	ug/L	2.945	150806	0.629
Ag	107	52.961	ug/L	2.533	264615	1.105
Cd	111	52.715	ug/L	1.116	63177	0.264
Cd	114		ug/L		153604	0.641
> In	115		ug/L		239473	239472.553
Sn	120	49.939	ug/L	2.174	251035	1.046
Sb	121	49.408	ug/L	8.284	211898	0.881
Sb	123		ug/L		163397	0.679
Ba	135		ug/L		59335	0.198
Ba	137	52.370	ug/L	0.074	103811	0.346
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		299860	299860.401
Tl	205	51.019	ug/L	0.804	630430	2.100
Pb	208	52.926	ug/L	0.965	743465	2.477
Th	232	50.343	ug/L	1.179	792457	2.636
U	238	51.478	ug/L	0.732	800523	2.669

Sample ID: QC Std 6

Report Date/Time: Monday, April 23, 2007 19:05:54

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	83.639				
Be	9	93.085				
B	11	98.956				
Na	23	126.612				
Mg	24	124.657				
Al	27	104.893				
P	31	106.798				
K	39	98.700				
Ca	43	105.283				
> Sc	45		114.5			
Ti	47	99.091				
V	51	99.560				
Cr	52	98.760				
Cr	53					
Mn	55	99.216				
Fe	57	98.341				
Co	59	99.493				
Ni	60	98.372				
Cu	63					
Cu	65	94.965				
Zn	66	106.920				
Zn	67					
Zn	68					
> Ge	74		102.2			
As	75	93.247				
Se	77					
Se	82	106.325				
Kr	83					
Sr	88	108.583				
Y	89					
Zr	90	102.165				
Mo	98	103.594				
Ag	107	105.923				
Cd	111	105.430				
Cd	114					
> In	115		96.2			
Sn	120	99.878				
Sb	121	98.816				
Sb	123					
Ba	135					
Ba	137	104.739				
Ho	165					
> Lu	175		98.1			
Tl	205	102.039				
Pb	208	105.853				
Th	232	100.686				
U	238	102.955				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Li	7CCV is out of limits (+/- 10%)
QC Std 6	Na	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 23, 2007 19:07:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070423\QC Std 7.136

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	-0.005 ug/L	142.483	44	-0.000
Be	9	0.004 ug/L	60.295	11	0.000
B	11	2.075 ug/L	51.680	1285	0.001
Na	23	3.905 ug/L	62.147	11338	0.018
Mg	24	0.572 ug/L	62.984	1333	0.003
Al	27	0.705 ug/L	23.692	4334	0.005
P	31	-2.141 ug/L	53.638	4184	-0.001
K	39	-2.991 ug/L	192.551	877513	-0.040
Ca	43	-11.051 ug/L	15.399	423	-0.000
> Sc	45	ug/L		386767	386766.879
Ti	47	-0.431 ug/L	8.080	142	-0.001
V	51	-0.645 ug/L	29.413	-3668	-0.008
Cr	52	0.058 ug/L	66.850	1277	0.001
Cr	53	ug/L		116271	-0.041
Mn	55	-0.009 ug/L	73.217	1304	-0.000
Fe	57	2.623 ug/L	57.595	11099	0.001
Co	59	0.008 ug/L	21.443	199	0.000
Ni	60	-0.000 ug/L	3175.080	77	-0.000
Cu	63	ug/L		121	-0.001
Cu	65	-0.002 ug/L	388.344	86	-0.000
Zn	66	-0.053 ug/L	11.785	214	-0.000
Zn	67	ug/L		10617	0.000
Zn	68	ug/L		1191	-0.000
> Ge	74	ug/L		390753	390752.827
As	75	0.175 ug/L	216.427	3217	0.000
Se	77	ug/L		5734	0.001
Se	82	0.318 ug/L	128.200	-30	0.000
Kr	83	ug/L		1220	0.000
Sr	88	0.019 ug/L	3.721	505	0.001
Y	89	ug/L		53	-0.000
Zr	90	0.350 ug/L	15.432	3754	0.010
Mo	98	0.102 ug/L	33.916	467	0.001
Ag	107	0.005 ug/L	2.124	51	0.000
Cd	111	-0.031 ug/L	6.077	31	-0.000
Cd	114	ug/L		110	-0.000
> In	115	ug/L		230859	230859.028
Sn	120	0.115 ug/L	18.433	1200	0.002
Sb	121	0.892 ug/L	26.117	4781	0.016
Sb	123	ug/L		3699	0.012
Ba	135	ug/L		42	0.000
Ba	137	0.012 ug/L	30.831	85	0.000
Ho	165	ug/L		10	-0.000
> Lu	175	ug/L		283551	283551.321
Tl	205	0.131 ug/L	28.526	2195	0.005
Pb	208	-0.006 ug/L	14.454	538	-0.000
Th	232	0.382 ug/L	30.544	7471	0.020
U	238	0.023 ug/L	33.597	451	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 23, 2007 19:10:41

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9998
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		110.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		97.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		92.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		92.8			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Friday, April 27, 2007 09:13:28

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.4540

Tuning File: c:\elandata\Tuning\default2.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Number of Replicates: 5

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD
Be	9.0		2573.6		2573.632		56.066		2.2
Mg	24.0		28851.5		28851.506		216.926		0.8
Co	58.9		71061.9		71061.918		697.887		1.0
Rh	102.9		134679.7		134679.711		1164.903		0.9
In	114.9		175336.1		175336.096		1514.486		0.9
Pb	208.0		83392.9		83392.898		316.844		0.4
[> Ba	137.9		139427.7		139427.658		1125.666		0.8
[Ba++	69.0		4285.3		0.031		0.000		1.4
[> Ce	139.9		173528.8		173528.834		1565.522		0.9
[CeO	155.9		4668.6		0.027		0.000		1.3
Bkgd	220.0		9.1		9.100		2.043		22.5

Current Optimization File Data

Current Value	Description
0.93	Nebulizer Gas Flow
7.50	Lens Voltage
1450.00	ICP RF Power
-1875.00	Analog Stage Voltage
1350.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	8.0	3157.7
Co	59	21	8.3	103686.9
In	115	21	9.3	241451.4

ICPMS#3 Instrument Tuning Report

File Name: 070427.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	604	2080	0.642
Be	9.0	9.1	2054	2080	0.676
Mg	24.0	24.0	5727	2140	0.696
Mg	25.0	25.0	5826	2030	0.628
Mg	26.0	25.9	6240	2160	0.663
Co	58.9	58.9	14157	2140	0.645
Rh	102.9	102.9	24868	2200	0.688
In	114.9	114.9	27780	2210	0.695
Ce	139.9	139.9	33880	2260	0.650
Pb	206.0	205.9	49943	2350	0.691
Pb	207.0	207.0	50238	2410	0.643
Pb	208.0	208.0	50431	2340	0.665
U	238.1	238.1	57770	2420	0.717

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, April 27, 2007 16:47:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\Blank.128

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	ug/L		18	
| Be	9	ug/L		9	
| B	11	ug/L		755	
| Na	23	ug/L		5668	
| Mg	24	ug/L		1000	
| Al	27	ug/L		2667	
| P	31	ug/L		6243	
| K	39	ug/L		992338	
| Ca	43	ug/L		475	
> Sc	45	ug/L		938972	
| Ti	47	ug/L		208	
| V	51	ug/L		-6892	
| Cr	52	ug/L		2299	
| Cr	53	ug/L		113845	
| Mn	55	ug/L		1200	
| Fe	57	ug/L		9177	
| Co	59	ug/L		121	
| Ni	60	ug/L		61	
| Cu	63	ug/L		205	
[Cu	65	ug/L		97	
[Zn	66	ug/L		303	
| Zn	67	ug/L		11405	
| Zn	68	ug/L		1318	
> Ge	74	ug/L		376445	
| As	75	ug/L		1903	
| Se	77	ug/L		6246	
| Se	82	ug/L		-42	
[Kr	83	ug/L		1021	
[Sr	88	ug/L		271	
| Y	89	ug/L		63	
| Zr	90	ug/L		628	
| Mo	98	ug/L		60	
| Ag	107	ug/L		38	
| Cd	111	ug/L		14	
| Cd	114	ug/L		48	
> In	115	ug/L		232173	
| Sn	120	ug/L		705	
| Sb	121	ug/L		175	
[Sb	123	ug/L		171	
[Ba	135	ug/L		49	
| Ba	137	ug/L		69	
| Ho	165	ug/L		19	
> Lu	175	ug/L		287954	
| Tl	205	ug/L		203	
| Pb	208	ug/L		452	
Th	232	ug/L		495	
[U	238	ug/L		31	

Sample ID: Blank

Report Date/Time: Friday, April 27, 2007 16:50:06

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Simple Linear	
Be	9Linear Thru Zero	
B	11Simple Linear	
Na	23Simple Linear	
Mg	24Simple Linear	
Al	27Simple Linear	
P	31Simple Linear	
K	39Simple Linear	
Ca	43Simple Linear	
Sc	45Linear Thru Zero	
Ti	47Simple Linear	
V	51Simple Linear	
Cr	52Simple Linear	
Cr	53Simple Linear	
Mn	55Simple Linear	
Fe	57Simple Linear	
Co	59Simple Linear	
Ni	60Simple Linear	
Cu	63Simple Linear	
Cu	65Simple Linear	
Zn	66Simple Linear	
Zn	67Simple Linear	
Zn	68Simple Linear	
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Sr	88Simple Linear	
Y	89Simple Linear	
Zr	90Simple Linear	
Mo	98Simple Linear	
Ag	107Simple Linear	
Cd	111Simple Linear	
Cd	114Simple Linear	
In	115Simple Linear	
Sn	120Simple Linear	
Sb	121Simple Linear	
Sb	123Simple Linear	
Ba	135Simple Linear	
Ba	137Simple Linear	
Ho	165Simple Linear	
Lu	175Simple Linear	
Tl	205Simple Linear	
Pb	208Simple Linear	
Th	232Simple Linear	
U	238Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, April 27, 2007 16:52:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\Standard 1.129

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
| Li	7	10.000 ug/L	0.902	6840	0.008
| Be	9	10.000 ug/L	2.509	2694	0.003
| B	11	20.000 ug/L	2.951	5044	0.005
| Na	23	1000.000 ug/L	4.810	1217196	1.374
| Mg	24	1000.000 ug/L	5.960	2340805	2.652
| Al	27	1000.000 ug/L	11.444	3074078	3.488
| P	31	1000.000 ug/L	1.697	211953	0.234
| K	39	1000.000 ug/L	2.006	6122500	5.886
| Ca	43	1000.000 ug/L	1.330	11553	0.013
> Sc	45	ug/L		881761	881760.929
| Ti	47	10.000 ug/L	1.272	5159	0.006
| V	51	10.000 ug/L	9.592	41547	0.054
| Cr	52	10.000 ug/L	2.133	46362	0.050
| Cr	53	ug/L		116038	0.010
| Mn	55	10.000 ug/L	2.536	76493	0.085
| Fe	57	1000.000 ug/L	1.555	162823	0.175
| Co	59	10.000 ug/L	2.477	58375	0.066
| Ni	60	10.000 ug/L	2.293	12684	0.014
| Cu	63	ug/L		30892	0.035
| Cu	65	10.000 ug/L	1.602	14585	0.016
| Zn	66	10.000 ug/L	1.643	10413	0.026
| Zn	67	ug/L		12714	0.003
| Zn	68	ug/L		8737	0.019
> Ge	74	ug/L		384231	384231.403
| As	75	10.000 ug/L	1.298	12673	0.028
| Se	77	ug/L		6360	-0.000
| Se	82	10.000 ug/L	2.092	967	0.003
| Kr	83	ug/L		1039	-0.000
| Sr	88	10.000 ug/L	0.490	122605	0.511
| Y	89	ug/L		80	0.000
| Zr	90	10.000 ug/L	5.251	59836	0.247
| Mo	98	10.000 ug/L	1.176	28711	0.120
| Ag	107	10.000 ug/L	0.722	51729	0.216
| Cd	111	10.000 ug/L	1.723	11957	0.050
| Cd	114	ug/L		28403	0.118
> In	115	ug/L		239593	239592.583
| Sn	120	10.000 ug/L	0.960	47464	0.195
| Sb	121	10.000 ug/L	14.119	32075	0.133
| Sb	123	ug/L		24489	0.101
| Ba	135	ug/L		10975	0.037
| Ba	137	10.000 ug/L	0.483	18965	0.063
| Ho	165	ug/L		16	-0.000
> Lu	175	ug/L		299288	299287.587
| Tl	205	10.000 ug/L	1.664	123524	0.412
| Pb	208	10.000 ug/L	0.721	136478	0.454
| Th	232	10.000 ug/L	3.501	134970	0.449
| U	238	10.000 ug/L	1.090	141472	0.473

Sample ID: Standard 1

Report Date/Time: Friday, April 27, 2007 16:54:46

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
L Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
L Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Th	232					
L U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, April 27, 2007 16:56:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\Standard 2.130

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	99.953	ug/L	2.674	67275	0.074
Be	9	99.966	ug/L	2.288	26812	0.029
B	11	199.947	ug/L	2.960	44309	0.048
Na	23	9998.275	ug/L	6.236	12284359	13.502
Mg	24	9977.079	ug/L	1.332	19601289	21.523
Al	27	10000.449	ug/L	10.112	31856355	35.035
P	31	9986.264	ug/L	3.109	1873770	2.053
K	39	9992.775	ug/L	6.454	50873348	54.856
Ca	43	9995.764	ug/L	3.460	110383	0.121
> Sc	45		ug/L		910451	910450.591
Ti	47	99.970	ug/L	3.512	49926	0.055
V	51	99.914	ug/L	1.484	449809	0.502
Cr	52	99.950	ug/L	2.999	436755	0.477
Cr	53		ug/L		156261	0.050
Mn	55	99.933	ug/L	3.765	729491	0.801
Fe	57	9991.816	ug/L	2.857	1478977	1.616
Co	59	99.940	ug/L	2.304	567079	0.623
Ni	60	99.942	ug/L	2.778	123177	0.135
Cu	63		ug/L		301794	0.332
Cu	65	99.956	ug/L	3.606	143275	0.157
Zn	66	99.984	ug/L	1.198	98804	0.259
Zn	67		ug/L		26673	0.040
Zn	68		ug/L		71737	0.185
> Ge	74		ug/L		380503	380502.752
As	75	99.996	ug/L	1.037	107716	0.278
Se	77		ug/L		12590	0.016
Se	82	99.989	ug/L	1.043	9844	0.026
Kr	83		ug/L		1018	-0.000
Sr	88	99.978	ug/L	0.466	1179540	4.995
Y	89		ug/L		121	0.000
Zr	90	100.104	ug/L	1.259	652141	2.759
Mo	98	100.022	ug/L	1.603	288921	1.223
Ag	107	99.992	ug/L	0.215	505108	2.139
Cd	111	99.995	ug/L	0.828	117067	0.496
Cd	114		ug/L		280803	1.189
> In	115		ug/L		236112	236111.968
Sn	120	100.009	ug/L	1.059	465370	1.968
Sb	121	100.187	ug/L	3.144	387048	1.639
Sb	123		ug/L		293892	1.244
Ba	135		ug/L		108737	0.366
Ba	137	100.009	ug/L	1.269	189170	0.637
Ho	165		ug/L		16	-0.000
> Lu	175		ug/L		296736	296735.839
Tl	205	99.976	ug/L	0.997	1193760	4.022
Pb	208	99.994	ug/L	1.273	1340445	4.516
Th	232	100.058	ug/L	0.343	1416256	4.771
U	238	99.991	ug/L	0.888	1390142	4.685

Sample ID: Standard 2

Report Date/Time: Friday, April 27, 2007 16:59:27

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
L Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
L Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Th	232					
L U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, April 27, 2007 17:01:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 1.131

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	54.090	ug/L	2.440	35076	0.040
Be	9	54.525	ug/L	2.999	14090	0.016
B	11	111.843	ug/L	2.340	24185	0.027
Na	23	6378.242	ug/L	1.919	7560273	8.613
Mg	24	5838.351	ug/L	7.487	11056167	12.595
Al	27	4901.600	ug/L	2.469	15062733	17.172
P	31	5900.032	ug/L	1.814	1069040	1.213
K	39	5316.143	ug/L	6.516	26527405	29.184
Ca	43	5330.294	ug/L	1.418	56931	0.064
> Sc	45		ug/L		876909	876908.802
Ti	47	52.839	ug/L	1.095	25521	0.029
V	51	54.020	ug/L	2.748	231260	0.271
Cr	52	53.856	ug/L	2.118	227699	0.257
Cr	53		ug/L		132989	0.031
Mn	55	54.080	ug/L	1.859	380911	0.433
Fe	57	5439.395	ug/L	1.626	779619	0.879
Co	59	53.934	ug/L	1.690	294870	0.336
Ni	60	53.836	ug/L	1.807	63950	0.073
Cu	63		ug/L		156038	0.178
Cu	65	52.933	ug/L	1.013	73158	0.083
Zn	66	52.169	ug/L	1.083	51835	0.135
Zn	67		ug/L		18991	0.019
Zn	68		ug/L		37826	0.096
> Ge	74		ug/L		381509	381508.611
As	75	47.047	ug/L	0.655	51838	0.131
Se	77		ug/L		9155	0.007
Se	82	53.697	ug/L	1.433	5282	0.014
Kr	83		ug/L		934	-0.000
Sr	88	51.830	ug/L	1.685	613539	2.589
Y	89		ug/L		121	0.000
Zr	90	50.229	ug/L	2.649	328568	1.385
Mo	98	50.659	ug/L	0.801	146823	0.620
Ag	107	51.555	ug/L	0.460	261264	1.103
Cd	111	51.936	ug/L	1.255	60999	0.257
Cd	114		ug/L		145923	0.616
> In	115		ug/L		236853	236852.663
Sn	120	50.147	ug/L	0.777	234442	0.987
Sb	121	51.849	ug/L	4.811	201020	0.848
Sb	123		ug/L		152498	0.643
Ba	135		ug/L		54694	0.186
Ba	137	50.935	ug/L	1.523	95660	0.325
Ho	165		ug/L		17	-0.000
> Lu	175		ug/L		294527	294526.841
Tl	205	50.595	ug/L	0.846	599737	2.036
Pb	208	52.208	ug/L	0.979	694887	2.358
Th	232	50.966	ug/L	1.821	716253	2.430
U	238	51.916	ug/L	0.749	716412	2.432

Sample ID: QC Std 1

Report Date/Time: Friday, April 27, 2007 17:04:09

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	108.181				
Be	9	109.050				
B	11	111.843				
Na	23	127.565				
Mg	24	116.767				
Al	27	97.061				
P	31	118.001				
K	39	106.323				
Ca	43	106.606				
> Sc	45		93.4			
Ti	47	105.678				
V	51	108.041				
Cr	52	107.711				
Cr	53					
Mn	55	108.159				
Fe	57	108.788				
Co	59	107.869				
Ni	60	107.672				
Cu	63					
Cu	65	105.867				
Zn	66	104.338				
Zn	67					
Zn	68					
> Ge	74		101.3			
As	75	94.094				
Se	77					
Se	82	107.393				
Kr	83					
Sr	88	103.660				
Y	89					
Zr	90	100.459				
Mo	98	101.317				
Ag	107	103.110				
Cd	111	103.871				
Cd	114					
> In	115		102.0			
Sn	120	100.294				
Sb	121	103.698				
Sb	123					
Ba	135					
Ba	137	101.871				
Ho	165					
> Lu	175		102.3			
Tl	205	101.191				
Pb	208	104.417				
Th	232	101.931				
U	238	103.832				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 1	B	111CV is out of limits (+/- 10%)
QC Std 1	Na	231CV is out of limits (+/- 10%)
QC Std 1	Mg	241CV is out of limits (+/- 10%)
QC Std 1	P	311CV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, April 27, 2007 17:06:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 2.132

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.014	ug/L	69.048	27	0.000
Be	9	0.010	ug/L	42.266	12	0.000
B	11	3.934	ug/L	25.771	1626	0.001
Na	23	-0.480	ug/L	608.502	5001	-0.001
Mg	24	0.337	ug/L	171.628	1667	0.001
Al	27	0.010	ug/L	4648.810	2667	0.000
P	31	-0.518	ug/L	72.695	6094	-0.000
K	39	-7.719	ug/L	64.388	944934	-0.042
Ca	43	4.434	ug/L	29.558	521	0.000
> Sc	45		ug/L		931478	931478.285
Ti	47	0.192	ug/L	30.625	304	0.000
V	51	0.331	ug/L	73.952	-5297	0.002
Cr	52	-0.089	ug/L	41.731	1885	-0.000
Cr	53		ug/L		113740	0.001
Mn	55	0.004	ug/L	272.200	1217	0.000
Fe	57	0.384	ug/L	213.332	9161	0.000
Co	59	0.009	ug/L	8.683	171	0.000
Ni	60	0.001	ug/L	545.133	62	0.000
Cu	63		ug/L		234	0.000
Cu	65	-0.007	ug/L	28.412	86	-0.000
Zn	66	-0.008	ug/L	149.329	290	-0.000
Zn	67		ug/L		11875	0.002
Zn	68		ug/L		1378	0.000
> Ge	74		ug/L		370090	370090.326
As	75	0.316	ug/L	70.377	2197	0.001
Se	77		ug/L		5638	-0.001
Se	82	0.121	ug/L	368.968	-30	0.000
Kr	83		ug/L		993	-0.000
Sr	88	-0.001	ug/L	69.636	256	-0.000
Y	89		ug/L		58	-0.000
Zr	90	0.690	ug/L	16.359	4947	0.019
Mo	98	0.220	ug/L	17.143	671	0.003
Ag	107	0.005	ug/L	44.121	61	0.000
Cd	111	0.004	ug/L	127.078	19	0.000
Cd	114		ug/L		55	0.000
> In	115		ug/L		227984	227983.565
Sn	120	0.142	ug/L	21.710	1327	0.003
Sb	121	2.003	ug/L	20.555	7629	0.033
Sb	123		ug/L		5809	0.025
Ba	135		ug/L		52	0.000
Ba	137	0.007	ug/L	79.290	80	0.000
Ho	165		ug/L		18	-0.000
> Lu	175		ug/L		284603	284602.904
Tl	205	0.080	ug/L	33.214	1119	0.003
Pb	208	0.002	ug/L	58.267	474	0.000
Th	232	0.579	ug/L	26.568	8341	0.028
U	238	0.029	ug/L	27.638	413	0.001

Sample ID: QC Std 2

Report Date/Time: Friday, April 27, 2007 17:08:55

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		99.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		98.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		98.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.8			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 2	Sb	121ICB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, April 27, 2007 17:10:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 3.133

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	10.330 ug/L	0.406	7072	0.008
|	Be	9	0.538 ug/L	3.971	156	0.000
|	B	11	15.877 ug/L	2.817	4255	0.004
|	Na	23	304.371 ug/L	9.035	385147	0.411
|	Mg	24	19.102 ug/L	9.181	39054	0.041
|	Al	27	17.358 ug/L	16.241	58789	0.061
|	P	31	44.973 ug/L	2.202	14679	0.009
|	K	39	268.191 ug/L	10.160	2335811	1.472
|	Ca	43	101.925 ug/L	0.706	1605	0.001
>	Sc	45	ug/L		923656	923656.297
|	Ti	47	8.255 ug/L	3.339	4372	0.005
|	V	51	11.169 ug/L	2.905	45001	0.056
|	Cr	52	2.900 ug/L	2.068	15058	0.014
|	Cr	53	ug/L		111516	-0.001
|	Mn	55	5.014 ug/L	0.824	38282	0.040
|	Fe	57	26.200 ug/L	4.195	12941	0.004
|	Co	59	1.012 ug/L	1.737	5944	0.006
|	Ni	60	2.003 ug/L	1.231	2564	0.003
|	Cu	63	ug/L		3297	0.003
|	Cu	65	0.988 ug/L	6.250	1532	0.002
|	Zn	66	10.380 ug/L	0.729	10339	0.027
|	Zn	67	ug/L		12650	0.004
|	Zn	68	ug/L		8325	0.019
>	Ge	74	ug/L		373469	373468.997
|	As	75	5.065 ug/L	8.655	7150	0.014
|	Se	77	ug/L		5598	-0.002
|	Se	82	4.691 ug/L	18.550	413	0.001
|	Kr	83	ug/L		1020	0.000
|	Sr	88	10.310 ug/L	0.449	120221	0.515
|	Y	89	ug/L		71	0.000
|	Zr	90	2.764 ug/L	10.130	18370	0.076
|	Mo	98	0.535 ug/L	1.172	1585	0.007
|	Ag	107	1.044 ug/L	0.684	5237	0.022
|	Cd	111	0.993 ug/L	0.646	1160	0.005
|	Cd	114	ug/L		2846	0.012
>	In	115	ug/L		232893	232892.636
|	Sn	120	5.016 ug/L	1.826	23693	0.099
|	Sb	121	1.964 ug/L	9.525	7659	0.032
|	Sb	123	ug/L		5795	0.024
|	Ba	135	ug/L		2200	0.007
|	Ba	137	2.035 ug/L	1.821	3804	0.013
|	Ho	165	ug/L		17	-0.000
>	Lu	175	ug/L		288105	288105.078
|	Tl	205	1.032 ug/L	0.390	12171	0.042
|	Pb	208	2.096 ug/L	0.074	27726	0.095
|	Th	232	1.029 ug/L	3.619	14631	0.049
	U	238	0.208 ug/L	3.996	2842	0.010

Sample ID: QC Std 3

Report Date/Time: Friday, April 27, 2007 17:13:38

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	103.303				
Be	9	107.651				
B	11	105.849				
Na	23	121.748				
Mg	24	127.349				
Al	27	115.719				
P	31	89.946				
K	39	89.397				
Ca	43	101.925				
> Sc	45			98.4		
Ti	47	82.547				
V	51	111.691				
Cr	52	96.670				
Cr	53					
Mn	55	100.287				
Fe	57	104.802				
Co	59	101.170				
Ni	60	100.138				
Cu	63					
Cu	65	98.779				
Zn	66	103.804				
Zn	67					
Zn	68					
> Ge	74			99.2		
As	75	101.291				
Se	77					
Se	82	93.818				
Kr	83					
Sr	88	103.097				
Y	89					
Zr	90	138.219				
Mo	98	107.024				
Ag	107	104.352				
Cd	111	99.261				
Cd	114					
> In	115			100.3		
Sn	120	100.313				
Sb	121	98.212				
Sb	123					
Ba	135					
Ba	137	101.729				
Ho	165					
> Lu	175			100.1		
Tl	205	103.247				
Pb	208	104.805				
Th	232	102.883				
U	238	104.129				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 3	Zr	90CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, April 27, 2007 17:15:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 4.134

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.560	ug/L	7.526	405	0.000
Be	9	-0.005	ug/L	105.734	8	-0.000
B	11	7.191	ug/L	10.904	2362	0.002
Na	23	111254.776	ug/L	7.222	140546438	150.240
Mg	24	94536.799	ug/L	9.824	190517905	203.938
Al	27	92140.138	ug/L	10.630	301594842	322.799
P	31	90272.574	ug/L	6.962	17358506	18.555
K	39	86967.371	ug/L	8.536	447158616	477.417
Ca	43	87266.760	ug/L	7.340	986675	1.055
> Sc	45		ug/L		938245	938245.226
Ti	47	1634.804	ug/L	7.054	835946	0.894
V	51	0.239	ug/L	77.294	-5757	0.001
Cr	52	0.340	ug/L	9.380	3817	0.002
Cr	53		ug/L		98570	-0.016
Mn	55	2.090	ug/L	6.842	16860	0.017
Fe	57	94265.564	ug/L	6.528	14265495	15.241
Co	59	0.243	ug/L	9.668	1538	0.002
Ni	60	1.527	ug/L	5.721	1996	0.002
Cu	63		ug/L		4476	0.005
Cu	65	2.672	ug/L	6.362	4032	0.004
Zn	66	6.605	ug/L	1.729	6561	0.017
Zn	67		ug/L		11386	0.001
Zn	68		ug/L		3807	0.007
> Ge	74		ug/L		366330	366329.862
As	75	0.306	ug/L	51.729	2163	0.001
Se	77		ug/L		6972	0.002
Se	82	-0.255	ug/L	86.669	-65	-0.000
Kr	83		ug/L		1085	0.000
Sr	88	3.182	ug/L	1.681	35758	0.159
Y	89		ug/L		523	0.002
Zr	90	0.819	ug/L	19.075	5646	0.023
Mo	98	1877.564	ug/L	2.079	5127965	22.966
Ag	107	0.087	ug/L	6.886	452	0.002
Cd	111	-0.051	ug/L	250.913	-42	-0.000
Cd	114		ug/L		6674	0.030
> In	115		ug/L		223288	223287.861
Sn	120	0.399	ug/L	4.339	2430	0.008
Sb	121	0.558	ug/L	8.901	2205	0.009
Sb	123		ug/L		1724	0.007
Ba	135		ug/L		414	0.001
Ba	137	0.353	ug/L	3.140	714	0.002
Ho	165		ug/L		116	0.000
> Lu	175		ug/L		287111	287111.456
Tl	205	0.017	ug/L	22.886	395	0.001
Pb	208	0.469	ug/L	0.877	6535	0.021
Th	232	0.155	ug/L	25.125	2611	0.007
U	238	0.005	ug/L	21.749	96	0.000

Sample ID: QC Std 4

Report Date/Time: Friday, April 27, 2007 17:18:21

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11	143.817				
Na	23	111.255				
Mg	24	94.556				
Al	27	92.140				
P	31	90.282				
K	39	86.967				
Ca	43	87.267				
> Sc	45		99.9			
Ti	47	81.740				
V	51					
Cr	52	15.473				
Cr	53					
Mn	55	99.540				
Fe	57	94.266				
Co	59	121.703				
Ni	60	84.860				
Cu	63					
Cu	65	106.878				
Zn	66	110.091				
Zn	67					
Zn	68					
> Ge	74		97.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88	106.078				
Y	89					
Zr	90					
Mo	98	93.878				
Ag	107					
Cd	111	-50.649				
Cd	114					
> In	115		96.2			
Sn	120					
Sb	121	111.528				
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.7			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, April 27, 2007 17:20:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 5.135

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	21.558	ug/L	3.645	14066	0.016
Be	9	20.111	ug/L	2.195	5232	0.006
B	11	26.892	ug/L	2.158	6387	0.006
Na	23	98247.801	ug/L	17.435	116936858	132.675
Mg	24	98488.808	ug/L	4.647	187340085	212.463
Al	27	95793.020	ug/L	7.172	295831883	335.597
P	31	96395.417	ug/L	1.205	17474663	19.813
K	39	98856.914	ug/L	2.590	479427795	542.685
Ca	43	91853.789	ug/L	1.679	979172	1.110
Sc	45		ug/L		881756	881755.505
Ti	47	1719.502	ug/L	1.494	828912	0.940
V	51	20.386	ug/L	1.627	83759	0.102
Cr	52	20.081	ug/L	0.602	86744	0.096
Cr	53		ug/L		103721	-0.004
Mn	55	21.949	ug/L	1.588	156141	0.176
Fe	57	100987.162	ug/L	1.584	14403521	16.328
Co	59	19.690	ug/L	1.061	108336	0.123
Ni	60	20.305	ug/L	1.663	24291	0.027
Cu	63		ug/L		58924	0.067
Cu	65	21.433	ug/L	2.588	29837	0.034
Zn	66	25.544	ug/L	0.789	24272	0.066
Zn	67		ug/L		13596	0.007
Zn	68		ug/L		16159	0.041
Ge	74		ug/L		362578	362578.165
As	75	20.496	ug/L	1.670	22497	0.057
Se	77		ug/L		8091	0.006
Se	82	19.379	ug/L	3.880	1786	0.005
Kr	83		ug/L		1069	0.000
Sr	88	24.229	ug/L	0.725	267303	1.210
Y	89		ug/L		556	0.002
Zr	90	20.236	ug/L	2.293	123666	0.558
Mo	98	1904.710	ug/L	1.013	5140123	23.298
Ag	107	19.869	ug/L	1.775	93812	0.425
Cd	111	19.676	ug/L	1.791	21535	0.098
Cd	114		ug/L		58789	0.266
In	115		ug/L		220640	220640.400
Sn	120	20.134	ug/L	1.789	88079	0.396
Sb	121	23.166	ug/L	0.881	83759	0.379
Sb	123		ug/L		63497	0.287
Ba	135		ug/L		20993	0.073
Ba	137	19.922	ug/L	2.271	36551	0.127
Ho	165		ug/L		102	0.000
Lu	175		ug/L		287431	287430.848
Tl	205	18.138	ug/L	2.921	209930	0.730
Pb	208	19.822	ug/L	1.088	257743	0.895
Th	232	20.065	ug/L	1.044	275492	0.957
U	238	20.116	ug/L	0.601	270927	0.942

Sample ID: QC Std 5

Report Date/Time: Friday, April 27, 2007 17:23:05

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	107.790				
Be	9	100.556				
B	11	107.567				
Na	23	98.248				
Mg	24	98.509				
Al	27	95.793				
P	31	96.405				
K	39	98.857				
Ca	43	91.854				
> Sc	45			93.9		
Ti	47	85.975				
V	51	101.932				
Cr	52	90.453				
Cr	53					
Mn	55	99.317				
Fe	57	100.987				
Co	59	97.477				
Ni	60	93.141				
Cu	63					
Cu	65	95.258				
Zn	66	98.246				
Zn	67					
Zn	68					
> Ge	74			96.3		
As	75	102.481				
Se	77					
Se	82	96.895				
Kr	83					
Sr	88	105.342				
Y	89					
Zr	90	101.182				
Mo	98	95.235				
Ag	107	99.346				
Cd	111	97.893				
Cd	114					
> In	115			95.0		
Sn	120	100.672				
Sb	121	113.005				
Sb	123					
Ba	135					
Ba	137	99.608				
Ho	165					
> Lu	175			99.8		
Tl	205	90.692				
Pb	208	99.110				
Th	232	100.327				
U	238	100.579				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, April 27, 2007 17:25:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 6.136

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.342	ug/L	1.450	36038	0.039
Be	9	52.256	ug/L	3.392	14334	0.015
B	11	103.105	ug/L	4.004	23719	0.025
Na	23	5353.486	ug/L	2.459	6737844	7.229
Mg	24	5250.084	ug/L	5.656	10543082	11.326
Al	27	4664.932	ug/L	4.533	15205307	16.343
P	31	5424.559	ug/L	3.016	1043638	1.115
K	39	5170.160	ug/L	7.905	27376323	28.382
Ca	43	4867.540	ug/L	4.102	55201	0.059
> Sc	45		ug/L		930944	930943.981
Ti	47	49.415	ug/L	2.659	25343	0.027
V	51	50.244	ug/L	2.208	227867	0.252
Cr	52	49.947	ug/L	3.636	224279	0.239
Cr	53		ug/L		126528	0.015
Mn	55	49.807	ug/L	3.378	372406	0.399
Fe	57	5018.225	ug/L	2.446	764126	0.811
Co	59	49.919	ug/L	2.562	289683	0.311
Ni	60	50.052	ug/L	2.146	63115	0.068
Cu	63		ug/L		153332	0.165
Cu	65	49.077	ug/L	2.731	71989	0.077
Zn	66	52.231	ug/L	0.413	51453	0.135
Zn	67		ug/L		18481	0.019
Zn	68		ug/L		37005	0.094
> Ge	74		ug/L		378220	378220.253
As	75	47.599	ug/L	1.705	51974	0.132
Se	77		ug/L		8759	0.007
Se	82	53.565	ug/L	2.345	5223	0.014
Kr	83		ug/L		948	-0.000
Sr	88	51.756	ug/L	0.803	601249	2.586
Y	89		ug/L		103	0.000
Zr	90	50.646	ug/L	2.630	325083	1.396
Mo	98	52.920	ug/L	0.995	150508	0.647
Ag	107	51.957	ug/L	0.534	258378	1.112
Cd	111	52.004	ug/L	1.483	59937	0.258
Cd	114		ug/L		144123	0.620
> In	115		ug/L		232428	232428.080
Sn	120	50.370	ug/L	0.778	231081	0.991
Sb	121	50.435	ug/L	5.707	191871	0.825
Sb	123		ug/L		145677	0.626
Ba	135		ug/L		54316	0.185
Ba	137	50.435	ug/L	1.291	94235	0.321
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		293008	293007.671
Tl	205	50.462	ug/L	0.774	595087	2.030
Pb	208	52.352	ug/L	0.714	693217	2.364
Th	232	50.903	ug/L	0.944	711692	2.427
U	238	52.301	ug/L	0.269	718023	2.450

Sample ID: QC Std 6

Report Date/Time: Friday, April 27, 2007 17:27:50

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	104.684				
Be	9	104.513				
B	11	103.105				
Na	23	107.070				
Mg	24	105.002				
Al	27	92.375				
P	31	108.491				
K	39	103.403				
Ca	43	97.351				
> Sc	45		99.1			
Ti	47	98.830				
V	51	100.488				
Cr	52	99.894				
Cr	53					
Mn	55	99.613				
Fe	57	100.364				
Co	59	99.838				
Ni	60	100.103				
Cu	63					
Cu	65	98.153				
Zn	66	104.462				
Zn	67					
Zn	68					
> Ge	74		100.5			
As	75	95.199				
Se	77					
Se	82	107.131				
Kr	83					
Sr	88	103.513				
Y	89					
Zr	90	101.292				
Mo	98	105.841				
Ag	107	103.913				
Cd	111	104.009				
Cd	114					
> In	115		100.1			
Sn	120	100.739				
Sb	121	100.870				
Sb	123					
Ba	135					
Ba	137	100.869				
Ho	165					
> Lu	175		101.8			
Tl	205	100.924				
Pb	208	104.704				
Th	232	101.807				
U	238	104.601				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, April 27, 2007 17:29:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 7.137

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.004	ug/L	211.951	20	0.000
Be	9	0.002	ug/L	989.638	10	0.000
B	11	3.010	ug/L	32.712	1428	0.001
Na	23	3.695	ug/L	116.377	10338	0.005
Mg	24	0.675	ug/L	119.480	2334	0.001
Al	27	0.400	ug/L	68.716	4001	0.001
P	31	-1.549	ug/L	100.779	5943	-0.000
K	39	1.039	ug/L	1779.198	996308	0.006
Ca	43	0.762	ug/L	551.958	483	0.000
> Sc	45		ug/L		939826	939826.439
Ti	47	0.309	ug/L	22.170	366	0.000
V	51	0.574	ug/L	82.207	-4229	0.003
Cr	52	-0.029	ug/L	63.766	2168	-0.000
Cr	53		ug/L		105662	-0.009
Mn	55	-0.014	ug/L	61.974	1096	-0.000
Fe	57	1.061	ug/L	239.355	9338	0.000
Co	59	0.004	ug/L	69.005	146	0.000
Ni	60	-0.000	ug/L	473.546	61	-0.000
Cu	63		ug/L		186	-0.000
Cu	65	0.009	ug/L	78.738	111	0.000
Zn	66	0.032	ug/L	177.908	320	0.000
Zn	67		ug/L		11215	0.001
Zn	68		ug/L		1298	0.000
> Ge	74		ug/L		360487	360487.090
As	75	0.058	ug/L	452.401	1882	0.000
Se	77		ug/L		5315	-0.002
Se	82	0.173	ug/L	231.103	-24	0.000
Kr	83		ug/L		940	-0.000
Sr	88	0.003	ug/L	104.100	290	0.000
Y	89		ug/L		50	-0.000
Zr	90	0.579	ug/L	15.643	4171	0.016
Mo	98	0.706	ug/L	7.503	1987	0.009
Ag	107	0.004	ug/L	27.484	57	0.000
Cd	111	0.000	ug/L	4370.338	14	0.000
Cd	114		ug/L		55	0.000
> In	115		ug/L		223460	223460.459
Sn	120	0.114	ug/L	26.187	1180	0.002
Sb	121	1.317	ug/L	22.544	4978	0.022
Sb	123		ug/L		3855	0.017
Ba	135		ug/L		52	0.000
Ba	137	0.005	ug/L	113.795	76	0.000
Ho	165		ug/L		15	-0.000
> Lu	175		ug/L		279849	279848.769
Tl	205	0.172	ug/L	22.347	2133	0.007
Pb	208	0.002	ug/L	62.872	462	0.000
Th	232	0.332	ug/L	32.072	4898	0.016
U	238	0.021	ug/L	31.963	309	0.001

Sample ID: QC Std 7

Report Date/Time: Friday, April 27, 2007 17:32:36

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		100.1			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		95.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		96.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.2			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits	Message
QC Std 7	Mo	98CCB	is out of limts (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Friday, April 27, 2007 17:34:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 10.138

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	970.280	ug/L	6.773	665004	0.717
Be	9	965.285	ug/L	7.017	263557	0.284
B	11	1.002	ug/L	25.104	968	0.000
Na	23	48716.844	ug/L	5.301	61107147	65.788
Mg	24	52663.040	ug/L	14.125	105019401	113.606
Al	27	44484.904	ug/L	14.137	144394133	155.846
P	31	23998.891	ug/L	5.651	4580505	4.933
K	39	47456.238	ug/L	8.617	242348116	260.516
Ca	43	45773.446	ug/L	6.392	513290	0.553
> Sc	45		ug/L		929260	929259.704
Ti	47	34.693	ug/L	5.122	17798	0.019
V	51	820.674	ug/L	5.768	3812696	4.119
Cr	52	883.321	ug/L	5.408	3915553	4.220
Cr	53		ug/L		591004	0.516
Mn	55	862.931	ug/L	4.975	6412256	6.913
Fe	57	49421.449	ug/L	5.622	7418166	7.991
Co	59	862.789	ug/L	5.311	4987882	5.378
Ni	60	896.474	ug/L	5.689	1125270	1.214
Cu	63		ug/L		2593447	2.795
Cu	65	867.315	ug/L	5.259	1266373	1.365
Zn	66	2282.260	ug/L	0.526	2168033	5.909
Zn	67		ug/L		363681	0.961
Zn	68		ug/L		1550039	4.222
> Ge	74		ug/L		366849	366849.285
As	75	909.564	ug/L	0.342	929643	2.529
Se	77		ug/L		39620	0.091
Se	82	485.308	ug/L	0.424	46224	0.126
Kr	83		ug/L		1006	0.000
Sr	88	965.868	ug/L	1.279	10895706	48.252
Y	89		ug/L		984	0.004
Zr	90	471.487	ug/L	2.416	2935129	12.997
Mo	98	960.771	ug/L	2.035	2653567	11.752
Ag	107	239.420	ug/L	0.410	1156655	5.122
Cd	111	953.812	ug/L	0.690	1067842	4.729
Cd	114		ug/L		2481786	10.991
> In	115		ug/L		225823	225822.876
Sn	120	938.012	ug/L	2.729	4168298	18.458
Sb	121	246.005	ug/L	4.367	908553	4.023
Sb	123		ug/L		692395	3.066
Ba	135		ug/L		2385940	8.227
Ba	137	2234.527	ug/L	2.805	4129187	14.239
Ho	165		ug/L		67	0.000
> Lu	175		ug/L		290033	290032.625
Tl	205	448.171	ug/L	1.423	5229550	18.032
Pb	208	4653.067	ug/L	1.969	60941856	210.145
Th	232	2380.579	ug/L	1.813	32920454	113.515
U	238	4755.934	ug/L	1.448	64621439	222.828

Sample ID: QC Std 10

Report Date/Time: Friday, April 27, 2007 17:37:22

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	97.028				
Be	9	96.528				
B	11					
Na	23	97.434				
Mg	24	105.326				
Al	27	88.970				
P	31	95.996				
K	39	94.912				
Ca	43	91.547				
> Sc	45		99.0			
Ti	47					
V	51	82.067				
Cr	52	88.332				
Cr	53					
Mn	55	86.293				
Fe	57	98.843				
Co	59	86.279				
Ni	60	89.647				
Cu	63					
Cu	65	86.731				
Zn	66	91.290				
Zn	67					
Zn	68					
> Ge	74		97.5			
As	75	90.956				
Se	77					
Se	82	97.062				
Kr	83					
Sr	88	96.587				
Y	89					
Zr	90	94.297				
Mo	98	96.077				
Ag	107	95.768				
Cd	111	95.381				
Cd	114					
> In	115		97.3			
Sn	120	93.801				
Sb	121	98.402				
Sb	123					
Ba	135					
Ba	137	89.381				
Ho	165					
> Lu	175		100.7			
Tl	205	89.634				
Pb	208	93.061				
Th	232	95.223				
U	238	95.119				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	Al	27	LRS is out of limits (+/- 10%)
QC Std 10	V	51	LRS is out of limits (+/- 10%)
QC Std 10	Cr	52	LRS is out of limits (+/- 10%)
QC Std 10	Mn	55	LRS is out of limits (+/- 10%)
QC Std 10	Co	59	LRS is out of limits (+/- 10%)
QC Std 10	Ni	60	LRS is out of limits (+/- 10%)
QC Std 10	Cu	65	LRS is out of limits (+/- 10%)

QC Std 10	Ba	137LRS is out of limits (+/- 10%)
QC Std 10	TI	205LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Friday, April 27, 2007 17:39:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 11.139

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	50.497	ug/L	1.891	35884	0.037
Be	9	49.698	ug/L	0.970	14077	0.015
B	11	98.036	ug/L	6.178	23304	0.023
Na	23	5632.925	ug/L	17.195	7291194	7.607
Mg	24	5643.018	ug/L	12.917	11678017	12.173
Al	27	4551.652	ug/L	3.695	15332872	15.946
P	31	5255.612	ug/L	3.969	1043613	1.080
K	39	5277.212	ug/L	3.905	28832346	28.970
Ca	43	4691.342	ug/L	3.166	54937	0.057
> Sc	45		ug/L		960992	960992.455
Ti	47	46.407	ug/L	3.722	24573	0.025
V	51	47.836	ug/L	3.457	223523	0.240
Cr	52	48.250	ug/L	4.159	223667	0.231
Cr	53		ug/L		124468	0.008
Mn	55	47.705	ug/L	3.608	368180	0.382
Fe	57	4798.101	ug/L	3.217	754392	0.776
Co	59	48.177	ug/L	3.539	288510	0.300
Ni	60	47.998	ug/L	3.392	62458	0.065
Cu	63		ug/L		151918	0.158
[Cu	65	47.222	ug/L	3.734	71483	0.074
[Zn	66	52.065	ug/L	1.669	50335	0.135
| Zn	67		ug/L		18306	0.019
| Zn	68		ug/L		36851	0.096
> Ge	74		ug/L		371213	371213.052
| As	75	48.998	ug/L	0.660	52451	0.136
| Se	77		ug/L		8462	0.006
| Se	82	54.205	ug/L	0.728	5188	0.014
[Kr	83		ug/L		995	-0.000
[Sr	88	52.149	ug/L	0.764	592378	2.605
| Y	89		ug/L		102	0.000
| Zr	90	52.341	ug/L	0.894	328531	1.443
| Mo	98	52.447	ug/L	0.784	145861	0.642
| Ag	107	51.911	ug/L	1.091	252437	1.111
| Cd	111	51.779	ug/L	0.686	58359	0.257
| Cd	114		ug/L		141311	0.622
> In	115		ug/L		227283	227282.631
| Sn	120	51.457	ug/L	1.034	230827	1.013
| Sb	121	56.248	ug/L	1.986	209265	0.920
[Sb	123		ug/L		159507	0.701
[Ba	135		ug/L		53425	0.186
| Ba	137	50.809	ug/L	1.751	93165	0.324
| Ho	165		ug/L		21	0.000
> Lu	175		ug/L		287579	287579.163
| Tl	205	50.396	ug/L	0.812	583250	2.028
| Pb	208	52.164	ug/L	1.621	677815	2.356
| Th	232	52.957	ug/L	1.171	726596	2.525
[U	238	52.327	ug/L	1.103	705002	2.452

Sample ID: QC Std 11

Report Date/Time: Friday, April 27, 2007 17:42:04

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	100.994				
Be	9	99.396				
B	11	98.036				
Na	23	112.658				
Mg	24	112.860				
Al	27	90.132				
P	31	105.112				
K	39	105.544				
Ca	43	93.827				
> Sc	45		102.3			
Ti	47	92.815				
V	51	95.672				
Cr	52	96.499				
Cr	53					
Mn	55	95.410				
Fe	57	95.962				
Co	59	96.354				
Ni	60	95.997				
Cu	63					
Cu	65	94.444				
Zn	66	104.130				
Zn	67					
Zn	68					
> Ge	74		98.6			
As	75	97.995				
Se	77					
Se	82	108.410				
Kr	83					
Sr	88	104.299				
Y	89					
Zr	90	104.682				
Mo	98	104.894				
Ag	107	103.821				
Cd	111	103.559				
Cd	114					
> In	115		97.9			
Sn	120	102.914				
Sb	121	112.495				
Sb	123					
Ba	135					
Ba	137	101.618				
Ho	165					
> Lu	175		99.9			
Tl	205	100.791				
Pb	208	104.327				
Th	232	105.915				
U	238	104.655				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	Na	23	CCV is out of limits (+/- 10%)
QC Std 11	Mg	24	CCV is out of limits (+/- 10%)
QC Std 11	Sb	121	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Friday, April 27, 2007 17:44:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 12.140

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.042	ug/L	21.877	49	0.000
Be	9	0.002	ug/L	383.028	10	0.000
B	11	2.657	ug/L	32.758	1416	0.001
Na	23	-0.452	ug/L	122.668	5334	-0.001
Mg	24	-0.344	ug/L	75.307	333	-0.001
Al	27	0.366	ug/L	286.750	4001	0.001
P	31	-3.376	ug/L	25.663	5867	-0.001
K	39	-23.143	ug/L	69.591	915159	-0.127
Ca	43	-2.275	ug/L	201.858	470	-0.000
> Sc	45		ug/L		986086	986085.738
Ti	47	-0.028	ug/L	53.581	204	-0.000
V	51	0.243	ug/L	121.301	-6000	0.001
Cr	52	-0.056	ug/L	36.621	2148	-0.000
Cr	53		ug/L		104051	-0.016
Mn	55	0.010	ug/L	111.237	1335	0.000
Fe	57	-5.398	ug/L	62.963	8763	-0.001
Co	59	0.052	ug/L	13.951	446	0.000
Ni	60	0.024	ug/L	18.167	95	0.000
Cu	63		ug/L		219	0.000
Cu	65	0.016	ug/L	84.853	126	0.000
Zn	66	0.018	ug/L	62.283	307	0.000
Zn	67		ug/L		11199	0.001
Zn	68		ug/L		1300	0.000
> Ge	74		ug/L		360901	360901.332
As	75	0.952	ug/L	38.472	2781	0.003
Se	77		ug/L		5025	-0.003
Se	82	0.304	ug/L	157.787	-11	0.000
Kr	83		ug/L		964	-0.000
Sr	88	0.014	ug/L	2.575	411	0.001
Y	89		ug/L		52	-0.000
Zr	90	0.801	ug/L	15.097	5490	0.022
Mo	98	0.560	ug/L	8.778	1576	0.007
Ag	107	0.007	ug/L	20.622	69	0.000
Cd	111	0.008	ug/L	135.194	23	0.000
Cd	114		ug/L		56	0.000
> In	115		ug/L		221721	221720.930
Sn	120	0.526	ug/L	14.306	2969	0.010
Sb	121	3.172	ug/L	15.050	11659	0.052
Sb	123		ug/L		9092	0.040
Ba	135		ug/L		107	0.000
Ba	137	0.061	ug/L	10.029	173	0.000
Ho	165		ug/L		14	-0.000
> Lu	175		ug/L		275476	275475.696
Tl	205	0.224	ug/L	22.391	2672	0.009
Pb	208	0.024	ug/L	14.761	734	0.001
Th	232	0.935	ug/L	20.003	12739	0.045
U	238	0.161	ug/L	11.875	2107	0.008

Sample ID: QC Std 12

Report Date/Time: Friday, April 27, 2007 17:46:50

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		105.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		95.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		95.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		95.7			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits	Message
QC Std 12	Mo	98CCB	is out of limits (+/- PQL)
QC Std 12	Sb	121CCB	is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, April 27, 2007 18:27:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 6.149

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	47.631	ug/L	1.359	36393	0.035
Be	9	46.922	ug/L	0.762	14287	0.014
B	11	96.381	ug/L	1.220	24668	0.023
Na	23	4899.525	ug/L	11.043	6839834	6.616
Mg	24	5380.559	ug/L	9.808	11987760	11.607
Al	27	4157.534	ug/L	3.521	15050227	14.565
P	31	4962.271	ug/L	1.385	1060166	1.020
K	39	4514.096	ug/L	6.999	26671464	24.781
Ca	43	4496.392	ug/L	2.062	56640	0.054
> Sc	45		ug/L		1032814	1032814.248
Ti	47	44.157	ug/L	2.271	25155	0.024
V	51	44.937	ug/L	1.133	225365	0.226
Cr	52	45.676	ug/L	1.494	227881	0.218
Cr	53		ug/L		155235	0.029
Mn	55	45.886	ug/L	2.167	380884	0.368
Fe	57	4565.792	ug/L	3.082	772344	0.738
Co	59	45.599	ug/L	1.717	293667	0.284
Ni	60	45.703	ug/L	0.648	63963	0.062
Cu	63		ug/L		153084	0.148
Cu	65	44.575	ug/L	2.086	72571	0.070
Zn	66	51.991	ug/L	0.639	51643	0.135
Zn	67		ug/L		22388	0.028
Zn	68		ug/L		37879	0.096
> Ge	74		ug/L		381363	381362.887
As	75	47.270	ug/L	2.295	52053	0.131
Se	77		ug/L		10314	0.010
Se	82	52.855	ug/L	1.257	5195	0.014
Kr	83		ug/L		994	-0.000
Sr	88	51.913	ug/L	1.267	603165	2.593
Y	89		ug/L		115	0.000
Zr	90	49.912	ug/L	3.678	320426	1.376
Mo	98	50.930	ug/L	1.872	144876	0.623
Ag	107	52.132	ug/L	0.594	259312	1.115
Cd	111	51.584	ug/L	0.887	59469	0.256
Cd	114		ug/L		144147	0.620
> In	115		ug/L		232487	232487.059
Sn	120	50.410	ug/L	0.978	231315	0.992
Sb	121	50.247	ug/L	6.528	191166	0.822
Sb	123		ug/L		144686	0.622
Ba	135		ug/L		54228	0.184
Ba	137	50.674	ug/L	1.184	95035	0.323
Ho	165		ug/L		17	-0.000
> Lu	175		ug/L		294111	294110.878
Tl	205	50.000	ug/L	0.676	591839	2.012
Pb	208	52.061	ug/L	1.530	691893	2.351
Th	232	50.383	ug/L	1.522	707039	2.402
U	238	51.397	ug/L	0.867	708241	2.408

Sample ID: QC Std 6

Report Date/Time: Friday, April 27, 2007 18:29:49

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	95.262				
Be	9	93.845				
B	11	96.381				
Na	23	97.991				
Mg	24	107.611				
Al	27	82.327				
P	31	99.245				
K	39	90.282				
Ca	43	89.928				
> Sc	45		110.0			
Ti	47	88.314				
V	51	89.875				
Cr	52	91.352				
Cr	53					
Mn	55	91.772				
Fe	57	91.316				
Co	59	91.198				
Ni	60	91.406				
Cu	63					
Cu	65	89.151				
Zn	66	103.982				
Zn	67					
Zn	68					
> Ge	74		101.3			
As	75	94.540				
Se	77					
Se	82	105.709				
Kr	83					
Sr	88	103.827				
Y	89					
Zr	90	99.824				
Mo	98	101.861				
Ag	107	104.264				
Cd	111	103.168				
Cd	114					
> In	115		100.1			
Sn	120	100.820				
Sb	121	100.494				
Sb	123					
Ba	135					
Ba	137	101.348				
Ho	165					
> Lu	175		102.1			
Tl	205	99.999				
Pb	208	104.121				
Th	232	100.767				
U	238	102.794				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Al	27	27CCV is out of limits (+/- 10%)
QC Std 6	Ca	43	43CCV is out of limits (+/- 10%)
QC Std 6	Ti	47	47CCV is out of limits (+/- 10%)
QC Std 6	V	51	51CCV is out of limits (+/- 10%)
QC Std 6	Cu	65	65CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, April 27, 2007 18:31:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 7.150

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	0.031 ug/L	56.979	45	0.000
|	Be	9	0.009 ug/L	125.829	13	0.000
|	B	11	3.478 ug/L	29.140	1723	0.001
|	Na	23	-0.464 ug/L	342.032	5668	-0.001
|	Mg	24	0.098 ug/L	281.185	1333	0.000
|	Al	27	0.000 ug/L	1279396.707	3000	0.000
|	P	31	-6.158 ug/L	15.818	5671	-0.001
|	K	39	-26.983 ug/L	36.774	956671	-0.148
|	Ca	43	-1.454 ug/L	321.063	515	-0.000
>	Sc	45	ug/L		1054403	1054403.367
|	Ti	47	-0.048 ug/L	84.173	206	-0.000
|	V	51	-0.276 ug/L	177.561	-9133	-0.001
|	Cr	52	-0.022 ug/L	193.292	2475	-0.000
|	Cr	53	ug/L		116810	-0.010
|	Mn	55	0.003 ug/L	284.987	1374	0.000
|	Fe	57	-6.578 ug/L	43.990	9172	-0.001
|	Co	59	0.010 ug/L	11.487	204	0.000
|	Ni	60	0.007 ug/L	61.723	78	0.000
|	Cu	63	ug/L		215	-0.000
|	Cu	65	-0.003 ug/L	307.689	105	-0.000
|	Zn	66	0.002 ug/L	595.677	291	0.000
|	Zn	67	ug/L		12723	0.005
|	Zn	68	ug/L		1397	0.000
>	Ge	74	ug/L		360026	360025.966
|	As	75	0.106 ug/L	32.035	1925	0.000
|	Se	77	ug/L		6135	0.000
|	Se	82	0.357 ug/L	36.756	-7	0.000
|	Kr	83	ug/L		947	-0.000
|	Sr	88	0.017 ug/L	9.808	443	0.001
|	Y	89	ug/L		68	0.000
|	Zr	90	0.599 ug/L	18.538	4238	0.017
|	Mo	98	0.170 ug/L	17.761	516	0.002
|	Ag	107	0.006 ug/L	39.949	65	0.000
|	Cd	111	0.018 ug/L	24.814	33	0.000
|	Cd	114	ug/L		50	0.000
>	In	115	ug/L		220951	220951.490
|	Sn	120	0.153 ug/L	24.444	1335	0.003
|	Sb	121	1.356 ug/L	24.205	5054	0.022
|	Sb	123	ug/L		3898	0.017
|	Ba	135	ug/L		49	0.000
|	Ba	137	0.022 ug/L	23.285	105	0.000
|	Ho	165	ug/L		14	-0.000
>	Lu	175	ug/L		276368	276367.599
|	Tl	205	0.170 ug/L	26.393	2085	0.007
|	Pb	208	0.004 ug/L	41.624	486	0.000
|	Th	232	0.546 ug/L	29.375	7658	0.026
	U	238	0.027 ug/L	22.965	381	0.001

Sample ID: QC Std 7

Report Date/Time: Friday, April 27, 2007 18:34:35

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		112.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		95.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		95.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		96.0			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201320019
 Sample Date/Time: Friday, April 27, 2007 18:36:36
 Sample Type:
 Sample Description: HLA1 6020 MB
 Number of Replicates: 3
 Batch ID: 627498|1|prb
 Method File: c:\elandata\Method\6020.mth
 Dataset File: C:\elandata\Dataset\070427\1201320019.151

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.095	ug/L	11.610	91	0.000
Be	9	0.002	ug/L	120.355	11	0.000
B	11	2.059	ug/L	4.101	1325	0.000
Na	23	2.773	ug/L	50.473	10004	0.004
Mg	24	1.319	ug/L	33.498	4001	0.003
Al	27	3.190	ug/L	38.919	14341	0.011
P	31	-10.764	ug/L	6.024	4531	-0.002
K	39	-8.417	ug/L	82.936	1033139	-0.046
Ca	43	25.975	ug/L	12.653	837	0.000
> Sc	45		ug/L		1021670	1021669.814
Ti	47	0.178	ug/L	16.642	326	0.000
V	51	-3.202	ug/L	33.873	-24002	-0.016
Cr	52	0.820	ug/L	3.692	6503	0.004
Cr	53		ug/L		220989	0.095
Mn	55	0.125	ug/L	3.014	2330	0.001
Fe	57	5.605	ug/L	29.709	10907	0.001
Co	59	0.021	ug/L	6.938	268	0.000
Ni	60	0.044	ug/L	18.244	127	0.000
Cu	63		ug/L		273	0.000
Cu	65	0.018	ug/L	21.987	135	0.000
Zn	66	1.425	ug/L	1.710	1629	0.004
Zn	67		ug/L		30639	0.054
Zn	68		ug/L		3303	0.006
> Ge	74		ug/L		362416	362415.856
As	75	-0.296	ug/L	296.322	1543	-0.001
Se	77		ug/L		15710	0.027
Se	82	0.357	ug/L	165.536	-7	0.000
Kr	83		ug/L		969	-0.000
Sr	88	0.076	ug/L	1.372	1080	0.004
Y	89		ug/L		73	0.000
Zr	90	0.573	ug/L	18.384	4026	0.016
Mo	98	0.065	ug/L	8.169	231	0.001
Ag	107	0.008	ug/L	32.260	74	0.000
Cd	111	0.018	ug/L	24.535	33	0.000
Cd	114		ug/L		59	0.000
> In	115		ug/L		217990	217989.743
Sn	120	0.251	ug/L	3.196	1740	0.005
Sb	121	0.485	ug/L	24.180	1889	0.008
Sb	123		ug/L		1718	0.007
Ba	135		ug/L		76	0.000
Ba	137	0.044	ug/L	25.889	142	0.000
Ho	165		ug/L		12	-0.000
> Lu	175		ug/L		274241	274240.592
Tl	205	0.059	ug/L	2.778	845	0.002
Pb	208	0.020	ug/L	4.498	675	0.001
Th	232	0.149	ug/L	9.418	2420	0.007
U	238	0.028	ug/L	8.467	395	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		108.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		96.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		93.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		95.2			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201320020

Sample Date/Time: Friday, April 27, 2007 18:41:23

Sample Type:

Sample Description: HLA1 6020 LCS

Number of Replicates: 3

Batch ID: 627498|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\1201320020.152

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	48.598	ug/L	2.914	35948	0.036
Be	9	48.506	ug/L	1.924	14297	0.014
B	11	101.444	ug/L	3.847	25088	0.024
Na	23	2017.722	ug/L	14.008	2725518	2.725
Mg	24	2109.536	ug/L	6.955	4556295	4.551
Al	27	1890.307	ug/L	3.237	6623401	6.622
P	31	2005.540	ug/L	3.905	418649	0.412
K	39	1970.931	ug/L	9.758	11866846	10.820
Ca	43	1848.534	ug/L	1.654	22843	0.022
> Sc	45		ug/L		1000064	1000064.421
Ti	47	40.106	ug/L	2.015	22141	0.022
V	51	40.880	ug/L	3.270	197772	0.205
Cr	52	46.525	ug/L	2.605	224648	0.222
Cr	53		ug/L		252606	0.131
Mn	55	45.488	ug/L	1.932	365578	0.364
Fe	57	1857.708	ug/L	3.652	309987	0.300
Co	59	45.744	ug/L	3.433	285165	0.285
Ni	60	45.345	ug/L	1.830	61435	0.061
Cu	63		ug/L		151250	0.151
Cu	65	45.176	ug/L	2.428	71202	0.071
Zn	66	60.030	ug/L	1.554	58446	0.155
Zn	67		ug/L		40818	0.079
Zn	68		ug/L		43447	0.113
> Ge	74		ug/L		374126	374125.591
As	75	49.593	ug/L	2.018	53482	0.138
Se	77		ug/L		19193	0.035
Se	82	51.440	ug/L	1.376	4959	0.013
Kr	83		ug/L		1018	0.000
Sr	88	51.882	ug/L	0.295	577273	2.592
Y	89		ug/L		110	0.000
Zr	90	49.443	ug/L	1.828	304062	1.363
Mo	98	51.400	ug/L	0.555	140023	0.629
Ag	107	52.287	ug/L	0.656	249077	1.119
Cd	111	51.762	ug/L	1.638	57140	0.257
Cd	114		ug/L		136596	0.613
> In	115		ug/L		222632	222632.259
Sn	120	50.241	ug/L	0.692	220788	0.989
Sb	121	56.078	ug/L	0.852	204351	0.917
Sb	123		ug/L		154544	0.693
Ba	135		ug/L		52131	0.184
Ba	137	50.038	ug/L	1.508	90337	0.319
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		283101	283100.795
Tl	205	48.154	ug/L	2.157	548733	1.937
Pb	208	51.596	ug/L	1.030	660116	2.330
Th	232	49.850	ug/L	1.645	673454	2.377
U	238	51.012	ug/L	1.767	676684	2.390

Sample ID: 1201320020

Report Date/Time: Friday, April 27, 2007 18:44:08

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		106.5			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		95.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.3			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 184428008

Sample Date/Time: Friday, April 27, 2007 18:46:10

Sample Type:

Sample Description: HLA1 6020

Number of Replicates: 3

Batch ID: 627498|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\184428008.153

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	1.025	ug/L	4.606	805	0.001
Be	9	0.042	ug/L	18.444	23	0.000
B	11	21.536	ug/L	2.656	6183	0.005
Na	23	71974.170	ug/L	13.465	100965672	97.195
Mg	24	3899.348	ug/L	9.160	8736642	8.412
Al	27	160.455	ug/L	13.157	586258	0.562
P	31	33.668	ug/L	4.564	14071	0.007
K	39	914.966	ug/L	6.157	6302574	5.023
Ca	43	12573.112	ug/L	0.299	158164	0.152
> Sc	45		ug/L		1037344	1037343.623
Ti	47	4.554	ug/L	6.736	2815	0.002
V	51	-3.077	ug/L	7.800	-23623	-0.015
Cr	52	1.293	ug/L	10.107	8948	0.006
Cr	53		ug/L		234905	0.105
Mn	55	38.369	ug/L	0.897	320139	0.307
Fe	57	243.427	ug/L	1.612	50963	0.039
Co	59	0.200	ug/L	1.680	1428	0.001
Ni	60	0.806	ug/L	5.917	1199	0.001
Cu	63		ug/L		4628	0.004
Cu	65	1.042	ug/L	3.325	1808	0.002
Zn	66	4.164	ug/L	1.310	4315	0.011
Zn	67		ug/L		34273	0.062
Zn	68		ug/L		6387	0.014
> Ge	74		ug/L		372401	372401.099
As	75	-0.404	ug/L	18.801	1464	-0.001
Se	77		ug/L		17565	0.031
Se	82	-1.077	ug/L	129.235	-146	-0.000
Kr	83		ug/L		1104	0.000
Sr	88	72.637	ug/L	0.843	795116	3.629
Y	89		ug/L		7436	0.034
Zr	90	1.096	ug/L	25.171	7189	0.030
Mo	98	0.140	ug/L	13.025	432	0.002
Ag	107	0.018	ug/L	9.394	120	0.000
Cd	111	0.053	ug/L	16.162	71	0.000
Cd	114		ug/L		192	0.001
> In	115		ug/L		219071	219070.772
Sn	120	0.260	ug/L	4.311	1786	0.005
Sb	121	0.196	ug/L	7.308	865	0.003
Sb	123		ug/L		878	0.003
Ba	135		ug/L		66239	0.237
Ba	137	64.981	ug/L	0.814	115927	0.414
Ho	165		ug/L		388	0.001
> Lu	175		ug/L		279801	279800.514
Tl	205	0.487	ug/L	23.986	5662	0.020
Pb	208	0.369	ug/L	2.200	5099	0.017
Th	232	0.434	ug/L	23.435	6255	0.021
U	238	0.074	ug/L	3.890	1001	0.003

Sample ID: 184428008

Report Date/Time: Friday, April 27, 2007 18:48:56

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		110.5			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		98.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.2			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits	Message
	Na	23	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: 184428009

Sample Date/Time: Friday, April 27, 2007 18:50:57

Sample Type:

Sample Description: HLA1 6020

Number of Replicates: 3

Batch ID: 627498|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\184428009.154

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	1.568	ug/L	1.364	1286	0.001
Be	9	0.246	ug/L	8.970	90	0.000
B	11	7.873	ug/L	1.339	2936	0.002
Na	23	129238.152	ug/L	9.418	190126554	174.525
Mg	24	5209.470	ug/L	0.653	12273859	11.238
Al	27	324.082	ug/L	11.679	1239822	1.135
P	31	-6.484	ug/L	12.857	5801	-0.001
K	39	325.476	ug/L	12.670	3099837	1.787
Ca	43	12210.857	ug/L	1.757	161631	0.148
> Sc	45		ug/L		1091919	1091918.530
Ti	47	1.410	ug/L	4.340	1082	0.001
V	51	-3.004	ug/L	28.397	-24509	-0.015
Cr	52	0.923	ug/L	8.354	7478	0.004
Cr	53		ug/L		242452	0.101
Mn	55	1611.372	ug/L	2.109	14088617	12.908
Fe	57	83.913	ug/L	4.240	25471	0.014
Co	59	9.513	ug/L	3.269	64841	0.059
Ni	60	9.827	ug/L	2.038	14590	0.013
Cu	63		ug/L		4883	0.004
Cu	65	0.747	ug/L	2.372	1396	0.001
Zn	66	8.965	ug/L	2.175	9114	0.023
Zn	67		ug/L		37375	0.068
Zn	68		ug/L		12499	0.029
> Ge	74		ug/L		379506	379506.481
As	75	-1.822	ug/L	30.496	1	-0.005
Se	77		ug/L		18993	0.033
Se	82	-0.094	ug/L	541.308	-51	-0.000
Kr	83		ug/L		1016	-0.000
Sr	88	178.061	ug/L	0.390	1982888	8.895
Y	89		ug/L		76662	0.344
Zr	90	0.515	ug/L	13.434	3765	0.014
Mo	98	0.060	ug/L	22.793	221	0.001
Ag	107	0.008	ug/L	9.715	73	0.000
Cd	111	0.287	ug/L	7.271	331	0.001
Cd	114		ug/L		812	0.003
> In	115		ug/L		222893	222892.574
Sn	120	0.198	ug/L	4.195	1545	0.004
Sb	121	0.114	ug/L	4.967	582	0.002
Sb	123		ug/L		713	0.002
Ba	135		ug/L		185729	0.649
Ba	137	177.007	ug/L	0.931	322824	1.128
Ho	165		ug/L		2867	0.010
> Lu	175		ug/L		286188	286187.941
Tl	205	0.166	ug/L	6.163	2113	0.007
Pb	208	0.156	ug/L	4.156	2470	0.007
Th	232	0.112	ug/L	9.046	2022	0.005
U	238	0.032	ug/L	8.115	459	0.001

Sample ID: 184428009

Report Date/Time: Friday, April 27, 2007 18:53:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		116.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		100.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		96.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.4			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Na	23	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, April 27, 2007 19:24:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 6.161

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	41.824	ug/L	2.540	33909	0.031
Be	9	42.422	ug/L	1.328	13707	0.012
B	11	86.226	ug/L	4.359	23508	0.021
Na	23	4611.885	ug/L	3.381	6831154	6.228
Mg	24	4859.990	ug/L	2.873	11491226	10.484
Al	27	3966.800	ug/L	5.049	15230319	13.897
P	31	4677.528	ug/L	0.975	1060889	0.961
K	39	4299.593	ug/L	7.103	27023894	23.603
Ca	43	4211.533	ug/L	1.328	56336	0.051
> Sc	45		ug/L		1095859	1095859.358
Ti	47	41.922	ug/L	0.533	25357	0.023
V	51	41.884	ug/L	2.781	222353	0.210
Cr	52	41.802	ug/L	1.610	221533	0.200
Cr	53		ug/L		139887	0.006
Mn	55	41.658	ug/L	0.726	367090	0.334
Fe	57	4153.090	ug/L	1.091	746550	0.671
Co	59	41.958	ug/L	1.907	286758	0.262
Ni	60	41.774	ug/L	1.122	62043	0.057
Cu	63		ug/L		151524	0.138
Cu	65	41.529	ug/L	0.655	71758	0.065
Zn	66	52.785	ug/L	0.664	50553	0.137
Zn	67		ug/L		20952	0.027
Zn	68		ug/L		36978	0.097
> Ge	74		ug/L		367715	367715.480
As	75	48.249	ug/L	0.656	51190	0.134
Se	77		ug/L		9100	0.008
Se	82	53.529	ug/L	1.784	5074	0.014
Kr	83		ug/L		990	-0.000
Sr	88	51.787	ug/L	1.303	594475	2.587
Y	89		ug/L		114	0.000
Zr	90	49.862	ug/L	1.944	316313	1.374
Mo	98	50.763	ug/L	2.231	142653	0.621
Ag	107	51.867	ug/L	0.815	254876	1.110
Cd	111	51.319	ug/L	1.442	58446	0.254
Cd	114		ug/L		141828	0.617
> In	115		ug/L		229681	229681.409
Sn	120	50.204	ug/L	0.770	227594	0.988
Sb	121	49.795	ug/L	4.067	187268	0.814
Sb	123		ug/L		141700	0.616
Ba	135		ug/L		53032	0.183
Ba	137	49.563	ug/L	1.282	91583	0.316
Ho	165		ug/L		20	0.000
> Lu	175		ug/L		289768	289767.980
Tl	205	50.158	ug/L	1.389	584957	2.018
Pb	208	52.420	ug/L	0.988	686415	2.367
Th	232	50.450	ug/L	2.171	697514	2.406
U	238	51.375	ug/L	1.638	697466	2.407

Sample ID: QC Std 6

Report Date/Time: Friday, April 27, 2007 19:27:16

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	83.648				
Be	9	84.844				
B	11	86.226				
Na	23	92.238				
Mg	24	97.200				
Al	27	78.550				
P	31	93.551				
K	39	85.992				
Ca	43	84.231				
> Sc	45		116.7			
Ti	47	83.844				
V	51	83.768				
Cr	52	83.605				
Cr	53					
Mn	55	83.316				
Fe	57	83.062				
Co	59	83.916				
Ni	60	83.548				
Cu	63					
Cu	65	83.057				
Zn	66	105.571				
Zn	67					
Zn	68					
> Ge	74		97.7			
As	75	96.498				
Se	77					
Se	82	107.059				
Kr	83					
Sr	88	103.574				
Y	89					
Zr	90	99.724				
Mo	98	101.526				
Ag	107	103.734				
Cd	111	102.639				
Cd	114					
> In	115		98.9			
Sn	120	100.408				
Sb	121	99.589				
Sb	123					
Ba	135					
Ba	137	99.126				
Ho	165					
> Lu	175		100.6			
Tl	205	100.316				
Pb	208	104.839				
Th	232	100.901				
U	238	102.749				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	Be	9	9CCV is out of limits (+/- 10%)
QC Std 6	B	11	11CCV is out of limits (+/- 10%)
QC Std 6	Al	27	27CCV is out of limits (+/- 10%)
QC Std 6	K	39	39CCV is out of limits (+/- 10%)
QC Std 6	Ca	43	43CCV is out of limits (+/- 10%)
QC Std 6	Ti	47	47CCV is out of limits (+/- 10%)

QC Std 6	V	51CCV is out of limits (+/- 10%)
QC Std 6	Cr	52CCV is out of limits (+/- 10%)
QC Std 6	Mn	55CCV is out of limits (+/- 10%)
QC Std 6	Fe	57CCV is out of limits (+/- 10%)
QC Std 6	Co	59CCV is out of limits (+/- 10%)
QC Std 6	Ni	60CCV is out of limits (+/- 10%)
QC Std 6	Cu	65CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, April 27, 2007 19:29:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 7.162

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.019	ug/L	12.211	35	0.000
Be	9	-0.014	ug/L	59.547	6	-0.000
B	11	2.430	ug/L	38.993	1459	0.001
Na	23	6.102	ug/L	44.221	15008	0.008
Mg	24	0.095	ug/L	279.134	1333	0.000
Al	27	-0.353	ug/L	119.053	1667	-0.001
P	31	-4.452	ug/L	8.458	6047	-0.001
K	39	-34.448	ug/L	17.291	915472	-0.189
Ca	43	-1.053	ug/L	219.244	519	-0.000
> Sc	45		ug/L		1054707	1054707.133
Ti	47	-0.090	ug/L	16.561	182	-0.000
V	51	0.370	ug/L	58.552	-5783	0.002
Cr	52	-0.153	ug/L	7.628	1813	-0.001
Cr	53		ug/L		110827	-0.016
Mn	55	0.109	ug/L	7.358	2266	0.001
Fe	57	-7.235	ug/L	19.149	9071	-0.001
Co	59	0.011	ug/L	39.769	208	0.000
Ni	60	0.017	ug/L	8.412	93	0.000
Cu	63		ug/L		182	-0.000
Cu	65	-0.010	ug/L	78.970	93	-0.000
Zn	66	-0.011	ug/L	185.700	278	-0.000
Zn	67		ug/L		12715	0.005
Zn	68		ug/L		1425	0.000
> Ge	74		ug/L		357871	357871.411
As	75	0.479	ug/L	103.884	2282	0.001
Se	77		ug/L		5262	-0.002
Se	82	-0.099	ug/L	381.996	-49	-0.000
Kr	83		ug/L		950	-0.000
Sr	88	0.004	ug/L	22.232	298	0.000
Y	89		ug/L		70	0.000
Zr	90	0.572	ug/L	16.504	4082	0.016
Mo	98	0.150	ug/L	23.925	461	0.002
Ag	107	0.005	ug/L	9.696	61	0.000
Cd	111	0.008	ug/L	84.172	22	0.000
Cd	114		ug/L		47	0.000
> In	115		ug/L		221189	221188.579
Sn	120	0.141	ug/L	29.001	1284	0.003
Sb	121	1.305	ug/L	25.541	4879	0.021
Sb	123		ug/L		3757	0.016
Ba	135		ug/L		68	0.000
Ba	137	0.023	ug/L	23.834	106	0.000
Ho	165		ug/L		10	-0.000
> Lu	175		ug/L		278037	278036.985
Tl	205	0.181	ug/L	21.269	2211	0.007
Pb	208	0.000	ug/L	662.062	439	0.000
Th	232	0.410	ug/L	32.501	5905	0.020
U	238	0.024	ug/L	33.897	342	0.001

Sample ID: QC Std 7

Report Date/Time: Friday, April 27, 2007 19:32:03

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9997
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	0.9999
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		112.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		95.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		95.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		96.6			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, April 28, 2007 03:27:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\Blank.284

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	ug/L		588	
45	ug/L		1174809		

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Simple Linear	
Sc	45Simple Linear	

QC Calculated Values

	Analyte	Mass QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11				
Sc	45					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, April 28, 2007 03:29:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\Standard 1.285

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	20.000	ug/L	3.310	4451	0.003
	ug/L		1185004	1185003.978	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[	B		11								
Sc		45									

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, April 28, 2007 03:32:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\Standard 2.286

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	200.036	ug/L	0.529	39835	0.033
	ug/L		1182842	1182842.354	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[	B		11								
Sc		45									

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, April 28, 2007 03:34:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 1.287

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	107.549 ug/L	1.757	21914	0.018
45	ug/L		1195064	1195063.531	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11	107.549				
Sc	45		101.7				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, April 28, 2007 03:36:33

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 2.288

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	5.131	ug/L	9.089	1546	0.001
	ug/L		1144354	1144353.511	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[	B		11								
Sc		45				97.4					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, April 28, 2007 03:38:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 3.289

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	16.940 ug/L	3.416	3962	0.003
45	ug/L		1197003	1197002.755	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11	112.934				
Sc	45		101.9				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, April 28, 2007 03:40:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 4.290

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	7.571	ug/L	1.872	1976	0.001
	ug/L		1125051	1125050.777	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11	151.426				
Sc	45		95.8				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, April 28, 2007 03:43:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 5.291

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	28.594 ug/L	1.715	5762	0.005
45	ug/L		1098962	1098962.116	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11	114.375				
Sc	45		93.5				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, April 28, 2007 03:45:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 6.292

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	105.291	ug/L	1.658	21021	0.017
	ug/L		1170155	1170154.678	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11	105.291				
Sc	45		99.6				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, April 28, 2007 03:47:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 7.293

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	3.485	ug/L	4.081	1232	0.001
	ug/L		1141920	1141920.419	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11				
Sc	45		97.2			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201320019

Sample Date/Time: Saturday, April 28, 2007 03:49:50

Sample Type:

Sample Description: HLA1 6020 MB

Number of Replicates: 3

Batch ID: 627498|1|prb

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\1201320019.294

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	1.740	ug/L	8.442	920	0.000
	ug/L		1166301	1166301.484	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11				
Sc	45		99.3			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201320020

Sample Date/Time: Saturday, April 28, 2007 03:52:05

Sample Type:

Sample Description: HLA1 6020 LCS

Number of Replicates: 3

Batch ID: 627498|1|prb

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\1201320020.295

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	113.429	ug/L	0.747	22240	0.019
[> Sc 45		ug/L		1151573	1151573.389

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[	B		11								
Sc		45				98.0					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 184428008

Sample Date/Time: Saturday, April 28, 2007 03:54:20

Sample Type:

Sample Description: HLA1 6020

Number of Replicates: 3

Batch ID: 627498|1|prb

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\184428008.296

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	23.954	ug/L	1.317	5221	0.004
	ug/L		1167177	1167176.681	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[	B		11								
Sc		45				99.4					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 184428009

Sample Date/Time: Saturday, April 28, 2007 03:56:36

Sample Type:

Sample Description: HLAI 6020

Number of Replicates: 3

Batch ID: 627498|1|prb

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\184428009.297

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	9.501	ug/L	2.789	2408	0.002
	ug/L		1159789	1159788.646	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11				
Sc	45		98.7			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, April 28, 2007 04:07:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 6.302

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	101.691	ug/L	2.126	21589	0.017
	ug/L		1243050	1243049.898	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	B	11	101.691				
Sc	45		105.8				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, April 28, 2007 04:10:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\b only.mth

Dataset File: C:\elandata\Dataset\070427\QC Std 7.303

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B 11	3.267	ug/L	2.616	1311	0.001
	ug/L		1258119	1258119.490	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[	B		11								
Sc		45				107.1					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, April 30, 2007 10:34:46

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.4551

Tuning File: c:\elandata\Tuning\default2.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Number of Replicates: 5

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens. SD	Net Intens. RSD
Be	9.0		2673.5		2673.450	64.539	2.4
Mg	24.0		24996.1		24996.053	389.019	1.6
Co	58.9		66360.4		66360.433	1469.712	2.2
Rh	102.9		119747.1		119747.066	1732.040	1.4
In	114.9		151410.8		151410.751	2682.385	1.8
Pb	208.0		89950.4		89950.368	1576.759	1.8
[> Ba	137.9		133085.1		133085.132	3261.577	2.5
[Ba++	69.0		3407.4		0.026	0.000	1.5
[> Ce	139.9		166641.9		166641.932	2917.193	1.8
[CeO	155.9		3830.4		0.023	0.000	1.9
Bkgd	220.0		8.8		8.800	2.168	24.6

Current Optimization File Data

Current Value	Description
0.93	Nebulizer Gas Flow
7.50	Lens Voltage
1450.00	ICP RF Power
-1875.00	Analog Stage Voltage
1350.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	8.0	3275.4
Co	59	21	8.3	73111.9
In	115	21	9.5	184991.1

ICPMS#3 Instrument Tuning Report

File Name: 070430.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	606	2080	0.622
Be	9.0	8.9	2034	2080	0.662
Mg	24.0	24.0	5725	2140	0.701
Mg	25.0	25.0	5824	2030	0.641
Mg	26.0	26.1	6262	2160	0.637
Co	58.9	59.0	14168	2140	0.628
Rh	102.9	102.9	24873	2200	0.647
In	114.9	115.0	27797	2210	0.673
Ce	139.9	139.9	33873	2260	0.629
Pb	206.0	206.0	49943	2350	0.628
Pb	207.0	206.9	50226	2410	0.595
Pb	208.0	207.9	50419	2340	0.624
U	238.1	238.1	57776	2420	0.655

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, April 30, 2007 12:13:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\Blank.037

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	ug/L		32	
| Be	9	ug/L		8	
| B	11	ug/L		1164	
| Na	23	ug/L		7002	
| Mg	24	ug/L		3334	
| Al	27	ug/L		6335	
| P	31	ug/L		7116	
| K	39	ug/L		950971	
| Ca	43	ug/L		755	
> Sc	45	ug/L		1378541	
| Ti	47	ug/L		257	
| V	51	ug/L		-2826	
| Cr	52	ug/L		2654	
| Cr	53	ug/L		204863	
| Mn	55	ug/L		1867	
| Fe	57	ug/L		9122	
| Co	59	ug/L		70	
| Ni	60	ug/L		55	
| Cu	63	ug/L		171	
[Cu	65	ug/L		130	
[Zn	66	ug/L		439	
| Zn	67	ug/L		19996	
| Zn	68	ug/L		2195	
> Ge	74	ug/L		412078	
| As	75	ug/L		3432	
| Se	77	ug/L		9150	
| Se	82	ug/L		-1	
[Kr	83	ug/L		1130	
[Sr	88	ug/L		237	
| Y	89	ug/L		44	
| Zr	90	ug/L		1903	
| Mo	98	ug/L		177	
| Ag	107	ug/L		42	
| Cd	111	ug/L		27	
| Cd	114	ug/L		48	
> In	115	ug/L		239218	
| Sn	120	ug/L		907	
| Sb	121	ug/L		985	
[Sb	123	ug/L		778	
[Ba	135	ug/L		45	
| Ba	137	ug/L		68	
| Ho	165	ug/L		9	
> Lu	175	ug/L		340642	
| Tl	205	ug/L		379	
| Pb	208	ug/L		915	
| Th	232	ug/L		1372	
[U	238	ug/L		106	

Sample ID: Blank

Report Date/Time: Monday, April 30, 2007 12:15:56

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Simple Linear	
Be	9Simple Linear	
B	11Simple Linear	
Na	23Simple Linear	
Mg	24Simple Linear	
Al	27Simple Linear	
P	31Simple Linear	
K	39Simple Linear	
Ca	43Simple Linear	
Sc	45Simple Linear	
Ti	47Simple Linear	
V	51Simple Linear	
Cr	52Simple Linear	
Cr	53Simple Linear	
Mn	55Simple Linear	
Fe	57Simple Linear	
Co	59Simple Linear	
Ni	60Simple Linear	
Cu	63Simple Linear	
Cu	65Simple Linear	
Zn	66Simple Linear	
Zn	67Simple Linear	
Zn	68Simple Linear	
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Sr	88Simple Linear	
Y	89Simple Linear	
Zr	90Linear Thru Zero	
Mo	98Simple Linear	
Ag	107Simple Linear	
Cd	111Simple Linear	
Cd	114Simple Linear	
In	115Linear Thru Zero	
Sn	120Simple Linear	
Sb	121Simple Linear	
Sb	123Simple Linear	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	
Ho	165Simple Linear	
Lu	175Linear Thru Zero	
Tl	205Simple Linear	
Pb	208Simple Linear	
Th	232Linear Thru Zero	
U	238Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li		7				
Be		9				
B		11				
Na		23				
Mg		24				
Al		27				
P		31				
K		39				
Ca		43				
> Sc		45				
Ti		47				
V		51				
Cr		52				
Cr		53				
Mn		55				
Fe		57				
Co		59				
Ni		60				
Cu		63				
Cu		65				
Zn		66				
Zn		67				
Zn		68				
> Ge		74				
As		75				
Se		77				
Se		82				
Kr		83				
Sr		88				
Y		89				
Zr		90				
Mo		98				
Ag		107				
Cd		111				
Cd		114				
> In		115				
Sn		120				
Sb		121				
Sb		123				
Ba		135				
Ba		137				
Ho		165				
> Lu		175				
Tl		205				
Pb		208				
Th		232				
U		238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, April 30, 2007 12:17:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\Standard 1.038

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	2.412	9685	0.007
Be	9	10.000	ug/L	1.854	3293	0.002
B	11	20.000	ug/L	2.280	7308	0.004
Na	23	1000.000	ug/L	8.958	1686869	1.196
Mg	24	1000.000	ug/L	9.863	2309048	1.643
Al	27	1000.000	ug/L	12.095	3440434	2.447
P	31	1000.000	ug/L	1.808	218310	0.150
K	39	1000.000	ug/L	15.141	7155389	4.401
Ca	43	1000.000	ug/L	0.207	12138	0.008
> Sc	45		ug/L		1404545	1404544.878
Ti	47	10.000	ug/L	0.834	5709	0.004
V	51	10.000	ug/L	2.734	53639	0.040
Cr	52	10.000	ug/L	0.540	54453	0.037
Cr	53		ug/L		162465	-0.033
Mn	55	10.000	ug/L	0.909	91594	0.064
Fe	57	1000.000	ug/L	0.891	188502	0.128
Co	59	10.000	ug/L	0.991	68796	0.049
Ni	60	10.000	ug/L	0.741	14588	0.010
Cu	63		ug/L		34095	0.024
Cu	65	10.000	ug/L	1.159	16268	0.011
Zn	66	10.000	ug/L	2.339	12590	0.029
Zn	67		ug/L		16246	-0.010
Zn	68		ug/L		10500	0.020
> Ge	74		ug/L		421310	421309.787
As	75	10.000	ug/L	3.451	15310	0.028
Se	77		ug/L		7267	-0.005
Se	82	10.000	ug/L	7.184	1156	0.003
Kr	83		ug/L		1023	-0.000
Sr	88	10.000	ug/L	0.798	137288	0.548
Y	89		ug/L		63	0.000
Zr	90	10.000	ug/L	3.051	71827	0.279
Mo	98	10.000	ug/L	1.414	33601	0.134
Ag	107	10.000	ug/L	1.816	58220	0.233
Cd	111	10.000	ug/L	0.721	13332	0.053
Cd	114		ug/L		31973	0.128
> In	115		ug/L		249913	249912.782
Sn	120	10.000	ug/L	0.969	54139	0.213
Sb	121	10.000	ug/L	12.526	39816	0.155
Sb	123		ug/L		30677	0.119
Ba	135		ug/L		13278	0.037
Ba	137	10.000	ug/L	1.029	23292	0.066
Ho	165		ug/L		17	0.000
> Lu	175		ug/L		353889	353888.711
Tl	205	10.000	ug/L	0.533	156579	0.441
Pb	208	10.000	ug/L	0.791	179405	0.504
Th	232	10.000	ug/L	2.918	185041	0.519
U	238	10.000	ug/L	1.551	188465	0.532

Sample ID: Standard 1

Report Date/Time: Monday, April 30, 2007 12:20:37

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
L Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
L Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Th	232					
L U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, April 30, 2007 12:22:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\Standard 2.039

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	99.982	ug/L	1.469	93993	0.067
Be	9	100.000	ug/L	0.699	32556	0.023
B	11	200.007	ug/L	2.534	62065	0.044
Na	23	9999.347	ug/L	4.559	16543245	11.878
Mg	24	9988.545	ug/L	7.904	20492804	14.720
Al	27	10002.099	ug/L	4.963	34816973	25.001
P	31	10013.649	ug/L	1.530	2433350	1.743
K	39	9991.489	ug/L	17.236	57358758	40.523
Ca	43	9999.770	ug/L	1.332	113191	0.081
> Sc	45		ug/L		1392237	1392237.456
Ti	47	99.990	ug/L	1.663	53700	0.038
V	51	99.953	ug/L	2.415	531844	0.384
Cr	52	100.001	ug/L	1.560	515924	0.369
Cr	53		ug/L		205603	-0.001
Mn	55	99.974	ug/L	1.875	868288	0.622
Fe	57	9996.654	ug/L	1.633	1727475	1.234
Co	59	99.971	ug/L	1.602	661756	0.475
Ni	60	99.984	ug/L	0.865	141859	0.102
Cu	63		ug/L		328207	0.236
Cu	65	99.960	ug/L	1.123	153868	0.110
Zn	66	99.878	ug/L	1.070	107343	0.257
Zn	67		ug/L		30494	0.025
Zn	68		ug/L		79809	0.186
> Ge	74		ug/L		416602	416602.313
As	75	100.052	ug/L	0.762	126673	0.296
Se	77		ug/L		14928	0.014
Se	82	100.018	ug/L	1.827	11656	0.028
Kr	83		ug/L		1099	-0.000
Sr	88	99.973	ug/L	0.480	1312644	5.338
Y	89		ug/L		116	0.000
Zr	90	100.063	ug/L	0.723	735871	2.985
Mo	98	100.008	ug/L	0.764	331738	1.349
Ag	107	99.984	ug/L	0.634	563117	2.290
Cd	111	99.995	ug/L	0.902	130226	0.530
Cd	114		ug/L		310158	1.261
> In	115		ug/L		245843	245843.417
Sn	120	99.998	ug/L	0.966	523046	2.124
Sb	121	100.138	ug/L	1.686	444295	1.803
Sb	123		ug/L		343277	1.393
Ba	135		ug/L		129962	0.369
Ba	137	99.981	ug/L	1.571	226748	0.644
Ho	165		ug/L		18	0.000
> Lu	175		ug/L		352070	352070.252
Tl	205	99.954	ug/L	0.068	1485652	4.219
Pb	208	99.986	ug/L	0.392	1751595	4.973
Th	232	100.012	ug/L	0.771	1850827	5.253
U	238	99.973	ug/L	0.871	1823628	5.179

Sample ID: Standard 2

Report Date/Time: Monday, April 30, 2007 12:25:18

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, April 30, 2007 12:27:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 1.040

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.702	ug/L	4.139	49865	0.036
Be	9	51.354	ug/L	4.205	16825	0.012
B	11	108.987	ug/L	2.348	34586	0.024
Na	23	5333.477	ug/L	11.311	8867470	6.335
Mg	24	5873.897	ug/L	3.736	12146119	8.657
Al	27	4536.501	ug/L	11.137	15855552	11.339
P	31	4337.114	ug/L	4.849	1064325	0.755
K	39	6027.848	ug/L	9.517	35155368	24.447
Ca	43	5080.321	ug/L	3.854	58248	0.041
> Sc	45		ug/L		1402604	1402603.574
Ti	47	50.621	ug/L	3.866	27485	0.019
V	51	51.794	ug/L	4.326	275904	0.199
Cr	52	52.288	ug/L	4.114	272717	0.193
Cr	53		ug/L		173107	-0.025
Mn	55	50.900	ug/L	4.840	445647	0.317
Fe	57	5099.213	ug/L	4.892	890975	0.630
Co	59	51.273	ug/L	4.577	341499	0.244
Ni	60	51.799	ug/L	4.824	73961	0.053
Cu	63		ug/L		171859	0.123
Cu	65	52.118	ug/L	4.153	80789	0.058
Zn	66	51.780	ug/L	1.059	56117	0.133
Zn	67		ug/L		21635	0.003
Zn	68		ug/L		42026	0.095
> Ge	74		ug/L		418505	418505.257
As	75	46.785	ug/L	1.854	61351	0.138
Se	77		ug/L		10918	0.004
Se	82	51.198	ug/L	1.576	5993	0.014
Kr	83		ug/L		1056	-0.000
Sr	88	51.562	ug/L	0.633	677284	2.753
Y	89		ug/L		104	0.000
Zr	90	50.113	ug/L	2.270	369634	1.495
Mo	98	50.524	ug/L	0.403	167720	0.681
Ag	107	52.012	ug/L	1.047	293016	1.191
Cd	111	51.367	ug/L	0.563	66930	0.272
Cd	114		ug/L		161692	0.657
> In	115		ug/L		245903	245902.776
Sn	120	50.363	ug/L	1.365	263960	1.070
Sb	121	51.638	ug/L	3.716	229648	0.930
Sb	123		ug/L		177927	0.720
Ba	135		ug/L		65281	0.188
Ba	137	51.096	ug/L	1.162	113949	0.329
Ho	165		ug/L		21	0.000
> Lu	175		ug/L		346095	346095.133
Tl	205	51.180	ug/L	1.237	747962	2.160
Pb	208	52.641	ug/L	0.976	906984	2.618
Th	232	52.004	ug/L	2.147	946708	2.731
U	238	52.507	ug/L	1.655	941486	2.720

Sample ID: QC Std 1

Report Date/Time: Monday, April 30, 2007 12:30:00

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	105.404				
Be	9	102.708				
B	11	108.987				
Na	23	106.670				
Mg	24	117.478				
Al	27	89.832				
P	31	86.742				
K	39	120.557				
Ca	43	101.606				
> Sc	45		101.7			
Ti	47	101.243				
V	51	103.589				
Cr	52	104.576				
Cr	53					
Mn	55	101.799				
Fe	57	101.984				
Co	59	102.547				
Ni	60	103.599				
Cu	63					
Cu	65	104.237				
Zn	66	103.560				
Zn	67					
Zn	68					
> Ge	74		101.6			
As	75	93.569				
Se	77					
Se	82	102.395				
Kr	83					
Sr	88	103.124				
Y	89					
Zr	90	100.227				
Mo	98	101.047				
Ag	107	104.024				
Cd	111	102.735				
Cd	114					
> In	115		102.8			
Sn	120	100.726				
Sb	121	103.275				
Sb	123					
Ba	135					
Ba	137	102.192				
Ho	165					
> Lu	175		101.6			
Tl	205	102.360				
Pb	208	105.281				
Th	232	104.009				
U	238	105.015				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 1	Mg	24ICV is out of limits (+/- 10%)
QC Std 1	Al	27ICV is out of limits (+/- 10%)
QC Std 1	P	31ICV is out of limits (+/- 10%)
QC Std 1	K	39ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, April 30, 2007 12:32:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 2.041

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.014	ug/L	106.268	45	0.000
Be	9	0.007	ug/L	111.462	10	0.000
B	11	3.955	ug/L	31.638	2300	0.001
Na	23	2.591	ug/L	69.377	11004	0.003
Mg	24	-1.641	ug/L	0.000	0	-0.002
Al	27	-0.650	ug/L	44.589	4001	-0.002
P	31	-3.062	ug/L	10.566	6232	-0.001
K	39	-9.706	ug/L	62.190	875734	-0.039
Ca	43	-7.940	ug/L	6.975	651	-0.000
> Sc	45		ug/L		1346352	1346352.262
Ti	47	0.003	ug/L	228.391	253	0.000
V	51	-0.437	ug/L	117.555	-5001	-0.002
Cr	52	0.211	ug/L	22.416	3641	0.001
Cr	53		ug/L		192053	-0.006
Mn	55	-0.029	ug/L	15.274	1580	-0.000
Fe	57	-1.745	ug/L	116.512	8616	-0.000
Co	59	0.002	ug/L	123.250	81	0.000
Ni	60	-0.003	ug/L	107.037	49	-0.000
Cu	63		ug/L		193	0.000
Cu	65	0.001	ug/L	383.930	129	0.000
Zn	66	-0.033	ug/L	71.431	401	-0.000
Zn	67		ug/L		17545	-0.006
Zn	68		ug/L		1775	-0.001
> Ge	74		ug/L		408618	408617.991
As	75	-0.213	ug/L	232.258	3143	-0.001
Se	77		ug/L		10009	0.002
Se	82	0.299	ug/L	20.000	33	0.000
Kr	83		ug/L		1024	-0.000
Sr	88	-0.001	ug/L	206.051	221	-0.000
Y	89		ug/L		49	0.000
Zr	90	0.417	ug/L	22.104	4879	0.012
Mo	98	0.156	ug/L	24.372	681	0.002
Ag	107	0.002	ug/L	186.411	52	0.000
Cd	111	0.001	ug/L	1227.358	28	0.000
Cd	114		ug/L		64	0.000
> In	115		ug/L		239383	239382.670
Sn	120	0.115	ug/L	24.310	1492	0.002
Sb	121	1.503	ug/L	29.912	7451	0.027
Sb	123		ug/L		5805	0.021
Ba	135		ug/L		55	0.000
Ba	137	0.006	ug/L	144.542	81	0.000
Ho	165		ug/L		15	0.000
> Lu	175		ug/L		337414	337413.637
Tl	205	0.043	ug/L	29.442	989	0.002
Pb	208	-0.001	ug/L	105.800	893	-0.000
Th	232	0.306	ug/L	28.509	6771	0.016
U	238	0.021	ug/L	34.719	469	0.001

Sample ID: QC Std 2

Report Date/Time: Monday, April 30, 2007 12:34:46

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		97.7			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		100.1			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.1			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, April 30, 2007 12:36:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 3.042

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.872	ug/L	4.667	10246	0.007
Be	9	0.519	ug/L	7.691	177	0.000
B	11	16.295	ug/L	4.230	6137	0.004
Na	23	254.723	ug/L	6.253	428337	0.303
Mg	24	13.454	ug/L	10.605	31034	0.020
Al	27	13.254	ug/L	11.805	52430	0.033
P	31	31.954	ug/L	6.907	14929	0.006
K	39	352.278	ug/L	11.692	2945997	1.429
Ca	43	90.783	ug/L	10.743	1784	0.001
> Sc	45		ug/L		1393610	1393609.843
Ti	47	8.355	ug/L	4.942	4723	0.003
V	51	10.787	ug/L	8.470	54824	0.041
Cr	52	3.068	ug/L	4.085	18429	0.011
Cr	53		ug/L		152630	-0.039
Mn	55	5.061	ug/L	3.873	45746	0.032
Fe	57	21.104	ug/L	15.175	12837	0.003
Co	59	1.055	ug/L	5.353	7049	0.005
Ni	60	2.054	ug/L	4.152	2969	0.002
Cu	63		ug/L		3639	0.002
Cu	65	1.015	ug/L	2.879	1693	0.001
Zn	66	10.319	ug/L	1.613	11354	0.027
Zn	67		ug/L		15013	-0.012
Zn	68		ug/L		9310	0.017
> Ge	74		ug/L		411740	411739.556
As	75	4.438	ug/L	11.034	8830	0.013
Se	77		ug/L		7260	-0.005
Se	82	4.631	ug/L	1.107	532	0.001
Kr	83		ug/L		1134	0.000
Sr	88	10.335	ug/L	1.095	134591	0.552
Y	89		ug/L		55	0.000
Zr	90	2.455	ug/L	8.635	19760	0.073
Mo	98	0.509	ug/L	2.195	1851	0.007
Ag	107	1.055	ug/L	2.457	5927	0.024
Cd	111	1.015	ug/L	6.687	1336	0.005
Cd	114		ug/L		3217	0.013
> In	115		ug/L		243443	243442.804
Sn	120	5.038	ug/L	1.360	26972	0.107
Sb	121	1.665	ug/L	9.863	8305	0.030
Sb	123		ug/L		6388	0.023
Ba	135		ug/L		2581	0.007
Ba	137	2.034	ug/L	1.842	4586	0.013
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		345017	345017.054
Tl	205	1.024	ug/L	1.598	15303	0.043
Pb	208	2.097	ug/L	0.935	36899	0.104
Th	232	1.008	ug/L	3.889	19659	0.053
U	238	0.214	ug/L	1.814	3941	0.011

Sample ID: QC Std 3

Report Date/Time: Monday, April 30, 2007 12:39:29

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	108.716				
Be	9	103.893				
B	11	108.632				
Na	23	101.889				
Mg	24	89.696				
Al	27	88.359				
P	31	63.909				
K	39	117.426				
Ca	43	90.783				
> Sc	45		101.1			
Ti	47	83.550				
V	51	107.873				
Cr	52	102.255				
Cr	53					
Mn	55	101.220				
Fe	57	84.416				
Co	59	105.478				
Ni	60	102.717				
Cu	63					
Cu	65	101.497				
Zn	66	103.187				
Zn	67					
Zn	68					
> Ge	74		99.9			
As	75	88.768				
Se	77					
Se	82	92.611				
Kr	83					
Sr	88	103.350				
Y	89					
Zr	90	122.734				
Mo	98	101.787				
Ag	107	105.499				
Cd	111	101.459				
Cd	114					
> In	115		101.8			
Sn	120	100.761				
Sb	121	83.271				
Sb	123					
Ba	135					
Ba	137	101.678				
Ho	165					
> Lu	175		101.3			
Tl	205	102.440				
Pb	208	104.831				
Th	232	100.794				
U	238	107.212				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits	Message
QC Std 3	P	31CRDL	is out of limits

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, April 30, 2007 12:41:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 4.043

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.683	ug/L	3.873	625	0.000
Be	9	0.016	ug/L	42.591	12	0.000
B	11	6.559	ug/L	3.889	2941	0.001
Na	23	93742.570	ug/L	2.896	143700969	111.352
Mg	24	105517.891	ug/L	1.940	200677289	155.504
Al	27	90337.829	ug/L	6.707	291383050	225.806
P	31	97958.338	ug/L	1.934	22005494	17.048
K	39	100052.548	ug/L	2.896	524555091	405.785
Ca	43	96786.598	ug/L	2.565	1009319	0.782
Sc	45		ug/L		1290482	1290481.602
Ti	47	1801.180	ug/L	0.244	892550	0.691
V	51	0.742	ug/L	126.610	1020	0.003
Cr	52	0.373	ug/L	17.698	4258	0.001
Cr	53		ug/L		124683	-0.052
Mn	55	2.300	ug/L	1.296	20226	0.014
Fe	57	103956.966	ug/L	2.652	16571319	12.835
Co	59	0.243	ug/L	0.974	1556	0.001
Ni	60	1.800	ug/L	0.921	2417	0.002
Cu	63		ug/L		5133	0.004
Cu	65	2.649	ug/L	2.130	3898	0.003
Zn	66	6.477	ug/L	0.272	7088	0.017
Zn	67		ug/L		12649	-0.017
Zn	68		ug/L		4203	0.005
Ge	74		ug/L		400322	400322.264
As	75	-0.587	ug/L	11.506	2639	-0.002
Se	77		ug/L		8056	-0.002
Se	82	-0.682	ug/L	15.171	-77	-0.000
Kr	83		ug/L		1121	0.000
Sr	88	3.263	ug/L	1.007	41001	0.174
Y	89		ug/L		647	0.003
Zr	90	0.610	ug/L	19.842	6115	0.018
Mo	98	2128.976	ug/L	0.923	6716377	28.709
Ag	107	0.078	ug/L	3.951	458	0.002
Cd	111	-0.067	ug/L	145.114	-58	-0.000
Cd	114		ug/L		6625	0.028
In	115		ug/L		233943	233943.194
Sn	120	0.347	ug/L	4.524	2613	0.007
Sb	121	0.234	ug/L	21.492	1948	0.004
Sb	123		ug/L		1514	0.003
Ba	135		ug/L		462	0.001
Ba	137	0.351	ug/L	4.087	827	0.002
Ho	165		ug/L		132	0.000
Lu	175		ug/L		336271	336270.799
Tl	205	0.008	ug/L	43.680	482	0.000
Pb	208	0.467	ug/L	1.380	8720	0.023
Th	232	0.072	ug/L	37.831	2626	0.004
U	238	0.001	ug/L	27.815	126	0.000

Sample ID: QC Std 4

Report Date/Time: Monday, April 30, 2007 12:44:12

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11	131.185				
Na	23	93.743				
Mg	24	105.539				
Al	27	90.338				
P	31	97.968				
K	39	100.053				
Ca	43	96.787				
> Sc	45		93.6			
Ti	47	90.059				
V	51					
Cr	52	16.947				
Cr	53					
Mn	55	109.532				
Fe	57	103.957				
Co	59	121.483				
Ni	60	99.972				
Cu	63					
Cu	65	105.977				
Zn	66	107.948				
Zn	67					
Zn	68					
> Ge	74		97.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88	108.780				
Y	89					
Zr	90					
Mo	98	106.449				
Ag	107					
Cd	111	-66.912				
Cd	114					
> In	115		97.8			
Sn	120					
Sb	121	46.835				
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.7			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, April 30, 2007 12:46:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 5.044

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	23.502	ug/L	1.037	20386	0.016
Be	9	20.646	ug/L	0.953	6201	0.005
B	11	26.032	ug/L	1.591	8388	0.006
Na	23	101713.468	ug/L	7.754	155017227	120.821
Mg	24	100540.862	ug/L	8.247	190097649	148.170
Al	27	90919.763	ug/L	9.862	291561484	227.261
P	31	95678.307	ug/L	1.299	21373230	16.651
K	39	99329.744	ug/L	9.659	517709046	402.854
Ca	43	96145.421	ug/L	0.862	997066	0.776
> Sc	45		ug/L		1283231	1283231.464
Ti	47	1770.465	ug/L	0.172	872398	0.680
V	51	21.807	ug/L	1.582	104897	0.084
Cr	52	21.010	ug/L	0.232	101863	0.077
Cr	53		ug/L		132017	-0.046
Mn	55	22.754	ug/L	0.916	183491	0.142
Fe	57	103751.213	ug/L	0.816	16446271	12.810
Co	59	20.591	ug/L	0.725	125683	0.098
Ni	60	21.405	ug/L	1.819	28032	0.022
Cu	63		ug/L		65330	0.051
Cu	65	22.569	ug/L	1.501	32114	0.025
Zn	66	24.926	ug/L	0.738	25831	0.064
Zn	67		ug/L		14905	-0.011
Zn	68		ug/L		18030	0.040
> Ge	74		ug/L		396741	396741.259
As	75	19.211	ug/L	2.286	25834	0.057
Se	77		ug/L		9371	0.001
Se	82	19.023	ug/L	2.190	2110	0.005
Kr	83		ug/L		1096	0.000
Sr	88	24.174	ug/L	1.454	300328	1.291
Y	89		ug/L		598	0.002
Zr	90	20.566	ug/L	2.818	144512	0.614
Mo	98	2122.958	ug/L	0.710	6656083	28.628
Ag	107	20.226	ug/L	0.765	107757	0.463
Cd	111	19.926	ug/L	0.432	24565	0.106
Cd	114		ug/L		64698	0.278
> In	115		ug/L		232501	232500.662
Sn	120	20.642	ug/L	1.125	102807	0.438
Sb	121	22.349	ug/L	1.981	94512	0.402
Sb	123		ug/L		72399	0.308
Ba	135		ug/L		24922	0.074
Ba	137	20.196	ug/L	2.019	43893	0.130
Ho	165		ug/L		129	0.000
> Lu	175		ug/L		336983	336982.592
Tl	205	18.784	ug/L	1.556	267513	0.793
Pb	208	20.019	ug/L	1.230	336386	0.996
Th	232	20.538	ug/L	0.249	364869	1.079
U	238	20.852	ug/L	0.805	364127	1.080

Sample ID: QC Std 5

Report Date/Time: Monday, April 30, 2007 12:48:57

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	117.511				
Be	9	103.232				
B	11	104.126				
Na	23	101.713				
Mg	24	100.561				
Al	27	90.920				
P	31	95.688				
K	39	99.330				
Ca	43	96.145				
> Sc	45		93.1			
| Ti	47	88.523				
| V	51	109.034				
| Cr	52	94.641				
| Cr	53					
| Mn	55	102.957				
| Fe	57	103.751				
| Co	59	101.938				
| Ni	60	98.189				
| Cu	63					
| Cu	65	100.306				
| Zn	66	95.868				
| Zn	67					
| Zn	68					
> Ge	74		96.3			
| As	75	96.055				
| Se	77					
| Se	82	95.115				
| Kr	83					
| Sr	88	105.106				
| Y	89					
| Zr	90	102.832				
| Mo	98	106.148				
| Ag	107	101.129				
| Cd	111	99.136				
| Cd	114					
> In	115		97.2			
| Sn	120	103.210				
| Sb	121	109.017				
| Sb	123					
| Ba	135					
| Ba	137	100.979				
| Ho	165					
> Lu	175		98.9			
| Tl	205	93.918				
| Pb	208	100.095				
| Th	232	102.692				
| U	238	104.260				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 30, 2007 12:50:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 6.045

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	57.139	ug/L	3.495	54262	0.039
Be	9	52.862	ug/L	3.481	17388	0.012
B	11	100.906	ug/L	2.911	32224	0.022
Na	23	5646.929	ug/L	11.488	9443940	6.708
Mg	24	5830.836	ug/L	8.109	12075273	8.593
Al	27	4268.978	ug/L	10.900	15016353	10.671
P	31	4097.759	ug/L	3.511	1010034	0.713
K	39	5076.925	ug/L	18.121	29815568	20.591
Ca	43	4830.563	ug/L	3.600	55623	0.039
> Sc	45		ug/L		1407382	1407382.461
Ti	47	49.274	ug/L	4.482	26854	0.019
V	51	51.065	ug/L	5.388	272902	0.196
Cr	52	50.710	ug/L	3.973	265542	0.187
Cr	53		ug/L		168270	-0.029
Mn	55	50.212	ug/L	4.532	441285	0.313
Fe	57	4950.357	ug/L	4.320	868523	0.611
Co	59	50.083	ug/L	4.438	334779	0.238
Ni	60	50.439	ug/L	3.424	72312	0.051
Cu	63		ug/L		167302	0.119
Cu	65	51.570	ug/L	4.569	80213	0.057
Zn	66	51.265	ug/L	1.198	56117	0.132
Zn	67		ug/L		20734	0.001
Zn	68		ug/L		41588	0.093
> Ge	74		ug/L		422625	422624.613
As	75	46.657	ug/L	0.345	61807	0.138
Se	77		ug/L		11192	0.004
Se	82	50.639	ug/L	2.110	5986	0.014
Kr	83		ug/L		1113	-0.000
Sr	88	52.129	ug/L	0.432	695094	2.784
Y	89		ug/L		98	0.000
Zr	90	50.172	ug/L	2.194	375650	1.497
Mo	98	53.042	ug/L	0.493	178735	0.715
Ag	107	50.949	ug/L	0.844	291389	1.167
Cd	111	50.999	ug/L	0.597	67458	0.270
Cd	114		ug/L		164918	0.660
> In	115		ug/L		249628	249628.234
Sn	120	51.016	ug/L	1.325	271425	1.084
Sb	121	50.305	ug/L	4.550	227111	0.906
Sb	123		ug/L		174198	0.695
Ba	135		ug/L		65275	0.183
Ba	137	49.765	ug/L	1.443	114116	0.320
Ho	165		ug/L		21	0.000
> Lu	175		ug/L		355869	355869.211
Tl	205	49.939	ug/L	1.169	750399	2.108
Pb	208	51.337	ug/L	1.666	909421	2.553
Th	232	51.736	ug/L	1.552	968321	2.717
U	238	52.299	ug/L	2.067	964165	2.709

Sample ID: QC Std 6

Report Date/Time: Monday, April 30, 2007 12:53:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	114.277				
Be	9	105.725				
B	11	100.906				
Na	23	112.939				
Mg	24	116.617				
Al	27	84.534				
P	31	81.955				
K	39	101.539				
Ca	43	96.611				
> Sc	45		102.1			
Ti	47	98.548				
V	51	102.129				
Cr	52	101.420				
Cr	53					
Mn	55	100.423				
Fe	57	99.007				
Co	59	100.165				
Ni	60	100.878				
Cu	63					
Cu	65	103.140				
Zn	66	102.530				
Zn	67					
Zn	68					
> Ge	74		102.6			
As	75	93.314				
Se	77					
Se	82	101.278				
Kr	83					
Sr	88	104.258				
Y	89					
Zr	90	100.344				
Mo	98	106.083				
Ag	107	101.898				
Cd	111	101.999				
Cd	114					
> In	115		104.4			
Sn	120	102.031				
Sb	121	100.609				
Sb	123					
Ba	135					
Ba	137	99.531				
Ho	165					
> Lu	175		104.5			
Tl	205	99.878				
Pb	208	102.674				
Th	232	103.472				
U	238	104.598				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	Na	23	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24	24CCV is out of limits (+/- 10%)
QC Std 6	Al	27	27CCV is out of limits (+/- 10%)
QC Std 6	P	31	31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 30, 2007 12:55:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 7.046

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	0.013 ug/L	96.636	42	0.000
|	Be	9	0.009 ug/L	124.961	10	0.000
|	B	11	2.906 ug/L	44.734	1914	0.001
|	Na	23	1.350 ug/L	236.541	8670	0.002
|	Mg	24	-0.937 ug/L	130.223	1334	-0.001
|	Al	27	-0.913 ug/L	32.916	3000	-0.002
|	P	31	-4.765 ug/L	16.694	5609	-0.001
|	K	39	-19.780 ug/L	5.904	789214	-0.080
|	Ca	43	2.342 ug/L	81.715	734	0.000
>	Sc	45	ug/L		1294672	1294672.194
|	Ti	47	0.328 ug/L	20.026	404	0.000
|	V	51	-0.136 ug/L	334.446	-3347	-0.001
|	Cr	52	0.183 ug/L	20.736	3367	0.001
|	Cr	53	ug/L		176630	-0.012
|	Mn	55	-0.041 ug/L	10.702	1422	-0.000
|	Fe	57	-0.255 ug/L	1439.552	8522	-0.000
|	Co	59	-0.000 ug/L	1107.380	64	-0.000
|	Ni	60	-0.004 ug/L	179.566	47	-0.000
|	Cu	63	ug/L		176	0.000
|	Cu	65	0.017 ug/L	69.888	146	0.000
|	Zn	66	-0.057 ug/L	63.709	370	-0.000
|	Zn	67	ug/L		15866	-0.009
|	Zn	68	ug/L		1524	-0.002
>	Ge	74	ug/L		401720	401719.957
|	As	75	-0.443 ug/L	77.417	2820	-0.001
|	Se	77	ug/L		9440	0.001
|	Se	82	-0.147 ug/L	228.838	-18	-0.000
|	Kr	83	ug/L		926	-0.000
|	Sr	88	-0.003 ug/L	29.060	202	-0.000
|	Y	89	ug/L		44	-0.000
|	Zr	90	0.380 ug/L	24.104	4573	0.011
|	Mo	98	0.702 ug/L	8.791	2424	0.009
|	Ag	107	0.003 ug/L	85.583	57	0.000
|	Cd	111	0.002 ug/L	93.476	29	0.000
|	Cd	114	ug/L		69	0.000
>	In	115	ug/L		237488	237487.986
|	Sn	120	0.089 ug/L	35.220	1349	0.002
|	Sb	121	1.158 ug/L	31.878	5914	0.021
|	Sb	123	ug/L		4579	0.016
|	Ba	135	ug/L		39	-0.000
|	Ba	137	-0.002 ug/L	140.545	63	-0.000
|	Ho	165	ug/L		15	0.000
>	Lu	175	ug/L		338585	338584.850
|	Tl	205	0.077 ug/L	25.568	1483	0.003
|	Pb	208	-0.007 ug/L	22.372	788	-0.000
|	Th	232	0.179 ug/L	33.299	4541	0.009
	U	238	0.014 ug/L	27.943	360	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 30, 2007 12:58:28

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		93.9			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		97.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		99.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.4			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 7	Mo	98CCB is out of limts (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Monday, April 30, 2007 13:00:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 10.047

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	1162.404	ug/L	1.938	1018756	0.785
Be	9	1070.922	ug/L	0.927	325077	0.250
B	11	0.149	ug/L	219.362	1138	0.000
Na	23	51881.028	ug/L	17.101	79888889	61.627
Mg	24	50432.233	ug/L	6.963	96560202	74.323
Al	27	47566.649	ug/L	3.468	154345584	118.896
P	31	24635.970	ug/L	1.550	5573248	4.287
K	39	53006.698	ug/L	6.218	279947744	214.980
Ca	43	49275.913	ug/L	0.945	517403	0.398
Sc	45		ug/L		1298482	1298482.321
Ti	47	34.047	ug/L	3.850	17209	0.013
V	51	1082.057	ug/L	2.011	5395901	4.158
Cr	52	1078.962	ug/L	1.368	5166871	3.978
Cr	53		ug/L		730106	0.414
Mn	55	1060.473	ug/L	0.375	8573789	6.601
Fe	57	53885.437	ug/L	1.540	8648290	6.653
Co	59	1033.987	ug/L	0.639	6382753	4.916
Ni	60	968.998	ug/L	1.908	1281624	0.987
Cu	63		ug/L		3181086	2.450
Cu	65	967.535	ug/L	2.074	1387751	1.069
Zn	66	2565.114	ug/L	1.851	2633296	6.590
Zn	67		ug/L		397834	0.947
Zn	68		ug/L		1736860	4.343
Ge	74		ug/L		399479	399478.760
As	75	919.389	ug/L	0.994	1088929	2.718
Se	77		ug/L		46401	0.094
Se	82	485.160	ug/L	0.945	54214	0.136
Kr	83		ug/L		980	-0.000
Sr	88	1104.181	ug/L	2.198	13912605	58.960
Y	89		ug/L		1106	0.005
Zr	90	528.751	ug/L	2.378	3724467	15.775
Mo	98	1080.912	ug/L	1.360	3439647	14.576
Ag	107	241.711	ug/L	1.083	1306670	5.537
Cd	111	991.469	ug/L	0.648	1239235	5.251
Cd	114		ug/L		3196693	13.547
In	115		ug/L		235984	235984.075
Sn	120	1078.182	ug/L	0.951	5404788	22.900
Sb	121	251.088	ug/L	2.704	1067689	4.521
Sb	123		ug/L		818852	3.467
Ba	135		ug/L		3504173	9.920
Ba	137	2466.772	ug/L	0.531	5612055	15.886
Ho	165		ug/L		75	0.000
Lu	175		ug/L		353263	353263.090
Tl	205	498.022	ug/L	0.945	7425657	21.019
Pb	208	5172.519	ug/L	1.000	90871502	257.242
Th	232	2720.153	ug/L	0.527	50470909	142.869
U	238	5400.151	ug/L	0.829	98826582	279.763

Sample ID: QC Std 10

Report Date/Time: Monday, April 30, 2007 13:03:13

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	116.240				
Be	9	107.092				
B	11					
Na	23	103.762				
Mg	24	100.864				
Al	27	95.133				
P	31	98.544				
K	39	106.013				
Ca	43	98.552				
> Sc	45		94.2			
Ti	47					
V	51	108.206				
Cr	52	107.896				
Cr	53					
Mn	55	106.047				
Fe	57	107.771				
Co	59	103.399				
Ni	60	96.900				
Cu	63					
Cu	65	96.753				
Zn	66	102.605				
Zn	67					
Zn	68					
> Ge	74		96.9			
As	75	91.939				
Se	77					
Se	82	97.032				
Kr	83					
Sr	88	110.418				
Y	89					
Zr	90	105.750				
Mo	98	108.091				
Ag	107	96.684				
Cd	111	99.147				
Cd	114					
> In	115		98.6			
Sn	120	107.818				
Sb	121	100.435				
Sb	123					
Ba	135					
Ba	137	98.671				
Ho	165					
> Lu	175		103.7			
Tl	205	99.604				
Pb	208	103.450				
Th	232	108.806				
U	238	108.003				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 10	Li	7LRS is out of limits (+/- 10%)
QC Std 10	Sr	88LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Monday, April 30, 2007 13:05:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 11.048

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	61.212 ug/L	0.689	54918	0.041
Be	9	56.087 ug/L	0.066	17427	0.013
B	11	108.351 ug/L	2.454	32601	0.024
Na	23	5164.021 ug/L	17.628	8148093	6.134
Mg	24	5202.305 ug/L	9.331	10183428	7.667
Al	27	4858.853 ug/L	2.277	16142719	12.145
P	31	4292.716 ug/L	1.777	999310	0.747
K	39	4923.262 ug/L	9.263	27456458	19.967
Ca	43	5132.783 ug/L	1.714	55791	0.041
> Sc	45	ug/L		1328487	1328486.756
Ti	47	50.155 ug/L	3.137	25830	0.019
V	51	52.151 ug/L	1.529	263520	0.200
Cr	52	52.839 ug/L	1.257	261323	0.195
Cr	53	ug/L		169281	-0.021
Mn	55	52.450 ug/L	0.243	435555	0.326
Fe	57	5172.239 ug/L	1.049	857171	0.639
Co	59	51.894 ug/L	1.103	327797	0.247
Ni	60	52.502 ug/L	0.757	71106	0.053
Cu	63	ug/L		165011	0.124
Cu	65	52.895 ug/L	1.407	77754	0.058
Zn	66	51.613 ug/L	0.518	54978	0.133
Zn	67	ug/L		21468	0.004
Zn	68	ug/L		41070	0.095
> Ge	74	ug/L		411303	411302.838
As	75	47.996 ug/L	1.047	61781	0.142
Se	77	ug/L		10669	0.004
Se	82	52.740 ug/L	0.766	6067	0.015
Kr	83	ug/L		1155	0.000
Sr	88	51.433 ug/L	2.420	674913	2.746
Y	89	ug/L		92	0.000
Zr	90	51.038 ug/L	2.233	376016	1.523
Mo	98	51.960 ug/L	1.962	172299	0.701
Ag	107	50.761 ug/L	0.799	285710	1.163
Cd	111	50.929 ug/L	1.242	66294	0.270
Cd	114	ug/L		160067	0.651
> In	115	ug/L		245687	245687.002
Sn	120	51.004 ug/L	2.108	267030	1.083
Sb	121	54.696 ug/L	2.932	242945	0.985
Sb	123	ug/L		189087	0.766
Ba	135	ug/L		64122	0.182
Ba	137	49.826 ug/L	0.923	112953	0.321
Ho	165	ug/L		19	0.000
> Lu	175	ug/L		351788	351787.960
Tl	205	50.105 ug/L	0.599	744328	2.115
Pb	208	52.069 ug/L	0.717	911882	2.590
Th	232	53.550 ug/L	1.166	990811	2.813
U	238	53.378 ug/L	0.449	972913	2.765

Sample ID: QC Std 11

Report Date/Time: Monday, April 30, 2007 13:07:55

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	122.424				
Be	9	112.173				
B	11	108.351				
Na	23	103.280				
Mg	24	104.046				
Al	27	96.215				
P	31	85.854				
K	39	98.465				
Ca	43	102.656				
> Sc	45			96.4		
Ti	47	100.310				
V	51	104.302				
Cr	52	105.679				
Cr	53					
Mn	55	104.900				
Fe	57	103.445				
Co	59	103.789				
Ni	60	105.004				
Cu	63					
Cu	65	105.789				
Zn	66	103.225				
Zn	67					
Zn	68					
> Ge	74			99.8		
As	75	95.992				
Se	77					
Se	82	105.479				
Kr	83					
Sr	88	102.865				
Y	89					
Zr	90	102.077				
Mo	98	103.920				
Ag	107	101.522				
Cd	111	101.858				
Cd	114					
> In	115			102.7		
Sn	120	102.009				
Sb	121	109.392				
Sb	123					
Ba	135					
Ba	137	99.653				
Ho	165					
> Lu	175			103.3		
Tl	205	100.211				
Pb	208	104.138				
Th	232	107.099				
U	238	106.757				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	Li	7	7CCV is out of limits (+/- 10%)
QC Std 11	Be	9	9CCV is out of limits (+/- 10%)
QC Std 11	P	31	31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Monday, April 30, 2007 13:09:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 12.049

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
| Li	7	0.111 ug/L	9.867	127	0.000
| Be	9	0.038 ug/L	38.410	19	0.000
| B	11	2.526 ug/L	28.197	1806	0.001
| Na	23	0.472 ug/L	679.072	7336	0.001
| Mg	24	-0.941 ug/L	32.550	1333	-0.001
| Al	27	0.116 ug/L	286.414	6335	0.000
| P	31	-4.984 ug/L	7.991	5558	-0.001
| K	39	-18.251 ug/L	47.191	797001	-0.074
| Ca	43	-7.613 ug/L	42.260	629	-0.000
> | Sc	45	ug/L		1294523	1294522.896
| Ti	47	0.039 ug/L	7.317	261	0.000
| V	51	0.025 ug/L	1750.816	-2555	0.000
| Cr	52	0.261 ug/L	19.286	3734	0.001
| Cr	53	ug/L		178214	-0.011
| Mn	55	-0.034 ug/L	7.432	1478	-0.000
| Fe	57	-1.595 ug/L	54.370	8309	-0.000
| Co	59	0.008 ug/L	7.251	112	0.000
| Ni	60	0.003 ug/L	207.101	56	0.000
| Cu	63	ug/L		419	0.000
| Cu	65	0.081 ug/L	10.341	238	0.000
| Zn	66	-0.042 ug/L	21.018	386	-0.000
| Zn	67	ug/L		16777	-0.007
| Zn	68	ug/L		1688	-0.001
> | Ge	74	ug/L		402523	402523.360
| As	75	-0.108 ug/L	217.269	3223	-0.000
| Se	77	ug/L		8996	0.000
| Se	82	-0.157 ug/L	285.995	-18	-0.000
| Kr	83	ug/L		937	-0.000
| Sr	88	-0.000 ug/L	155.367	231	-0.000
| Y	89	ug/L		41	-0.000
| Zr	90	0.498 ug/L	18.896	5389	0.015
| Mo	98	0.594 ug/L	8.156	2069	0.008
| Ag	107	0.009 ug/L	51.152	89	0.000
| Cd	111	0.007 ug/L	114.313	35	0.000
| Cd	114	ug/L		60	0.000
> | In	115	ug/L		236704	236703.668
| Sn	120	0.475 ug/L	18.800	3280	0.010
| Sb	121	3.170 ug/L	23.052	14445	0.057
| Sb	123	ug/L		11124	0.044
| Ba	135	ug/L		58	0.000
| Ba	137	0.015 ug/L	21.951	100	0.000
| Ho	165	ug/L		14	0.000
> | Lu	175	ug/L		335691	335691.139
| Tl	205	0.099 ug/L	27.519	1776	0.004
| Pb	208	0.005 ug/L	66.420	978	0.000
| Th	232	0.642 ug/L	18.116	12657	0.034
U	238	0.134 ug/L	12.752	2434	0.007

Sample ID: QC Std 12

Report Date/Time: Monday, April 30, 2007 13:12:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		93.9			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		97.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		98.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.5			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 12	Mo	98CCB is out of limits (+/- PQL)
QC Std 12	Sb	121CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 6
 Sample Date/Time: Monday, April 30, 2007 14:02:22
 Sample Type:
 Sample Description:
 Number of Replicates: 3
 Batch ID:
 Method File: c:\elandata\Method\6020.mth
 Dataset File: C:\elandata\Dataset\070430\QC Std 6.060

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	63.780	ug/L	1.200	54695	0.043
Be	9	56.268	ug/L	0.825	16711	0.013
B	11	110.423	ug/L	1.485	31730	0.024
Na	23	5342.342	ug/L	14.147	8063318	6.346
Mg	24	5445.377	ug/L	5.277	10191300	8.025
Al	27	4766.549	ug/L	4.090	15136239	11.914
P	31	4238.137	ug/L	2.063	943125	0.738
K	39	4986.929	ug/L	8.344	26554445	20.226
Ca	43	5053.301	ug/L	2.334	52518	0.041
> Sc	45		ug/L		1269771	1269771.178
Ti	47	50.300	ug/L	1.066	24755	0.019
V	51	53.200	ug/L	0.808	256971	0.204
Cr	52	53.364	ug/L	0.384	252246	0.197
Cr	53		ug/L		154303	-0.027
Mn	55	52.990	ug/L	0.819	420572	0.330
Fe	57	5220.373	ug/L	1.728	826841	0.645
Co	59	52.657	ug/L	1.244	317936	0.250
Ni	60	52.451	ug/L	0.686	67897	0.053
Cu	63		ug/L		159334	0.125
Cu	65	53.931	ug/L	1.083	75769	0.060
Zn	66	50.685	ug/L	1.487	53241	0.130
Zn	67		ug/L		20083	0.001
Zn	68		ug/L		39621	0.092
> Ge	74		ug/L		405595	405595.265
As	75	48.109	ug/L	1.216	61048	0.142
Se	77		ug/L		10190	0.003
Se	82	51.110	ug/L	0.773	5798	0.014
Kr	83		ug/L		960	-0.000
Sr	88	51.306	ug/L	0.879	668408	2.740
Y	89		ug/L		109	0.000
Zr	90	47.628	ug/L	5.709	348377	1.421
Mo	98	50.488	ug/L	1.361	166226	0.681
Ag	107	51.170	ug/L	1.722	285906	1.172
Cd	111	51.198	ug/L	1.346	66162	0.271
Cd	114		ug/L		160925	0.660
> In	115		ug/L		243915	243914.666
Sn	120	50.676	ug/L	0.984	263435	1.076
Sb	121	50.092	ug/L	4.607	220900	0.902
Sb	123		ug/L		169873	0.694
Ba	135		ug/L		63916	0.180
Ba	137	48.632	ug/L	1.102	110910	0.313
Ho	165		ug/L		26	0.000
> Lu	175		ug/L		353939	353938.581
Tl	205	50.075	ug/L	2.143	748203	2.113
Pb	208	52.058	ug/L	2.076	916956	2.589
Th	232	52.144	ug/L	3.703	970148	2.739
U	238	53.301	ug/L	1.702	977171	2.761

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	127.560				
Be	9	112.536				
B	11	110.423				
Na	23	106.847				
Mg	24	108.908				
Al	27	94.387				
P	31	84.763				
K	39	99.739				
Ca	43	101.066				
> Sc	45			92.1		
Ti	47	100.599				
V	51	106.400				
Cr	52	106.729				
Cr	53					
Mn	55	105.980				
Fe	57	104.407				
Co	59	105.314				
Ni	60	104.901				
Cu	63					
Cu	65	107.863				
Zn	66	101.369				
Zn	67					
Zn	68					
> Ge	74			98.4		
As	75	96.217				
Se	77					
Se	82	102.221				
Kr	83					
Sr	88	102.611				
Y	89					
Zr	90	95.256				
Mo	98	100.976				
Ag	107	102.339				
Cd	111	102.396				
Cd	114					
> In	115			102.0		
Sn	120	101.352				
Sb	121	100.184				
Sb	123					
Ba	135					
Ba	137	97.264				
Ho	165					
> Lu	175			103.9		
Tl	205	100.150				
Pb	208	104.115				
Th	232	104.287				
U	238	106.602				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	Be	9	9CCV is out of limits (+/- 10%)
QC Std 6	B	11	11CCV is out of limits (+/- 10%)
QC Std 6	P	31	31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 30, 2007 14:07:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 7.061

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	0.050 ug/L	10.327	72	0.000
|	Be	9	0.007 ug/L	111.844	9	0.000
|	B	11	3.917 ug/L	34.752	2120	0.001
|	Na	23	1.813 ug/L	115.741	9003	0.002
|	Mg	24	-1.288 ug/L	23.724	667	-0.002
|	Al	27	-0.548 ug/L	69.791	4001	-0.001
|	P	31	-4.515 ug/L	37.555	5467	-0.001
|	K	39	-24.468 ug/L	71.151	736573	-0.099
|	Ca	43	-1.385 ug/L	291.477	671	-0.000
>	Sc	45	ug/L		1251878	1251878.292
|	Ti	47	0.008 ug/L	695.689	237	0.000
|	V	51	0.038 ug/L	2654.267	-2271	0.000
|	Cr	52	0.491 ug/L	3.101	4673	0.002
|	Cr	53	ug/L		166723	-0.015
|	Mn	55	0.002 ug/L	618.788	1710	0.000
|	Fe	57	-1.008 ug/L	273.075	8114	-0.000
|	Co	59	0.004 ug/L	18.911	88	0.000
|	Ni	60	-0.001 ug/L	394.168	49	-0.000
|	Cu	63	ug/L		183	0.000
|	Cu	65	0.029 ug/L	34.614	157	0.000
|	Zn	66	-0.092 ug/L	6.376	321	-0.000
|	Zn	67	ug/L		15924	-0.007
|	Zn	68	ug/L		1559	-0.001
>	Ge	74	ug/L		386960	386960.009
|	As	75	-0.249 ug/L	135.510	2939	-0.001
|	Se	77	ug/L		8662	0.000
|	Se	82	2.100 ug/L	7.422	226	0.001
|	Kr	83	ug/L		927	-0.000
|	Sr	88	-0.001 ug/L	79.630	212	-0.000
|	Y	89	ug/L		50	0.000
|	Zr	90	0.440 ug/L	21.891	4883	0.013
|	Mo	98	0.143 ug/L	25.466	617	0.002
|	Ag	107	0.003 ug/L	17.343	59	0.000
|	Cd	111	-0.007 ug/L	149.703	18	-0.000
|	Cd	114	ug/L		57	0.000
>	In	115	ug/L		231678	231678.033
|	Sn	120	0.096 ug/L	28.887	1349	0.002
|	Sb	121	0.839 ug/L	32.130	4446	0.015
|	Sb	123	ug/L		3346	0.011
|	Ba	135	ug/L		52	0.000
|	Ba	137	0.009 ug/L	64.339	86	0.000
|	Ho	165	ug/L		12	0.000
>	Lu	175	ug/L		334764	334764.115
|	Tl	205	0.027 ug/L	27.095	749	0.001
|	Pb	208	-0.010 ug/L	25.336	727	-0.001
|	Th	232	0.379 ug/L	30.177	8001	0.020
	U	238	0.022 ug/L	25.689	480	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 30, 2007 14:09:53

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		90.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		93.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		96.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.3			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 30, 2007 14:49:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 6.070

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	63.195	ug/L	0.753	53967	0.043
Be	9	56.539	ug/L	0.719	16721	0.013
B	11	106.615	ug/L	1.518	30546	0.023
Na	23	5167.966	ug/L	14.321	7767816	6.139
Mg	24	5123.023	ug/L	11.409	9548440	7.550
Al	27	5053.105	ug/L	13.019	15981013	12.631
P	31	4267.009	ug/L	0.760	945507	0.743
K	39	5329.211	ug/L	9.381	28196571	21.614
Ca	43	5028.559	ug/L	1.260	52042	0.041
> Sc	45		ug/L		1264464	1264463.540
Ti	47	50.556	ug/L	1.050	24776	0.019
V	51	53.131	ug/L	1.206	255563	0.204
Cr	52	53.692	ug/L	0.209	252719	0.198
Cr	53		ug/L		157451	-0.024
Mn	55	53.406	ug/L	0.725	422084	0.332
Fe	57	5276.658	ug/L	0.880	832140	0.651
Co	59	53.147	ug/L	1.132	319544	0.253
Ni	60	53.104	ug/L	1.135	68456	0.054
Cu	63		ug/L		158915	0.126
Cu	65	53.753	ug/L	0.534	75205	0.059
Zn	66	51.246	ug/L	1.776	53328	0.132
Zn	67		ug/L		20145	0.002
Zn	68		ug/L		40306	0.095
> Ge	74		ug/L		401839	401838.817
As	75	48.765	ug/L	2.696	61262	0.144
Se	77		ug/L		10332	0.004
Se	82	52.412	ug/L	1.835	5891	0.015
Kr	83		ug/L		1002	-0.000
Sr	88	50.862	ug/L	1.266	669618	2.716
Y	89		ug/L		108	0.000
Zr	90	47.349	ug/L	4.447	350176	1.413
Mo	98	49.455	ug/L	1.091	164559	0.667
Ag	107	50.751	ug/L	1.331	286591	1.163
Cd	111	51.285	ug/L	0.687	66980	0.272
Cd	114		ug/L		160196	0.650
> In	115		ug/L		246477	246477.479
Sn	120	51.265	ug/L	0.977	269295	1.089
Sb	121	50.649	ug/L	4.830	225809	0.912
Sb	123		ug/L		173473	0.700
Ba	135		ug/L		63712	0.182
Ba	137	48.979	ug/L	1.544	110645	0.315
Ho	165		ug/L		22	0.000
> Lu	175		ug/L		350575	350575.248
Tl	205	50.550	ug/L	1.468	748314	2.133
Pb	208	52.486	ug/L	0.546	916015	2.610
Th	232	51.835	ug/L	1.154	955938	2.723
U	238	53.445	ug/L	0.639	970741	2.769

Sample ID: QC Std 6

Report Date/Time: Monday, April 30, 2007 14:52:36

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	126.390				
Be	9	113.077				
B	11	106.615				
Na	23	103.359				
Mg	24	102.460				
Al	27	100.061				
P	31	85.340				
K	39	106.584				
Ca	43	100.571				
> Sc	45		91.7			
Ti	47	101.111				
V	51	106.262				
Cr	52	107.384				
Cr	53					
Mn	55	106.811				
Fe	57	105.533				
Co	59	106.295				
Ni	60	106.208				
Cu	63					
Cu	65	107.506				
Zn	66	102.491				
Zn	67					
Zn	68					
> Ge	74		97.5			
As	75	97.530				
Se	77					
Se	82	104.824				
Kr	83					
Sr	88	101.725				
Y	89					
Zr	90	94.698				
Mo	98	98.910				
Ag	107	101.502				
Cd	111	102.570				
Cd	114					
> In	115		103.0			
Sn	120	102.529				
Sb	121	101.299				
Sb	123					
Ba	135					
Ba	137	97.958				
Ho	165					
> Lu	175		102.9			
Tl	205	101.100				
Pb	208	104.973				
Th	232	103.671				
U	238	106.889				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	Be	9	9CCV is out of limits (+/- 10%)
QC Std 6	P	31	31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 30, 2007 14:54:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 7.071

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.015	ug/L	34.077	43	0.000
Be	9	0.010	ug/L	86.119	10	0.000
B	11	1.849	ug/L	46.283	1580	0.000
Na	23	-0.274	ug/L	738.507	6001	-0.000
Mg	24	-1.459	ug/L	21.567	333	-0.002
Al	27	-0.573	ug/L	49.740	4001	-0.001
P	31	-6.070	ug/L	8.638	5177	-0.001
K	39	-23.560	ug/L	25.433	748793	-0.096
Ca	43	-5.999	ug/L	87.879	630	-0.000
> Sc	45		ug/L		1260983	1260983.063
Ti	47	0.003	ug/L	214.203	236	0.000
V	51	0.212	ug/L	314.782	-1627	0.001
Cr	52	0.436	ug/L	10.948	4453	0.002
Cr	53		ug/L		168634	-0.015
Mn	55	-0.034	ug/L	29.343	1442	-0.000
Fe	57	-0.760	ug/L	126.608	8222	-0.000
Co	59	0.001	ug/L	106.881	71	0.000
Ni	60	0.002	ug/L	126.556	52	0.000
Cu	63		ug/L		157	0.000
Cu	65	0.006	ug/L	174.576	127	0.000
Zn	66	-0.087	ug/L	23.228	333	-0.000
Zn	67		ug/L		16262	-0.007
Zn	68		ug/L		1597	-0.001
> Ge	74		ug/L		394222	394222.371
As	75	0.065	ug/L	719.061	3357	0.000
Se	77		ug/L		8912	0.000
Se	82	2.005	ug/L	19.200	220	0.001
Kr	83		ug/L		956	-0.000
Sr	88	-0.003	ug/L	35.515	197	-0.000
Y	89		ug/L		44	0.000
Zr	90	0.384	ug/L	25.044	4599	0.011
Mo	98	0.140	ug/L	27.519	621	0.002
Ag	107	0.003	ug/L	30.493	57	0.000
Cd	111	-0.011	ug/L	65.197	12	-0.000
Cd	114		ug/L		54	0.000
> In	115		ug/L		237129	237128.834
Sn	120	0.082	ug/L	33.279	1312	0.002
Sb	121	0.789	ug/L	36.493	4337	0.014
Sb	123		ug/L		3300	0.011
Ba	135		ug/L		42	-0.000
Ba	137	0.004	ug/L	56.011	76	0.000
Ho	165		ug/L		15	0.000
> Lu	175		ug/L		340163	340162.856
Tl	205	0.029	ug/L	45.447	791	0.001
Pb	208	-0.011	ug/L	20.584	720	-0.001
Th	232	0.346	ug/L	29.996	7548	0.018
U	238	0.017	ug/L	32.838	413	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 30, 2007 14:57:23

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		91.5			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		95.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		99.1			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.9			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 30, 2007 15:30:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 6.078

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	64.147	ug/L	0.641	53505	0.043
Be	9	56.399	ug/L	1.982	16290	0.013
B	11	106.090	ug/L	4.274	29691	0.023
Na	23	5867.357	ug/L	3.509	8613145	6.970
Mg	24	5193.261	ug/L	13.718	9459226	7.653
Al	27	4713.210	ug/L	5.014	14553540	11.781
P	31	4333.139	ug/L	0.666	937756	0.754
K	39	4702.220	ug/L	6.672	24403492	19.071
Ca	43	5013.343	ug/L	0.739	50682	0.040
> Sc	45		ug/L		1235064	1235064.040
Ti	47	51.217	ug/L	1.286	24513	0.020
V	51	53.188	ug/L	1.569	249883	0.204
Cr	52	54.056	ug/L	0.878	248492	0.199
Cr	53		ug/L		158454	-0.020
Mn	55	53.563	ug/L	0.382	413472	0.333
Fe	57	5327.286	ug/L	0.523	820529	0.658
Co	59	53.536	ug/L	0.482	314399	0.255
Ni	60	53.223	ug/L	1.418	67016	0.054
Cu	63		ug/L		156388	0.126
Cu	65	54.714	ug/L	0.982	74764	0.060
Zn	66	51.846	ug/L	0.910	53222	0.133
Zn	67		ug/L		20129	0.002
Zn	68		ug/L		39549	0.094
> Ge	74		ug/L		396403	396402.723
As	75	49.716	ug/L	2.005	61540	0.147
Se	77		ug/L		10322	0.004
Se	82	53.328	ug/L	2.229	5911	0.015
Kr	83		ug/L		1006	-0.000
Sr	88	51.249	ug/L	0.489	660923	2.737
Y	89		ug/L		97	0.000
Zr	90	47.717	ug/L	2.535	345668	1.424
Mo	98	49.741	ug/L	1.305	162113	0.671
Ag	107	51.053	ug/L	0.664	282390	1.169
Cd	111	51.710	ug/L	0.441	66151	0.274
Cd	114		ug/L		159319	0.660
> In	115		ug/L		241435	241434.986
Sn	120	51.261	ug/L	0.401	263779	1.089
Sb	121	51.633	ug/L	5.012	225466	0.930
Sb	123		ug/L		172569	0.711
Ba	135		ug/L		62561	0.180
Ba	137	48.647	ug/L	1.100	108753	0.313
Ho	165		ug/L		22	0.000
> Lu	175		ug/L		346923	346923.349
Tl	205	50.166	ug/L	0.456	734906	2.117
Pb	208	51.964	ug/L	0.561	897446	2.584
Th	232	51.870	ug/L	2.160	946395	2.724
U	238	53.153	ug/L	1.362	955333	2.754

Sample ID: QC Std 6

Report Date/Time: Monday, April 30, 2007 15:32:56

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	128.294				
Be	9	112.799				
B	11	106.090				
Na	23	117.347				
Mg	24	103.865				
Al	27	93.331				
P	31	86.663				
K	39	94.044				
Ca	43	100.267				
> Sc	45			89.6		
Ti	47	102.435				
V	51	106.376				
Cr	52	108.112				
Cr	53					
Mn	55	107.125				
Fe	57	106.546				
Co	59	107.072				
Ni	60	106.445				
Cu	63					
Cu	65	109.427				
Zn	66	103.692				
Zn	67					
Zn	68					
> Ge	74			96.2		
As	75	99.433				
Se	77					
Se	82	106.655				
Kr	83					
Sr	88	102.498				
Y	89					
Zr	90	95.435				
Mo	98	99.482				
Ag	107	102.106				
Cd	111	103.420				
Cd	114					
> In	115			100.9		
Sn	120	102.523				
Sb	121	103.266				
Sb	123					
Ba	135					
Ba	137	97.294				
Ho	165					
> Lu	175			101.8		
Tl	205	100.333				
Pb	208	103.928				
Th	232	103.739				
U	238	106.307				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	Be	9	9CCV is out of limits (+/- 10%)
QC Std 6	Na	23	23CCV is out of limits (+/- 10%)
QC Std 6	P	31	31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 30, 2007 15:34:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 7.079

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.020	ug/L	59.650	45	0.000
Be	9	0.002	ug/L	560.669	7	0.000
B	11	1.904	ug/L	53.626	1520	0.000
Na	23	-2.191	ug/L	54.498	3000	-0.003
Mg	24	-1.265	ug/L	25.775	667	-0.002
Al	27	-0.738	ug/L	111.658	3334	-0.002
P	31	-4.631	ug/L	18.737	5256	-0.001
K	39	-11.515	ug/L	111.715	776293	-0.047
Ca	43	-4.760	ug/L	72.460	615	-0.000
> Sc	45		ug/L		1206896	1206895.503
Ti	47	-0.034	ug/L	35.475	209	-0.000
V	51	1.059	ug/L	74.469	2445	0.004
Cr	52	0.536	ug/L	11.711	4710	0.002
Cr	53		ug/L		167157	-0.010
Mn	55	-0.039	ug/L	12.662	1345	-0.000
Fe	57	2.935	ug/L	45.039	8422	0.000
Co	59	0.003	ug/L	45.759	77	0.000
Ni	60	0.001	ug/L	360.290	49	0.000
Cu	63		ug/L		168	0.000
Cu	65	0.008	ug/L	103.776	125	0.000
Zn	66	-0.087	ug/L	23.692	326	-0.000
Zn	67		ug/L		16114	-0.007
Zn	68		ug/L		1575	-0.001
> Ge	74		ug/L		386894	386894.347
As	75	-0.052	ug/L	444.093	3163	-0.000
Se	77		ug/L		8848	0.001
Se	82	1.770	ug/L	31.401	191	0.000
Kr	83		ug/L		994	-0.000
Sr	88	-0.002	ug/L	34.690	203	-0.000
Y	89		ug/L		49	0.000
Zr	90	0.357	ug/L	24.175	4384	0.011
Mo	98	0.141	ug/L	30.693	622	0.002
Ag	107	0.007	ug/L	132.650	79	0.000
Cd	111	-0.002	ug/L	288.076	24	-0.000
Cd	114		ug/L		52	0.000
> In	115		ug/L		235759	235758.873
Sn	120	0.081	ug/L	44.513	1299	0.002
Sb	121	0.787	ug/L	36.507	4305	0.014
Sb	123		ug/L		3308	0.011
Ba	135		ug/L		41	-0.000
Ba	137	-0.004	ug/L	48.158	57	-0.000
Ho	165		ug/L		17	0.000
> Lu	175		ug/L		333109	333109.314
Tl	205	0.038	ug/L	43.931	904	0.002
Pb	208	-0.013	ug/L	17.582	678	-0.001
Th	232	0.334	ug/L	33.576	7154	0.018
U	238	0.019	ug/L	28.356	433	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 30, 2007 15:37:43

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		87.5			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		93.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		98.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.8			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 30, 2007 16:23:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 6.089

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	63.354 ug/L	0.839	54120	0.043
|	Be	9	55.429 ug/L	2.583	16398	0.013
|	B	11	108.821 ug/L	0.505	31168	0.024
|	Na	23	5527.396 ug/L	6.680	8312799	6.566
|	Mg	24	5162.891 ug/L	1.785	9627157	7.609
|	Al	27	4511.682 ug/L	1.951	14271948	11.277
|	P	31	4342.101 ug/L	0.241	962397	0.756
|	K	39	4739.441 ug/L	8.485	25195644	19.222
|	Ca	43	5035.856 ug/L	1.978	52141	0.041
>	Sc	45	ug/L		1264931	1264930.691
|	Ti	47	51.116 ug/L	1.260	25058	0.020
|	V	51	53.375 ug/L	1.077	256835	0.205
|	Cr	52	53.593 ug/L	0.413	252352	0.198
|	Cr	53	ug/L		197711	0.008
|	Mn	55	53.731 ug/L	1.245	424792	0.334
|	Fe	57	5334.269 ug/L	0.749	841421	0.659
|	Co	59	53.295 ug/L	2.208	320532	0.253
|	Ni	60	53.424 ug/L	0.854	68890	0.054
|	Cu	63	ug/L		161319	0.127
|	Cu	65	54.040 ug/L	0.438	75634	0.060
|	Zn	66	50.840 ug/L	0.391	53659	0.131
|	Zn	67	ug/L		24460	0.011
|	Zn	68	ug/L		40594	0.094
>	Ge	74	ug/L		407476	407476.010
|	As	75	49.174 ug/L	1.809	62618	0.145
|	Se	77	ug/L		11806	0.007
|	Se	82	53.065 ug/L	1.979	6048	0.015
|	Kr	83	ug/L		995	-0.000
|	Sr	88	52.029 ug/L	0.309	679688	2.778
|	Y	89	ug/L		92	0.000
|	Zr	90	48.672 ug/L	3.295	357063	1.452
|	Mo	98	50.164 ug/L	1.445	165607	0.676
|	Ag	107	51.408 ug/L	1.186	288029	1.178
|	Cd	111	52.057 ug/L	1.796	67450	0.276
|	Cd	114	ug/L		162565	0.665
>	In	115	ug/L		244572	244571.670
|	Sn	120	51.242 ug/L	1.727	267063	1.088
|	Sb	121	51.805 ug/L	6.394	229124	0.933
|	Sb	123	ug/L		176575	0.719
|	Ba	135	ug/L		62993	0.178
|	Ba	137	48.578 ug/L	1.079	110392	0.313
|	Ho	165	ug/L		21	0.000
>	Lu	175	ug/L		352661	352660.814
|	Tl	205	50.223 ug/L	1.235	747850	2.120
|	Pb	208	52.399 ug/L	1.484	919841	2.606
|	Th	232	51.911 ug/L	1.013	962943	2.726
	U	238	53.319 ug/L	0.865	974195	2.762

Sample ID: QC Std 6

Report Date/Time: Monday, April 30, 2007 16:25:48

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	126.708				
Be	9	110.858				
B	11	108.821				
Na	23	110.548				
Mg	24	103.258				
Al	27	89.340				
P	31	86.842				
K	39	94.789				
Ca	43	100.717				
> Sc	45			91.8		
Ti	47	102.232				
V	51	106.749				
Cr	52	107.187				
Cr	53					
Mn	55	107.463				
Fe	57	106.685				
Co	59	106.589				
Ni	60	106.847				
Cu	63					
Cu	65	108.080				
Zn	66	101.681				
Zn	67					
Zn	68					
> Ge	74			98.9		
As	75	98.347				
Se	77					
Se	82	106.129				
Kr	83					
Sr	88	104.057				
Y	89					
Zr	90	97.344				
Mo	98	100.328				
Ag	107	102.815				
Cd	111	104.114				
Cd	114					
> In	115			102.2		
Sn	120	102.484				
Sb	121	103.611				
Sb	123					
Ba	135					
Ba	137	97.157				
Ho	165					
> Lu	175			103.5		
Tl	205	100.445				
Pb	208	104.798				
Th	232	103.821				
U	238	106.639				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	Be	9	9CCV is out of limits (+/- 10%)
QC Std 6	Na	23	23CCV is out of limits (+/- 10%)
QC Std 6	Al	27	27CCV is out of limits (+/- 10%)
QC Std 6	P	31	31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 30, 2007 16:27:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 7.090

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	0.010 ug/L	167.483	36	0.000
|	Be	9	0.021 ug/L	66.356	13	0.000
|	B	11	2.785 ug/L	36.247	1762	0.001
|	Na	23	0.570 ug/L	231.170	7002	0.001
|	Mg	24	-1.452 ug/L	22.495	333	-0.002
|	Al	27	-1.068 ug/L	18.188	2334	-0.003
|	P	31	-4.259 ug/L	14.554	5363	-0.001
|	K	39	-12.807 ug/L	45.020	773742	-0.052
|	Ca	43	-4.921 ug/L	73.184	617	-0.000
>	Sc	45	ug/L		1213354	1213354.154
|	Ti	47	-0.023 ug/L	103.081	215	-0.000
|	V	51	0.006 ug/L	13319.140	-2487	0.000
|	Cr	52	0.304 ug/L	15.287	3694	0.001
|	Cr	53	ug/L		182757	0.002
|	Mn	55	-0.027 ug/L	30.100	1436	-0.000
|	Fe	57	2.670 ug/L	89.071	8426	0.000
|	Co	59	0.001 ug/L	26.896	70	0.000
|	Ni	60	-0.002 ug/L	236.509	46	-0.000
|	Cu	63	ug/L		151	0.000
|	Cu	65	-0.001 ug/L	867.106	113	-0.000
|	Zn	66	-0.065 ug/L	39.278	350	-0.000
|	Zn	67	ug/L		17882	-0.003
|	Zn	68	ug/L		1831	-0.001
>	Ge	74	ug/L		389382	389382.021
|	As	75	-0.024 ug/L	3761.785	3207	-0.000
|	Se	77	ug/L		9292	0.002
|	Se	82	1.521 ug/L	35.240	165	0.000
|	Kr	83	ug/L		971	-0.000
|	Sr	88	-0.003 ug/L	13.944	198	-0.000
|	Y	89	ug/L		45	0.000
|	Zr	90	0.347 ug/L	23.972	4300	0.010
|	Mo	98	0.143 ug/L	39.199	625	0.002
|	Ag	107	0.001 ug/L	10.857	50	0.000
|	Cd	111	-0.002 ug/L	667.566	24	-0.000
|	Cd	114	ug/L		51	0.000
>	In	115	ug/L		235142	235141.846
|	Sn	120	0.110 ug/L	32.187	1439	0.002
|	Sb	121	0.771 ug/L	37.261	4222	0.014
|	Sb	123	ug/L		3342	0.011
|	Ba	135	ug/L		47	0.000
|	Ba	137	0.003 ug/L	16.602	73	0.000
|	Ho	165	ug/L		11	0.000
>	Lu	175	ug/L		333682	333682.092
|	Tl	205	0.111 ug/L	18.467	1929	0.005
|	Pb	208	-0.009 ug/L	24.595	745	-0.000
|	Th	232	0.345 ug/L	30.704	7360	0.018
	U	238	0.018 ug/L	38.519	414	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 30, 2007 16:30:34

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		88.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		94.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		98.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.0			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201319368

Sample Date/Time: Monday, April 30, 2007 16:33:16

Sample Type:

Sample Description: HLA1 6020 MB

Number of Replicates: 3

Batch ID: 627203|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\1201319368.091

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.023	ug/L	37.193	48	0.000
Be	9	0.019	ug/L	100.629	12	0.000
B	11	0.419	ug/L	63.126	1145	0.000
Na	23	2.564	ug/L	136.024	10004	0.003
Mg	24	-0.715	ug/L	45.317	1667	-0.001
Al	27	1.551	ug/L	56.984	10337	0.004
P	31	-9.929	ug/L	6.621	4201	-0.002
K	39	0.007	ug/L	62184.584	843881	0.000
Ca	43	25.687	ug/L	18.236	925	0.000
> Sc	45		ug/L		1223544	1223544.250
Ti	47	0.198	ug/L	35.565	321	0.000
V	51	-4.058	ug/L	18.201	-21606	-0.016
Cr	52	1.094	ug/L	7.337	7289	0.004
Cr	53		ug/L		317886	0.111
Mn	55	0.092	ug/L	7.539	2359	0.001
Fe	57	9.685	ug/L	16.952	9556	0.001
Co	59	0.003	ug/L	36.620	77	0.000
Ni	60	0.005	ug/L	137.140	56	0.000
Cu	63		ug/L		191	0.000
Cu	65	0.022	ug/L	6.555	145	0.000
Zn	66	1.412	ug/L	0.461	1883	0.004
Zn	67		ug/L		38093	0.046
Zn	68		ug/L		4005	0.005
> Ge	74		ug/L		401031	401030.765
As	75	0.055	ug/L	812.018	3401	0.000
Se	77		ug/L		19581	0.027
Se	82	0.722	ug/L	46.791	80	0.000
Kr	83		ug/L		1006	-0.000
Sr	88	0.023	ug/L	0.935	505	0.001
Y	89		ug/L		61	0.000
Zr	90	0.144	ug/L	31.671	2794	0.004
Mo	98	0.008	ug/L	91.574	195	0.000
Ag	107	0.008	ug/L	10.142	81	0.000
Cd	111	0.009	ug/L	234.828	36	0.000
Cd	114		ug/L		74	0.000
> In	115		ug/L		228464	228464.279
Sn	120	0.049	ug/L	9.648	1102	0.001
Sb	121	0.041	ug/L	86.643	1108	0.001
Sb	123		ug/L		875	0.001
Ba	135		ug/L		97	0.000
Ba	137	0.041	ug/L	7.294	153	0.000
Ho	165		ug/L		16	0.000
> Lu	175		ug/L		329710	329709.526
Tl	205	0.035	ug/L	7.802	858	0.001
Pb	208	0.016	ug/L	8.367	1146	0.001
Th	232	0.045	ug/L	12.672	2101	0.002
U	238	0.015	ug/L	4.101	363	0.001

Sample ID: 1201319368

Report Date/Time: Monday, April 30, 2007 16:36:02

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		88.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		97.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		95.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		96.8			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1201319369

Sample Date/Time: Monday, April 30, 2007 16:38:02

Sample Type:

Sample Description: HLA1 6020 LCS

Number of Replicates: 3

Batch ID: 627203|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\1201319369.092

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	64.167	ug/L	2.352	54454	0.043
Be	9	57.662	ug/L	0.942	16947	0.013
B	11	111.896	ug/L	2.862	31810	0.024
Na	23	2246.578	ug/L	4.560	3359514	2.669
Mg	24	2069.098	ug/L	20.367	3836169	3.049
Al	27	1558.178	ug/L	29.498	4904152	3.895
P	31	1784.992	ug/L	1.523	396878	0.311
K	39	2191.108	ug/L	7.894	12035510	8.887
Ca	43	2087.034	ug/L	0.771	21869	0.017
> Sc	45		ug/L		1256658	1256657.594
Ti	47	46.543	ug/L	0.474	22687	0.018
V	51	49.664	ug/L	1.823	237239	0.191
Cr	52	56.367	ug/L	1.642	263549	0.208
Cr	53		ug/L		355552	0.134
Mn	55	54.447	ug/L	1.426	427620	0.339
Fe	57	2208.122	ug/L	0.877	350908	0.273
Co	59	53.755	ug/L	0.789	321211	0.256
Ni	60	53.105	ug/L	0.327	68034	0.054
Cu	63		ug/L		161353	0.128
Cu	65	54.710	ug/L	0.849	76067	0.060
Zn	66	52.738	ug/L	1.235	55941	0.135
Zn	67		ug/L		48769	0.071
Zn	68		ug/L		43878	0.102
> Ge	74		ug/L		409640	409639.687
As	75	50.397	ug/L	2.390	64430	0.149
Se	77		ug/L		24188	0.037
Se	82	50.892	ug/L	1.213	5831	0.014
Kr	83		ug/L		1037	-0.000
Sr	88	52.351	ug/L	0.339	649931	2.795
Y	89		ug/L		99	0.000
Zr	90	48.751	ug/L	2.179	339933	1.455
Mo	98	50.972	ug/L	1.815	159913	0.687
Ag	107	52.475	ug/L	1.006	279418	1.202
Cd	111	51.753	ug/L	1.614	63732	0.274
Cd	114		ug/L		155318	0.668
> In	115		ug/L		232425	232425.310
Sn	120	51.969	ug/L	1.579	257411	1.104
Sb	121	55.929	ug/L	1.240	234986	1.007
Sb	123		ug/L		181389	0.777
Ba	135		ug/L		61649	0.184
Ba	137	49.088	ug/L	0.338	105834	0.316
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		334573	334573.188
Tl	205	49.756	ug/L	1.296	702918	2.100
Pb	208	53.296	ug/L	1.256	887617	2.651
Th	232	52.268	ug/L	3.934	919773	2.745
U	238	54.193	ug/L	1.111	939390	2.808

Sample ID: 1201319369

Report Date/Time: Monday, April 30, 2007 16:40:48

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		91.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		97.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.2			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 184428004

Sample Date/Time: Monday, April 30, 2007 16:42:47

Sample Type:

Sample Description: HLA1 6020

Number of Replicates: 3

Batch ID: 627203|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\184428004.093

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.172	ug/L	9.285	178	0.000
Be	9	0.018	ug/L	45.001	12	0.000
B	11	74.757	ug/L	0.320	21860	0.016
Na	23	276317.545	ug/L	12.161	417461391	328.224
Mg	24	6196.672	ug/L	5.436	11621335	9.132
Al	27	36.139	ug/L	16.139	120513	0.090
P	31	19.246	ug/L	8.974	10819	0.003
K	39	2717.217	ug/L	1.301	14891883	11.020
Ca	43	42395.718	ug/L	1.598	436010	0.342
> Sc	45		ug/L		1271563	1271562.872
Ti	47	2.057	ug/L	5.578	1241	0.001
V	51	-1.769	ug/L	73.200	-11197	-0.007
Cr	52	2.012	ug/L	2.983	11884	0.007
Cr	53		ug/L		322872	0.105
Mn	55	1.510	ug/L	0.740	13675	0.009
Fe	57	215.758	ug/L	1.728	42283	0.027
Co	59	0.119	ug/L	3.123	783	0.001
Ni	60	1.796	ug/L	1.459	2377	0.002
Cu	63		ug/L		7270	0.006
Cu	65	0.624	ug/L	1.970	996	0.001
Zn	66	1.764	ug/L	3.755	2246	0.005
Zn	67		ug/L		40446	0.052
Zn	68		ug/L		5865	0.009
> Ge	74		ug/L		401211	401211.338
As	75	-0.242	ug/L	175.836	3055	-0.001
Se	77		ug/L		23369	0.036
Se	82	0.277	ug/L	124.575	30	0.000
Kr	83		ug/L		1098	-0.000
Sr	88	162.699	ug/L	0.746	1958053	8.688
Y	89		ug/L		6144	0.027
Zr	90	0.696	ug/L	31.652	6476	0.021
Mo	98	12.003	ug/L	1.595	36641	0.162
Ag	107	0.016	ug/L	13.487	120	0.000
Cd	111	-0.048	ug/L	36.124	-32	-0.000
Cd	114		ug/L		137	0.000
> In	115		ug/L		225375	225375.382
Sn	120	0.105	ug/L	6.493	1356	0.002
Sb	121	0.005	ug/L	246.126	949	0.000
Sb	123		ug/L		754	0.000
Ba	135		ug/L		87692	0.267
Ba	137	72.487	ug/L	1.582	153171	0.467
Ho	165		ug/L		272	0.001
> Lu	175		ug/L		328001	328000.817
Tl	205	0.399	ug/L	23.466	5896	0.017
Pb	208	0.094	ug/L	6.037	2409	0.005
Th	232	0.336	ug/L	26.256	7109	0.018
U	238	0.679	ug/L	1.850	11638	0.035

Sample ID: 184428004

Report Date/Time: Monday, April 30, 2007 16:45:31

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		92.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		97.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		96.3			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Na 23 Upper, S, EEENa

MassOut of Limits Message
23Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: 184428005

Sample Date/Time: Monday, April 30, 2007 16:47:30

Sample Type:

Sample Description: HLA1 6020

Number of Replicates: 3

Batch ID: 627203|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\184428005.094

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	19.612	ug/L	0.771	17823	0.013
Be	9	0.014	ug/L	43.697	12	0.000
B	11	33.810	ug/L	1.910	11072	0.007
Na	23	73894.631	ug/L	4.827	117968109	87.776
Mg	24	30940.995	ug/L	8.314	61294737	45.598
Al	27	165.879	ug/L	17.486	563077	0.415
P	31	5.681	ug/L	12.089	8266	0.001
K	39	1402.057	ug/L	5.130	8569121	5.686
Ca	43	134399.889	ug/L	1.587	1459555	1.085
> Sc	45		ug/L		1344003	1344002.720
Ti	47	7.118	ug/L	1.761	3923	0.003
V	51	-3.619	ug/L	24.169	-21431	-0.014
Cr	52	2.062	ug/L	3.214	12802	0.008
Cr	53		ug/L		355393	0.116
Mn	55	20.001	ug/L	1.523	169146	0.125
Fe	57	828.431	ug/L	3.049	146341	0.102
Co	59	0.379	ug/L	3.593	2491	0.002
Ni	60	2.487	ug/L	2.456	3458	0.003
Cu	63		ug/L		6833	0.005
Cu	65	1.948	ug/L	2.592	3019	0.002
Zn	66	31.504	ug/L	2.184	34036	0.081
Zn	67		ug/L		50427	0.073
Zn	68		ug/L		39764	0.090
> Ge	74		ug/L		415056	415055.777
As	75	-1.105	ug/L	39.054	2103	-0.003
Se	77		ug/L		30953	0.052
Se	82	-0.187	ug/L	342.012	-22	-0.000
Kr	83		ug/L		1092	-0.000
Sr	88	415.934	ug/L	0.529	5268227	22.209
Y	89		ug/L		4699	0.020
Zr	90	0.096	ug/L	11.907	2568	0.003
Mo	98	0.136	ug/L	4.819	609	0.002
Ag	107	0.013	ug/L	29.814	110	0.000
Cd	111	0.008	ug/L	34.710	37	0.000
Cd	114		ug/L		105	0.000
> In	115		ug/L		237200	237200.167
Sn	120	0.619	ug/L	3.815	4019	0.013
Sb	121	-0.087	ug/L	10.187	603	-0.002
Sb	123		ug/L		632	-0.001
Ba	135		ug/L		749187	2.199
Ba	137	583.042	ug/L	0.785	1279039	3.755
Ho	165		ug/L		237	0.001
> Lu	175		ug/L		340625	340624.854
Tl	205	0.135	ug/L	7.840	2314	0.006
Pb	208	0.475	ug/L	0.456	8966	0.024
Th	232	0.099	ug/L	7.343	3144	0.005
U	238	0.376	ug/L	1.794	6747	0.019

Sample ID: 184428005

Report Date/Time: Monday, April 30, 2007 16:50:15

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		97.5			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		100.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		99.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.0			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Na 23 Upper, S, EE	Na	23	Sample is out of limits (over linear range)
Ca 43 Upper, S, EE	Ca	43	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: 184428006
 Sample Date/Time: Monday, April 30, 2007 16:52:14
 Sample Type:
 Sample Description: HLA1 6020
 Number of Replicates: 3
 Batch ID: 627203|1|prb
 Method File: c:\elandata\Method\6020.mth
 Dataset File: C:\elandata\Dataset\070430\184428006.095

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	60.444	ug/L	1.703	54636	0.041
Be	9	0.010	ug/L	20.724	11	0.000
B	11	44.349	ug/L	2.523	14116	0.010
Na	23	138761.501	ug/L	15.160	220124462	164.828
Mg	24	38955.692	ug/L	7.476	76912300	57.410
Al	27	16.914	ug/L	13.761	62806	0.042
P	31	-2.276	ug/L	14.347	6379	-0.000
K	39	1978.131	ug/L	8.646	11671235	8.023
Ca	43	173511.099	ug/L	1.736	1877257	1.401
> Sc	45		ug/L		1338779	1338779.067
Ti	47	2.237	ug/L	4.322	1399	0.001
V	51	-6.697	ug/L	24.214	-37096	-0.026
Cr	52	1.745	ug/L	3.391	11193	0.006
Cr	53		ug/L		383768	0.138
Mn	55	1.165	ug/L	1.898	11525	0.007
Fe	57	708.376	ug/L	1.294	125931	0.087
Co	59	0.363	ug/L	1.268	2377	0.002
Ni	60	3.116	ug/L	3.332	4305	0.003
Cu	63		ug/L		4626	0.003
Cu	65	1.013	ug/L	1.266	1624	0.001
Zn	66	3.324	ug/L	1.568	3884	0.009
Zn	67		ug/L		49282	0.073
Zn	68		ug/L		24551	0.055
> Ge	74		ug/L		404237	404236.641
As	75	-1.592	ug/L	20.628	1464	-0.005
Se	77		ug/L		36277	0.068
Se	82	-0.356	ug/L	60.302	-42	-0.000
Kr	83		ug/L		1138	0.000
Sr	88	532.594	ug/L	1.895	6638967	28.439
Y	89		ug/L		759	0.003
Zr	90	-0.060	ug/L	12.466	1440	-0.002
Mo	98	0.062	ug/L	7.100	368	0.001
Ag	107	0.010	ug/L	11.123	94	0.000
Cd	111	0.001	ug/L	62.158	27	0.000
Cd	114		ug/L		89	0.000
> In	115		ug/L		233478	233478.342
Sn	120	0.059	ug/L	10.445	1179	0.001
Sb	121	-0.114	ug/L	2.273	484	-0.002
Sb	123		ug/L		570	-0.001
Ba	135		ug/L		1132356	3.354
Ba	137	890.563	ug/L	1.073	1936676	5.735
Ho	165		ug/L		38	0.000
> Lu	175		ug/L		337659	337659.042
Tl	205	0.065	ug/L	7.364	1307	0.003
Pb	208	0.067	ug/L	4.147	2031	0.003
Th	232	0.001	ug/L	198.515	1382	0.000
U	238	0.385	ug/L	0.830	6847	0.020

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		97.1			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		98.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		97.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.1			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Upper	Na	23	Sample is out of limits (over linear range)
Upper	Ca	43	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: 184428007

Sample Date/Time: Monday, April 30, 2007 16:56:59

Sample Type:

Sample Description: HLA1 6020

Number of Replicates: 3

Batch ID: 627203|1|prb

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\184428007.096

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	8.946	ug/L	3.107	8186	0.006
Be	9	0.029	ug/L	44.547	17	0.000
B	11	27.053	ug/L	1.085	9131	0.006
Na	23	62727.872	ug/L	8.644	100606180	74.511
Mg	24	19654.140	ug/L	8.157	39127873	28.965
Al	27	222.269	ug/L	9.380	756996	0.556
P	31	22.434	ug/L	5.835	12245	0.004
K	39	1316.335	ug/L	4.432	8141243	5.339
Ca	43	77305.712	ug/L	1.518	843952	0.624
> Sc	45		ug/L		1350724	1350723.748
Ti	47	9.722	ug/L	0.819	5293	0.004
V	51	-4.164	ug/L	36.529	-24352	-0.016
Cr	52	2.257	ug/L	1.097	13841	0.008
Cr	53		ug/L		399426	0.147
Mn	55	19.034	ug/L	0.108	161872	0.118
Fe	57	690.277	ug/L	3.473	124037	0.085
Co	59	0.334	ug/L	3.491	2215	0.002
Ni	60	1.804	ug/L	3.844	2537	0.002
Cu	63		ug/L		4210	0.003
Cu	65	1.086	ug/L	1.302	1747	0.001
Zn	66	4.387	ug/L	0.700	5110	0.011
Zn	67		ug/L		48054	0.068
Zn	68		ug/L		13235	0.027
> Ge	74		ug/L		414174	414173.992
As	75	-0.923	ug/L	143.557	2325	-0.003
Se	77		ug/L		32306	0.056
Se	82	-0.062	ug/L	510.837	-8	-0.000
Kr	83		ug/L		1061	-0.000
Sr	88	225.958	ug/L	0.135	2775119	12.065
Y	89		ug/L		3511	0.015
Zr	90	0.035	ug/L	30.923	2068	0.001
Mo	98	0.114	ug/L	3.088	523	0.002
Ag	107	0.020	ug/L	11.803	146	0.000
Cd	111	0.014	ug/L	41.986	43	0.000
Cd	114		ug/L		106	0.000
> In	115		ug/L		229985	229985.094
Sn	120	0.298	ug/L	1.277	2327	0.006
Sb	121	-0.076	ug/L	8.455	631	-0.001
Sb	123		ug/L		592	-0.001
Ba	135		ug/L		387848	1.151
Ba	137	307.895	ug/L	1.524	668293	1.983
Ho	165		ug/L		206	0.001
> Lu	175		ug/L		337044	337044.230
Tl	205	0.051	ug/L	7.480	1100	0.002
Pb	208	0.368	ug/L	1.006	7077	0.018
Th	232	0.069	ug/L	7.392	2587	0.004
U	238	0.414	ug/L	1.294	7328	0.021

Sample ID: 184428007

Report Date/Time: Monday, April 30, 2007 16:59:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		98.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		100.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		96.1			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		98.9			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Na 23 Upper, S, EE	Na	23	Sample is out of limits (over linear range)
Ca 43 Upper, S, EE	Ca	43	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 30, 2007 17:01:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 6.097

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	56.278	ug/L	2.570	51493	0.038
Be	9	52.862	ug/L	3.185	16747	0.012
B	11	102.263	ug/L	3.417	31437	0.022
Na	23	5884.621	ug/L	10.778	9504494	6.990
Mg	24	5610.566	ug/L	1.874	11212004	8.268
Al	27	4623.574	ug/L	2.079	15677117	11.557
P	31	4236.744	ug/L	2.996	1005777	0.737
K	39	4647.735	ug/L	13.674	26418565	18.850
Ca	43	4998.423	ug/L	2.118	55435	0.040
> Sc	45		ug/L		1355516	1355515.772
Ti	47	50.687	ug/L	3.010	26614	0.019
V	51	49.566	ug/L	3.549	255240	0.190
Cr	52	50.629	ug/L	3.342	255420	0.187
Cr	53		ug/L		210472	0.007
Mn	55	51.202	ug/L	2.762	433605	0.319
Fe	57	5068.841	ug/L	2.577	856829	0.626
Co	59	50.586	ug/L	2.387	325876	0.240
Ni	60	50.124	ug/L	5.068	69190	0.051
Cu	63		ug/L		161758	0.119
Cu	65	50.846	ug/L	2.377	76224	0.056
Zn	66	51.779	ug/L	1.021	54902	0.133
Zn	67		ug/L		25750	0.014
Zn	68		ug/L		40768	0.094
> Ge	74		ug/L		409417	409416.593
As	75	47.905	ug/L	1.106	61382	0.142
Se	77		ug/L		13084	0.010
Se	82	53.331	ug/L	2.441	6106	0.015
Kr	83		ug/L		1014	-0.000
Sr	88	51.654	ug/L	1.738	685816	2.758
Y	89		ug/L		106	0.000
Zr	90	49.108	ug/L	3.051	366170	1.465
Mo	98	50.035	ug/L	1.945	167902	0.675
Ag	107	51.515	ug/L	1.064	293380	1.180
Cd	111	51.366	ug/L	0.282	67658	0.272
Cd	114		ug/L		163042	0.656
> In	115		ug/L		248583	248583.283
Sn	120	50.789	ug/L	0.731	269092	1.079
Sb	121	50.888	ug/L	4.908	228791	0.916
Sb	123		ug/L		175049	0.701
Ba	135		ug/L		64522	0.182
Ba	137	49.670	ug/L	1.619	113189	0.320
Ho	165		ug/L		22	0.000
> Lu	175		ug/L		353654	353653.752
Tl	205	50.504	ug/L	0.723	754201	2.132
Pb	208	52.577	ug/L	0.844	925635	2.615
Th	232	51.693	ug/L	2.258	961716	2.715
U	238	52.740	ug/L	0.838	966455	2.732

Sample ID: QC Std 6

Report Date/Time: Monday, April 30, 2007 17:04:29

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	112.557				
Be	9	105.723				
B	11	102.263				
Na	23	117.692				
Mg	24	112.211				
Al	27	91.556				
P	31	84.735				
K	39	92.955				
Ca	43	99.968				
> Sc	45		98.3			
Ti	47	101.374				
V	51	99.132				
Cr	52	101.257				
Cr	53					
Mn	55	102.404				
Fe	57	101.377				
Co	59	101.171				
Ni	60	100.249				
Cu	63					
Cu	65	101.691				
Zn	66	103.557				
Zn	67					
Zn	68					
> Ge	74		99.4			
As	75	95.809				
Se	77					
Se	82	106.663				
Kr	83					
Sr	88	103.308				
Y	89					
Zr	90	98.216				
Mo	98	100.069				
Ag	107	103.030				
Cd	111	102.732				
Cd	114					
> In	115		103.9			
Sn	120	101.578				
Sb	121	101.775				
Sb	123					
Ba	135					
Ba	137	99.341				
Ho	165					
> Lu	175		103.8			
Tl	205	101.007				
Pb	208	105.154				
Th	232	103.385				
U	238	105.481				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	Na	23	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24	24CCV is out of limits (+/- 10%)
QC Std 6	P	31	31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 30, 2007 17:06:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 7.098

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.013	ug/L	59.660	43	0.000
Be	9	0.004	ug/L	107.183	9	0.000
B	11	2.017	ug/L	37.442	1729	0.000
Na	23	1.372	ug/L	121.358	9003	0.002
Mg	24	-0.790	ug/L	97.503	1667	-0.001
Al	27	-0.946	ug/L	30.200	3000	-0.002
P	31	-3.813	ug/L	50.377	6033	-0.001
K	39	-11.116	ug/L	115.142	864790	-0.045
Ca	43	-12.780	ug/L	46.762	596	-0.000
> Sc	45		ug/L		1343316	1343315.555
Ti	47	-0.036	ug/L	49.405	232	-0.000
V	51	-1.335	ug/L	39.261	-9698	-0.005
Cr	52	0.380	ug/L	26.347	4462	0.001
Cr	53		ug/L		206930	0.006
Mn	55	-0.032	ug/L	16.034	1548	-0.000
Fe	57	-1.656	ug/L	76.568	8611	-0.000
Co	59	0.000	ug/L	618.609	69	0.000
Ni	60	-0.008	ug/L	60.217	43	-0.000
Cu	63		ug/L		160	-0.000
Cu	65	-0.007	ug/L	89.941	116	-0.000
Zn	66	-0.076	ug/L	19.036	345	-0.000
Zn	67		ug/L		19954	0.002
Zn	68		ug/L		2087	-0.000
> Ge	74		ug/L		396033	396032.606
As	75	-0.179	ug/L	168.987	3087	-0.001
Se	77		ug/L		11179	0.006
Se	82	0.896	ug/L	66.666	98	0.000
Kr	83		ug/L		1029	-0.000
Sr	88	0.001	ug/L	142.649	255	0.000
Y	89		ug/L		48	0.000
Zr	90	0.334	ug/L	24.769	4282	0.010
Mo	98	0.133	ug/L	26.215	605	0.002
Ag	107	0.003	ug/L	53.460	57	0.000
Cd	111	-0.004	ug/L	129.224	22	-0.000
Cd	114		ug/L		57	0.000
> In	115		ug/L		239338	239337.623
Sn	120	0.100	ug/L	36.357	1414	0.002
Sb	121	0.793	ug/L	42.644	4380	0.014
Sb	123		ug/L		3328	0.011
Ba	135		ug/L		46	0.000
Ba	137	0.009	ug/L	24.516	87	0.000
Ho	165		ug/L		10	0.000
> Lu	175		ug/L		338662	338662.038
Tl	205	0.110	ug/L	22.055	1937	0.005
Pb	208	-0.010	ug/L	48.010	741	-0.000
Th	232	0.316	ug/L	34.138	6947	0.017
U	238	0.019	ug/L	36.741	437	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 30, 2007 17:09:15

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		97.4			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		96.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		100.1			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.4			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 30, 2007 17:46:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 6.106

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	55.972	ug/L	0.601	52703	0.038
Be	9	51.285	ug/L	0.602	16724	0.012
B	11	100.497	ug/L	3.203	31812	0.022
Na	23	6678.309	ug/L	9.246	11071621	7.933
Mg	24	5816.857	ug/L	12.076	11954573	8.572
Al	27	4695.138	ug/L	5.758	16371338	11.736
P	31	4255.943	ug/L	1.026	1039771	0.741
K	39	5475.039	ug/L	16.894	31897136	22.205
Ca	43	5157.255	ug/L	0.970	58828	0.042
> Sc	45		ug/L		1394170	1394169.575
Ti	47	52.402	ug/L	0.423	28305	0.020
V	51	50.889	ug/L	1.881	269747	0.196
Cr	52	51.298	ug/L	1.758	266313	0.189
Cr	53		ug/L		207759	0.000
Mn	55	51.934	ug/L	1.429	452593	0.323
Fe	57	5233.270	ug/L	1.480	909984	0.646
Co	59	52.054	ug/L	1.562	345058	0.247
Ni	60	51.891	ug/L	1.233	73751	0.053
Cu	63		ug/L		173012	0.124
Cu	65	53.003	ug/L	0.450	81762	0.059
Zn	66	52.426	ug/L	1.165	58506	0.135
Zn	67		ug/L		26829	0.014
Zn	68		ug/L		43461	0.096
> Ge	74		ug/L		430959	430959.243
As	75	47.746	ug/L	1.849	64413	0.141
Se	77		ug/L		11354	0.004
Se	82	54.083	ug/L	2.511	6519	0.015
Kr	83		ug/L		1085	-0.000
Sr	88	51.939	ug/L	1.218	728064	2.773
Y	89		ug/L		114	0.000
Zr	90	49.622	ug/L	3.579	390519	1.480
Mo	98	50.035	ug/L	1.379	177257	0.675
Ag	107	51.700	ug/L	1.031	310848	1.184
Cd	111	51.808	ug/L	1.714	72039	0.274
Cd	114		ug/L		172500	0.657
> In	115		ug/L		262457	262457.350
Sn	120	50.832	ug/L	0.407	284344	1.080
Sb	121	51.570	ug/L	5.889	244630	0.929
Sb	123		ug/L		187889	0.713
Ba	135		ug/L		67681	0.185
Ba	137	49.699	ug/L	0.568	117304	0.320
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		366262	366262.472
Tl	205	50.638	ug/L	0.715	783175	2.137
Pb	208	52.203	ug/L	0.776	951898	2.596
Th	232	51.370	ug/L	1.013	989718	2.698
U	238	52.635	ug/L	0.336	998848	2.727

Sample ID: QC Std 6

Report Date/Time: Monday, April 30, 2007 17:49:06

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	111.943				
Be	9	102.570				
B	11	100.497				
Na	23	133.566				
Mg	24	116.337				
Al	27	92.973				
P	31	85.119				
K	39	109.501				
Ca	43	103.145				
> Sc	45		101.1			
Ti	47	104.803				
V	51	101.778				
Cr	52	102.596				
Cr	53					
Mn	55	103.868				
Fe	57	104.665				
Co	59	104.108				
Ni	60	103.783				
Cu	63					
Cu	65	106.007				
Zn	66	104.853				
Zn	67					
Zn	68					
> Ge	74		104.6			
As	75	95.492				
Se	77					
Se	82	108.166				
Kr	83					
Sr	88	103.878				
Y	89					
Zr	90	99.245				
Mo	98	100.071				
Ag	107	103.400				
Cd	111	103.615				
Cd	114					
> In	115		109.7			
Sn	120	101.665				
Sb	121	103.141				
Sb	123					
Ba	135					
Ba	137	99.398				
Ho	165					
> Lu	175		107.5			
Tl	205	101.276				
Pb	208	104.406				
Th	232	102.741				
U	238	105.269				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Li	7CCV is out of limits (+/- 10%)
QC Std 6	Na	23CCV is out of limits (+/- 10%)
QC Std 6	Mg	24CCV is out of limits (+/- 10%)
QC Std 6	P	31CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 30, 2007 17:51:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\070430\QC Std 7.107

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	-0.002	ug/L	198.647	30	-0.000
Be	9	0.000	ug/L	2866.913	8	0.000
B	11	1.722	ug/L	57.785	1673	0.000
Na	23	1.804	ug/L	72.537	10004	0.002
Mg	24	-0.816	ug/L	70.575	1667	-0.001
Al	27	-1.079	ug/L	61.002	2667	-0.003
P	31	-0.053	ug/L	3645.741	7074	-0.000
K	39	-6.343	ug/L	68.793	912943	-0.026
Ca	43	-14.803	ug/L	18.154	589	-0.000
> Sc	45		ug/L		1375847	1375846.600
Ti	47	-0.038	ug/L	154.079	236	-0.000
V	51	-0.375	ug/L	133.493	-4867	-0.001
Cr	52	-0.017	ug/L	312.602	2554	-0.000
Cr	53		ug/L		197974	-0.004
Mn	55	0.130	ug/L	5.231	2976	0.001
Fe	57	-0.883	ug/L	297.865	8939	-0.000
Co	59	-0.000	ug/L	402.028	67	-0.000
Ni	60	-0.009	ug/L	50.177	42	-0.000
Cu	63		ug/L		164	-0.000
Cu	65	-0.009	ug/L	20.114	115	-0.000
Zn	66	-0.080	ug/L	30.307	360	-0.000
Zn	67		ug/L		20896	0.001
Zn	68		ug/L		2172	-0.000
> Ge	74		ug/L		419251	419250.516
As	75	-0.614	ug/L	90.126	2728	-0.002
Se	77		ug/L		8453	-0.002
Se	82	0.220	ug/L	71.887	25	0.000
Kr	83		ug/L		1084	-0.000
Sr	88	0.001	ug/L	151.675	263	0.000
Y	89		ug/L		59	0.000
Zr	90	0.360	ug/L	24.375	4733	0.011
Mo	98	0.125	ug/L	29.181	614	0.002
Ag	107	0.003	ug/L	43.595	64	0.000
Cd	111	-0.003	ug/L	199.502	24	-0.000
Cd	114		ug/L		50	-0.000
> In	115		ug/L		253537	253537.229
Sn	120	0.099	ug/L	27.603	1493	0.002
Sb	121	0.670	ug/L	37.767	4095	0.012
Sb	123		ug/L		3139	0.009
Ba	135		ug/L		47	0.000
Ba	137	0.003	ug/L	233.921	75	0.000
Ho	165		ug/L		13	0.000
> Lu	175		ug/L		346323	346323.184
Tl	205	0.153	ug/L	25.294	2621	0.006
Pb	208	-0.009	ug/L	38.803	766	-0.000
Th	232	0.268	ug/L	37.224	6259	0.014
U	238	0.018	ug/L	24.758	436	0.001

Sample ID: QC Std 7

Report Date/Time: Monday, April 30, 2007 17:53:52

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9999
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		99.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		101.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		106.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		101.7			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Miscellaneous

Prep LogBook

Analyst: SXJ1 Verified by: _____
 Batch: 626699
 Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201318103	UI070420A	.5	mL
MS	1201318105	UI070420B	.5	mL
MS	1201318109	UI070420B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201318102		SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
LCS	1201318103		SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428001		SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428002		SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
DUP	1201318107	184428002	SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
SDILT	1201318108	184428002	SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
MS	1201318109	184428002	SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428003		SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
SAMPLE	184460002		SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
SAMPLE	184460004		SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
DUP	1201318104	184460004	SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
MS	1201318105	184460004	SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
SDILT	1201318106	184460004	SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
SAMPLE	184460006		SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER
SAMPLE	184460008		SW846 3005A	21-APR-2007 06:45	50 mL	50 mL	1	GROUND WATER

Reagent/Solvent Lot ID	Amount	Description	Comments
649616	2.5 mL	HYDROCHLORIC ACID	
649618	1 mL	Nitric Acid CONC.	

Prep LogBook

Analyst: SXJ1 Verified by: _____
 Batch: 626723
 Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201318159	UI070402-01	.25	mL
LCS	1201318159	UI070404-06	.25	mL
MS	1201318161	UI070402-01	.25	mL
MS	1201318161	UI070404-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201318158		SW846 3005A	23-APR-2007 09:00	50 mL	50 mL	1	GROUND WATER
LCS	1201318159		SW846 3005A	23-APR-2007 09:00	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428001		SW846 3005A	23-APR-2007 09:00	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428002		SW846 3005A	23-APR-2007 09:00	50 mL	50 mL	1	GROUND WATER
DUP	1201318160	184428002	SW846 3005A	23-APR-2007 09:00	50 mL	50 mL	1	GROUND WATER
MS	1201318161	184428002	SW846 3005A	23-APR-2007 09:00	50 mL	50 mL	1	GROUND WATER
SDILT	1201318162	184428002	SW846 3005A	23-APR-2007 09:00	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428003		SW846 3005A	23-APR-2007 09:00	50 mL	50 mL	1	GROUND WATER

Reagent/Solvent Lot ID	Amount	Description	Comments
649616	2.5 mL	HYDROCHLORIC ACID	
649618	1 mL	Nitric Acid CONC.	

Prep LogBook

Analyst: SXJ1 Verified by: _____
 Batch: 627202
 Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201319369	UI070420A	.5	mL
MS	1201319371	UI070420B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201319368		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
LCS	1201319369		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428004		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428005		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428006		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428007		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184460016		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
DUP	1201319370	184460016	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
MS	1201319371	184460016	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SDILT	1201319372	184460016	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184460019		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184543003		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184543005		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER

Reagent/Solvent Lot ID	Amount	Description	Comments
649616	2.5 mL	HYDROCHLORIC ACID	
649618	1 mL	Nitric Acid CONC.	

Prep LogBook

Analyst: SXJ1 Verified by: _____
 Batch: 627238
 Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201319439	UI070402-01	.25	mL
LCS	1201319439	UI070404-06	.25	mL
MS	1201319441	UI070402-01	.25	mL
MS	1201319441	UI070404-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201319438		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
LCS	1201319439		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428004		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
DUP	1201319440	184428004	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
MS	1201319441	184428004	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SDILT	1201319442	184428004	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428005		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428006		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428007		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER

Reagent/Solvent Lot ID	Amount	Description	Comments
649616	2.5 mL	HYDROCHLORIC ACID	
649618	1 mL	Nitric Acid CONC.	

Prep LogBook

Analyst: SXJ1 Verified by: _____
 Batch: 627448
 Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201319903	UI070402-01	.25	mL
LCS	1201319903	UI070404-06	.25	mL
MS	1201319905	UI070402-01	.25	mL
MS	1201319905	UI070404-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201319902		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	WATER
LCS	1201319903		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	WATER
SAMPLE	184428008		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428009		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184608002		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	WATER
DUP	1201319904	184608002	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	WATER
MS	1201319905	184608002	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	WATER
SDILT	1201319906	184608002	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	WATER

Reagent/Solvent Lot ID	Amount	Description	Comments
649616	2.5 mL	HYDROCHLORIC ACID	
649618	1 mL	Nitric Acid CONC.	

Prep LogBook

Analyst: SXJ1 Verified by: _____
 Batch: 627497
 Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201320020	UI070420A	.5	mL
MS	1201320022	UI070420B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201320019		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
LCS	1201320020		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428008		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184428009		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184460007		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184543006		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184543007		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
DUP	1201320021	184543007	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
MS	1201320022	184543007	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SDILT	1201320023	184543007	SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184543008		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184543009		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184543010		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184543011		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER
SAMPLE	184543012		SW846 3005A	24-APR-2007 09:30	50 mL	50 mL	1	GROUND WATER

Reagent/Solvent Lot ID	Amount	Description	Comments
649616	2.5 mL	HYDROCHLORIC ACID	
649618	1 mL	Nitric Acid CONC.	

General Chemistry

Analysis

Case Narrative

General Chemistry Narrative
MACTEC Engineering and Consulting (HLAI)
SDG CE236

Method/Analysis Information

Product: Carbon, Total Organic

Analytical Batch: 626801, 627109 and 627417 **Method:** SW846 9060

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9060:

Sample ID	Client ID
184428001	MW1203
184428002	MW0904
184428003	MW0904DUP
184428004	MW0905
184428005	MW0906S
184428006	MW0906D
184428007	MW0907
184428008	MWS01
184428009	MWS02
1201318372	Method Blank (MB)
1201318373	184428002(MW0904) Sample Duplicate (DUP)
1201318375	184428002(MW0904) Post Spike (PS)
1201318377	Laboratory Control Sample (LCS)
1201319179	Method Blank (MB)
1201319181	184416003(GU07040GLAO501) Sample Duplicate (DUP)
1201319183	184416003(GU07040GLAO501) Post Spike (PS)
1201319184	Laboratory Control Sample (LCS)
1201319826	Method Blank (MB)
1201319829	Laboratory Control Sample (LCS)
1201321110	184713002(GU070400G32L01) Sample Duplicate (DUP)
1201321111	184713002(GU070400G32L01) Post Spike (PS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-093 REV# 6.

Preparation/Analytical Method Verification

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

Calibration Information

The Carbon analysis was performed on a O-I Analytical Model 1010 Total Organic Carbon Analyzer.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Quality Control (QC) Information

Method Blank (MB) Statement

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 184428002 (MW0904)- Batch 626801, 184416003 (GU07040GLAO501)- Batch 627109 and 184713002 (GU070400G32L01)- Batch 627417.

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Miscellaneous Information**Nonconformance (NCR) Documentation**

A NCR was not required for this SDG.

Additional Comments

A 15 mg/L Total Inorganic Carbon check standard is analyzed with each analytical run to prove that the instrument is effectively sparging away the inorganic carbon.

Method/Analysis Information

Product: pH

Analytical Batch: 626560, 627175 and 627538 **Method:** SW846 9040B

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 150.1:

Sample ID	Client ID
184428001	MW1203
184428002	MW0904
184428003	MW0904DUP
184428004	MW0905
184428005	MW0906S
184428006	MW0906D
184428007	MW0907
184428008	MWS01
184428009	MWS02
1201317779	Laboratory Control Sample (LCS)
1201318022	184428002(MW0904) Sample Duplicate (DUP)
1201319310	Laboratory Control Sample (LCS)
1201319311	184555002(Dinwiddie 2) Sample Duplicate (DUP)
1201320117	Laboratory Control Sample (LCS)
1201320118	184479001(GF070400P03001) Sample Duplicate (DUP)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-008 REV# 12.

Preparation/Analytical Method Verification

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

Calibration Information

The Electrode analysis was performed on a PerpHect pH Meter Orion 370.

The Electrode analysis was performed on a Orion EA940 pH/Ion Selective Electrode Meter .

Initial Calibration

All initial calibration requirements have been met for this SDG.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch

were within acceptance limits.

Quality Control (QC) Information

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 184428002 (MW0904)- Batch 626560, 184555002 (Dinwiddie 2)- Batch 627175 and 184479001 (GF070400P03001)- Batch 627538.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

The following samples from this sample group were logged in for this analysis outside of the method specified holding time: 184428001 (MW1203), 184428002 (MW0904), 184428003 (MW0904DUP)- Batch 626560, 184428008 (MWS01) and 184428009 (MWS02)- Batch 627538. The following samples from this sample group were received by the lab outside of the method specified holding time: 184428004 (MW0905), 184428005 (MW0906S) and 184428006 (MW0906D)- Batch 627175.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Nonconformance (NCR) Documentation

The following NCR was generated for this SDG: 426628 184428007 (MW0907)- Batch 627175.

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Tom Lewis, Jr. Date: 8 MAY 07

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

HLAI003 MACTEC Engineering and Consulting

Client SDG: CE236 GEL Work Order: 184428

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

H Analytical holding time was exceeded

J Value is estimated

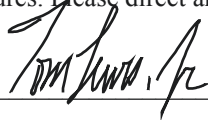
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

ND The analyte concentration is not detected above the detection limit.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by _____

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : MACTEC Engineering and Consulting
Address : 511 Congress Street
Portland, Maine 04112

Report Date: May 8, 2007

Contact: Ms. Jayme Connolly
Project: **CE Windsor GW Monitoring 2007**

Client Sample ID: MW1203
Sample ID: 184428001
Matrix: Ground Water
Collect Date: 17-APR-07 09:36
Receive Date: 18-APR-07
Collector: Client
Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Carbon Analysis Federal										
<i>SW 9060 Total Organic Carbon</i>										
Total Organic Carbon #1		1.17	0.330	1.00	mg/L	1	TSM 04/20/07	0056	626801	1
Total Organic Carbon #2		1.23	0.330	1.00	mg/L	1				
Total Organic Carbon #3		1.18	0.330	1.00	mg/L	1				
Total Organic Carbon #4		1.19	0.330	1.00	mg/L	1				
Total Organic Carbon Average		1.19	0.330	1.00	mg/L	1				

Electrode Analysis Federal

SW9040B pH Federal

pH at Temp 11.5C H 7.45 0.010 0.100 SU 1 AXC2 04/18/07 1843 626560 2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9060	
2	SW846 9040B	

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : MACTEC Engineering and Consulting
Address : 511 Congress Street
Portland, Maine 04112

Report Date: May 8, 2007

Contact: Ms. Jayme Connolly
Project: **CE Windsor GW Monitoring 2007**

Client Sample ID: MW0904
Sample ID: 184428002
Matrix: Ground Water
Collect Date: 17-APR-07 11:38
Receive Date: 18-APR-07
Collector: Client
Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Carbon Analysis Federal

SW 9060 Total Organic Carbon

Total Organic Carbon #1		1.07	0.330	1.00	mg/L	1	TSM 04/20/07	0129	626801	1
Total Organic Carbon #2		1.13	0.330	1.00	mg/L	1				
Total Organic Carbon #3		1.11	0.330	1.00	mg/L	1				
Total Organic Carbon #4		1.11	0.330	1.00	mg/L	1				
Total Organic Carbon Average		1.11	0.330	1.00	mg/L	1				

Electrode Analysis Federal

SW9040B pH Federal

pH at Temp 11.9C	H	7.73	0.010	0.100	SU	1	AXC2 04/18/07	1845	626560	2
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The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9060	
2	SW846 9040B	

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : MACTEC Engineering and Consulting
Address : 511 Congress Street
Portland, Maine 04112

Report Date: May 8, 2007

Contact: Ms. Jayme Connolly
Project: **CE Windsor GW Monitoring 2007**

Client Sample ID: MW0904DUP
Sample ID: 184428003
Matrix: Ground Water
Collect Date: 17-APR-07 11:38
Receive Date: 18-APR-07
Collector: Client
Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Carbon Analysis Federal										
<i>SW 9060 Total Organic Carbon</i>										
Total Organic Carbon #1		1.27	0.330	1.00	mg/L	1	TSM 04/20/07	0231	626801	1
Total Organic Carbon #2		1.34	0.330	1.00	mg/L	1				
Total Organic Carbon #3		1.30	0.330	1.00	mg/L	1				
Total Organic Carbon #4		1.31	0.330	1.00	mg/L	1				
Total Organic Carbon Average		1.30	0.330	1.00	mg/L	1				

Electrode Analysis Federal

SW9040B pH Federal

pH at Temp 12.3C H 7.70 0.010 0.100 SU 1 AXC2 04/18/07 1847 626560 2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9060	
2	SW846 9040B	

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : MACTEC Engineering and Consulting
Address : 511 Congress Street
Portland, Maine 04112

Report Date: May 8, 2007

Contact: Ms. Jayme Connolly
Project: **CE Windsor GW Monitoring 2007**

Client Sample ID: MW0905
Sample ID: 184428004
Matrix: Ground Water
Collect Date: 18-APR-07 08:58
Receive Date: 19-APR-07
Collector: Client
Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Carbon Analysis Federal										
<i>SW 9060 Total Organic Carbon</i>										
Total Organic Carbon #1		1.45	0.330	1.00	mg/L	1	TSM 04/20/07	1617	627109	1
Total Organic Carbon #2		1.64	0.330	1.00	mg/L	1				
Total Organic Carbon #3		1.48	0.330	1.00	mg/L	1				
Total Organic Carbon #4		1.57	0.330	1.00	mg/L	1				
Total Organic Carbon Average		1.53	0.330	1.00	mg/L	1				

Electrode Analysis Federal

SW9040B pH Federal

pH at Temp 15.7C H 7.59 0.010 0.100 SU 1 AXC2 04/23/07 1902 627175 2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9060	
2	SW846 9040B	

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Certificate of Analysis

Company : MACTEC Engineering and Consulting
Address : 511 Congress Street
Portland, Maine 04112

Report Date: May 8, 2007

Contact: Ms. Jayme Connolly
Project: **CE Windsor GW Monitoring 2007**

Client Sample ID: MW0906S
Sample ID: 184428005
Matrix: Ground Water
Collect Date: 18-APR-07 10:35
Receive Date: 19-APR-07
Collector: Client
Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Carbon Analysis Federal										
<i>SW 9060 Total Organic Carbon</i>										
Total Organic Carbon #1	J	0.750	0.330	1.00	mg/L	1	TSM 04/20/07	1650	627109	1
Total Organic Carbon #2	J	0.813	0.330	1.00	mg/L	1				
Total Organic Carbon #3	J	0.739	0.330	1.00	mg/L	1				
Total Organic Carbon #4	J	0.784	0.330	1.00	mg/L	1				
Total Organic Carbon Average	J	0.772	0.330	1.00	mg/L	1				

Electrode Analysis Federal

SW9040B pH Federal

pH at Temp 15.0C H 7.73 0.010 0.100 SU 1 AXC2 04/23/07 1904 627175 2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9060	
2	SW846 9040B	

GEL LABORATORIES LLC

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Certificate of Analysis

Company : MACTEC Engineering and Consulting
Address : 511 Congress Street
Portland, Maine 04112

Report Date: May 8, 2007

Contact: Ms. Jayme Connolly
Project: **CE Windsor GW Monitoring 2007**

Client Sample ID: MW0906D
Sample ID: 184428006
Matrix: Ground Water
Collect Date: 18-APR-07 12:08
Receive Date: 19-APR-07
Collector: Client
Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Carbon Analysis Federal										
<i>SW 9060 Total Organic Carbon</i>										
Total Organic Carbon #1	J	0.902	0.330	1.00	mg/L	1	TSM 04/20/07	1744	627109	1
Total Organic Carbon #2	J	0.945	0.330	1.00	mg/L	1				
Total Organic Carbon #3	J	0.934	0.330	1.00	mg/L	1				
Total Organic Carbon #4	J	0.937	0.330	1.00	mg/L	1				
Total Organic Carbon Average	J	0.930	0.330	1.00	mg/L	1				

Electrode Analysis Federal

SW9040B pH Federal
pH at Temp 15.3C H 7.67 0.010 0.100 SU 1 AXC2 04/23/07 1906 627175 2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9060	
2	SW846 9040B	

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Certificate of Analysis

Company : MACTEC Engineering and Consulting
Address : 511 Congress Street
Portland, Maine 04112

Report Date: May 8, 2007

Contact: Ms. Jayme Connolly
Project: **CE Windsor GW Monitoring 2007**

Client Sample ID: MW0907
Sample ID: 184428007
Matrix: Ground Water
Collect Date: 18-APR-07 16:01
Receive Date: 19-APR-07
Collector: Client
Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Carbon Analysis Federal										
<i>SW 9060 Total Organic Carbon</i>										
Total Organic Carbon #1	J	0.729	0.330	1.00	mg/L	1	TSM 04/20/07	1817	627109	1
Total Organic Carbon #2	J	0.759	0.330	1.00	mg/L	1				
Total Organic Carbon #3	J	0.702	0.330	1.00	mg/L	1				
Total Organic Carbon #4	J	0.723	0.330	1.00	mg/L	1				
Total Organic Carbon Average	J	0.728	0.330	1.00	mg/L	1				

Electrode Analysis Federal

SW9040B pH Federal

pH at Temp 15.8C H 7.60 0.010 0.100 SU 1 AXC2 04/23/07 1907 627175 2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9060	
2	SW846 9040B	

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Certificate of Analysis

Company : MACTEC Engineering and Consulting
Address : 511 Congress Street
Portland, Maine 04112

Report Date: May 8, 2007

Contact: Ms. Jayme Connolly
Project: **CE Windsor GW Monitoring 2007**

Client Sample ID: MWS01
Sample ID: 184428008
Matrix: Ground Water
Collect Date: 19-APR-07 10:44
Receive Date: 20-APR-07
Collector: Client
Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Carbon Analysis Federal										
<i>SW 9060 Total Organic Carbon</i>										
Total Organic Carbon #1		1.68	0.330	1.00	mg/L	1	TSM 04/24/07	1811	627417	1
Total Organic Carbon #2		1.63	0.330	1.00	mg/L	1				
Total Organic Carbon #3		1.65	0.330	1.00	mg/L	1				
Total Organic Carbon #4		1.63	0.330	1.00	mg/L	1				
Total Organic Carbon Average		1.65	0.330	1.00	mg/L	1				

Electrode Analysis Federal

SW9040B pH Federal

pH at Temp 16.4C H 6.31 0.010 0.100 SU 1 AXC2 04/23/07 2209 627538 2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9060	
2	SW846 9040B	

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

Certificate of Analysis

Company : MACTEC Engineering and Consulting
Address : 511 Congress Street
Portland, Maine 04112

Report Date: May 8, 2007

Contact: Ms. Jayme Connolly
Project: **CE Windsor GW Monitoring 2007**

Client Sample ID: MWS02
Sample ID: 184428009
Matrix: Ground Water
Collect Date: 19-APR-07 12:05
Receive Date: 20-APR-07
Collector: Client
Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Carbon Analysis Federal										
<i>SW 9060 Total Organic Carbon</i>										
Total Organic Carbon #1		1.46	0.330	1.00	mg/L	1	TSM 04/24/07	1845	627417	1
Total Organic Carbon #2		1.46	0.330	1.00	mg/L	1				
Total Organic Carbon #3		1.43	0.330	1.00	mg/L	1				
Total Organic Carbon #4		1.39	0.330	1.00	mg/L	1				
Total Organic Carbon Average		1.44	0.330	1.00	mg/L	1				

Electrode Analysis Federal

SW9040B pH Federal

pH at Temp 16.5C H 5.53 0.010 0.100 SU 1 AXC2 04/23/07 2212 627538 2

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9060	
2	SW846 9040B	

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: May 8, 2007
Page 1 of 2

MACTEC Engineering and Consulting
511 Congress Street
Portland, Maine

Contact: Ms. Jayme Connolly

Workorder: 184428

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Carbon Analysis											
Batch	626801										
QC1201318373	184428002	DUP									
Total Organic Carbon Average		1.11		1.09	mg/L	1 ^		(+/-1.00)	TSM	04/20/07	02:03
QC1201318377	LCS										
Total Organic Carbon Average	10.0			9.49	mg/L		95	(85%-115%)		04/20/07	00:47
QC1201318372	MB										
Total Organic Carbon Average			U	0.172	mg/L					04/20/07	00:37
QC1201318375	184428002	PS									
Total Organic Carbon Average	10.0	1.11		10.7	mg/L		96	(80%-120%)		04/20/07	02:23
Batch	627109										
QC1201319181	184416003	DUP									
Total Organic Carbon Average		3.77		3.63	mg/L	4 ^		(+/-1.00)	TSM	04/20/07	14:08
QC1201319184	LCS										
Total Organic Carbon Average	10.0			9.36	mg/L		94	(85%-115%)		04/20/07	13:26
QC1201319179	MB										
Total Organic Carbon Average			U	0.006	mg/L					04/20/07	13:15
QC1201319183	184416003	PS									
Total Organic Carbon Average	10.0	3.77		13.3	mg/L		96	(80%-120%)		04/20/07	14:28
Batch	627417										
QC1201321110	184713002	DUP									
Total Organic Carbon Average		1.18	J	0.970	mg/L	19 ^		(+/-1.00)	TSM	04/25/07	00:40
QC1201319829	LCS										
Total Organic Carbon Average	10.0			10.0	mg/L		100	(85%-115%)		04/24/07	18:03
QC1201319826	MB										
Total Organic Carbon Average			U	-0.104	mg/L					04/24/07	17:52
QC1201321111	184713002	PS									
Total Organic Carbon Average	10.0	1.18		10.6	mg/L		94	(80%-120%)		04/25/07	01:00
Electrode Analysis											
Batch	626560										
QC1201318022	184428002	DUP									
pH		H	7.73	H	7.75	SU	0	(0%-10%)	AXC2	04/18/07	18:46
QC1201317779	LCS										
pH	7.00				7.05	SU	101	(95%-105%)		04/18/07	18:39
Batch	627175										
QC1201319311	184555002	DUP									
pH		H	6.78	H	6.76	SU	0	(0%-10%)	AXC2	04/23/07	19:11
QC1201319310	LCS										
pH	7.00				7.05	SU	101	(95%-105%)		04/23/07	19:01
Batch	627538										
QC1201320118	184479001	DUP									
pH		H	7.94	H	7.97	SU	0	(0%-10%)	AXC2	04/23/07	22:18
QC1201320117	LCS										
pH	7.00				7.01	SU	100	(95%-105%)		04/23/07	22:08

GEL LABORATORIES LLC

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

QC Summary

Workorder: 184428

Page 2 of 2

<u>Parmname</u>	<u>NOM</u>	<u>Sample</u>	<u>Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
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Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the detection limit
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 08-MAY-2007 14:31

GEL Laboratories LLC

Contract: HLA100107

SDG #: CE236

Carbon Analysis

Method: SW846 9060

Concentration Units:mg/L

Instrument: O-I Analytical Model 1010 Total Organic Carbon Analyzer

Parmname: Total Organic Carbon #1

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	19-APR-2007 11:12:00	XT296.rtf	9.564	10	95.6	(90%-110%)	Yes
CCV	20-APR-2007 00:17:00	XT327.rtf	10.508	10	105	(90%-110%)	Yes
CCV	20-APR-2007 03:06:00	XT336.rtf	10.613	10	106	(90%-110%)	Yes
ICV	20-APR-2007 11:23:00	XT343.rtf	9.548	10	95.5	(90%-110%)	Yes
CCV	20-APR-2007 17:25:00	XT356.rtf	9.651	10	96.5	(90%-110%)	Yes
CCV	20-APR-2007 20:53:00	XT368.rtf	9.696	10	97.0	(90%-110%)	Yes
ICV	24-APR-2007 11:49:00	XT445.rtf	9.498	10	95.0	(90%-110%)	Yes
CCV	24-APR-2007 17:32:00	XT459.rtf	10.116	10	101	(90%-110%)	Yes
CCV	24-APR-2007 21:47:00	XT471.rtf	10.312	10	103	(90%-110%)	Yes
CCV	25-APR-2007 01:44:00	XT482.rtf	10.351	10	104	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	19-APR-2007 11:22:00	XT297.rtf	0.135	1	Yes
CCB	20-APR-2007 00:27:00	XT328.rtf	0.158	1	Yes
CCB	20-APR-2007 03:17:00	XT337.rtf	0.208	1	Yes
ICB	20-APR-2007 11:34:00	XT344.rtf	-0.015	1	Yes
CCB	20-APR-2007 17:36:00	XT357.rtf	0.013	1	Yes
CCB	20-APR-2007 21:03:00	XT369.rtf	-0.007	1	Yes
ICB	24-APR-2007 11:59:00	XT446.rtf	-0.046	1	Yes
CCB	24-APR-2007 17:42:00	XT460.rtf	-0.051	1	Yes
CCB	24-APR-2007 21:57:00	XT472.rtf	-0.097	1	Yes
CCB	25-APR-2007 01:54:00	XT483.rtf	-0.092	1	Yes

Parmname: Total Organic Carbon
Average

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	19-APR-2007 11:12:00	XT296.rtf	9.564	10	95.6	(90%-110%)	Yes
CCV	20-APR-2007 00:17:00	XT327.rtf	10.508	10	105	(90%-110%)	Yes
CCV	20-APR-2007 03:06:00	XT336.rtf	10.613	10	106	(90%-110%)	Yes
ICV	20-APR-2007 11:23:00	XT343.rtf	9.548	10	95.5	(90%-110%)	Yes
CCV	20-APR-2007 17:25:00	XT356.rtf	9.651	10	96.5	(90%-110%)	Yes
CCV	20-APR-2007 20:53:00	XT368.rtf	9.696	10	97.0	(90%-110%)	Yes
ICV	24-APR-2007 11:49:00	XT445.rtf	9.498	10	95.0	(90%-110%)	Yes
CCV	24-APR-2007 17:32:00	XT459.rtf	10.116	10	101	(90%-110%)	Yes
CCV	24-APR-2007 21:47:00	XT471.rtf	10.312	10	103	(90%-110%)	Yes
CCV	25-APR-2007 01:44:00	XT482.rtf	10.351	10	104	(90%-110%)	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 08-MAY-2007 14:31

GEL Laboratories LLC

Contract: HLA100107

SDG #: CE236

Carbon Analysis

Method: SW846 9060

Concentration Units:mg/L

Instrument: O-I Analytical Model 1010 Total Organic Carbon Analyzer

Parmname: Total Organic Carbon
Average

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	19-APR-2007 11:22:00	XT297.rtf	0.135	1	Yes
CCB	20-APR-2007 00:27:00	XT328.rtf	0.158	1	Yes
CCB	20-APR-2007 03:17:00	XT337.rtf	0.208	1	Yes
ICB	20-APR-2007 11:34:00	XT344.rtf	-0.015	1	Yes
CCB	20-APR-2007 17:36:00	XT357.rtf	0.013	1	Yes
CCB	20-APR-2007 21:03:00	XT369.rtf	-0.007	1	Yes
ICB	24-APR-2007 11:59:00	XT446.rtf	-0.046	1	Yes
CCB	24-APR-2007 17:42:00	XT460.rtf	-0.051	1	Yes
CCB	24-APR-2007 21:57:00	XT472.rtf	-0.097	1	Yes
CCB	25-APR-2007 01:54:00	XT483.rtf	-0.092	1	Yes

Carbon, Total Organic

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
ICAL-01		1	TSM	19-Apr-07 10:20	XT291.rlt
ICAL-02		1	TSM	19-Apr-07 10:31	XT292.rlt
ICAL-03		1	TSM	19-Apr-07 10:41	XT293.rlt
ICAL-04		1	TSM	19-Apr-07 10:51	XT294.rlt
ICAL-05		1	TSM	19-Apr-07 11:01	XT295.rlt
ICV		1	TSM	19-Apr-07 11:12	XT296.rlt
ICB		1	TSM	19-Apr-07 11:22	XT297.rlt
TIC	626471	1	TSM	19-Apr-07 11:32	XT298.rlt
1201317547	626471	1	TSM	19-Apr-07 13:18	XT299.rlt
1201317552	626471	1	TSM	19-Apr-07 13:28	XT300.rlt
184161002	626471	1	TSM	19-Apr-07 13:36	XT301.rlt
1201317548	626471	1	TSM	19-Apr-07 14:10	XT302.rlt
1201317550	626471	1	TSM	19-Apr-07 14:30	XT303.rlt
184191002	626471	1	TSM	19-Apr-07 14:38	XT304.rlt
184191004	626471	2	TSM	19-Apr-07 15:12	XT305.rlt
184191006	626471	1	TSM	19-Apr-07 15:45	XT306.rlt
184191008	626471	1	TSM	19-Apr-07 16:19	XT307.rlt
184210002	626471	1	TSM	19-Apr-07 16:52	XT308.rlt
CCV		1	TSM	19-Apr-07 17:28	XT309.rlt
CCB		1	TSM	19-Apr-07 17:38	XT310.rlt
184210005	626471	1	TSM	19-Apr-07 17:46	XT311.rlt
184266002	626471	1	TSM	19-Apr-07 18:20	XT312.rlt
184266005	626471	1	TSM	19-Apr-07 18:53	XT313.rlt
184266010	626471	1	TSM	19-Apr-07 19:27	XT314.rlt
184266015	626471	1	TSM	19-Apr-07 20:00	XT315.rlt
CCV		1	TSM	19-Apr-07 20:36	XT316.rlt
CCB		1	TSM	19-Apr-07 20:46	XT317.rlt
184348003	626471	1	TSM	19-Apr-07 20:54	XT318.rlt
1201317549	626471	1	TSM	19-Apr-07 21:28	XT319.rlt
1201317551	626471	1	TSM	19-Apr-07 21:48	XT320.rlt
184348005	626471	1	TSM	19-Apr-07 21:56	XT321.rlt
184382001	626471	200	TSM	19-Apr-07 22:29	XT322.rlt
184395001	626471	1	TSM	19-Apr-07 22:47	XT323.rlt
184395002	626471	1	TSM	19-Apr-07 23:05	XT324.rlt
184416011	626471	1	TSM	19-Apr-07 23:23	XT325.rlt
184314001	626471	1	TSM	19-Apr-07 23:57	XT326.rlt
CCV		1	TSM	20-Apr-07 0:17	XT327.rlt
CCB		1	TSM	20-Apr-07 0:27	XT328.rlt
1201318372	626801	1	TSM	20-Apr-07 0:37	XT329.rlt
1201318377	626801	1	TSM	20-Apr-07 0:47	XT330.rlt
184428001	626801	1	TSM	20-Apr-07 0:56	XT331.rlt
184428002	626801	1	TSM	20-Apr-07 1:29	XT332.rlt
1201318373	626801	1	TSM	20-Apr-07 2:03	XT333.rlt
1201318375	626801	1	TSM	20-Apr-07 2:23	XT334.rlt
184428003	626801	1	TSM	20-Apr-07 2:31	XT335.rlt
CCV		1	TSM	20-Apr-07 3:06	XT336.rlt
CCB		1	TSM	20-Apr-07 3:17	XT337.rlt

 ** CONFIGURATION **

Analysis Mode: TOC Spl Intro: Autosampler 53
 Remote Start : OFF

Loop Size: 5 mL Actual Volume 1mL 5mL 10mL 25mL

 Loop A (uL): 1000 4900 10000 25000
 Loop B (uL): 1000 4900 10000 25000

Tray Type: 53 Vial Vial Option: Neither
 Needle Depth: 97 % Preacid Volume (uL): 200
 Wash Needle Depth: 94 % Preacid Purge Time (min:sec): 0:30

TIC TOC TC
 Blank -----
 Average: 254 1784 511 Linearization Coeff: 53000

	Sample Transfer Times (sec)							Sample Inject (all)
	Initial Fill			Loop Fill				
	Non-AS	AS	AS w/Sep	Non-AS	AS	AS w/Sep		
1mL:	6.0	4.5	3.5	1.2	1.2	1.0	4.5	
5mL:	8.1	7.0	8.0	5.1	3.0	5.5	10.3	
10mL:	14.2	12.2	11.0	10.5	10.5	11.0	16.5	
25mL:	35.0	35.0	32.0	n/a	n/a	n/a	38.0	

Analog Concentration Signal indicates TOC
 Analog Conc. Signal Timer is OFF, Timer duration (h:m:s): 00:00:00
 Min Signal Range: 0.000 ppmC, Max Signal Range: 0.000 ppmC

Alarms DISABLED
 Alarm Relay Timer is OFF, Timer duration (h:m:s): 00:00:00
 Conc. Alarm Setpoints (ppm C)

	Low	High
TIC:	0.000	0.000
TOC:	0.000	0.000
TC:	0.000	0.000

 ** CALIBRATION **

04/19/07 Thu Apr 19 11:01:52 2007

Std. #	Used	Conc. (ppm)	Volume (mL)	RF (ugC/k-cts):	1.026
1	Yes	20.000	5.000	R-Squared:	0.9990
2	Yes	10.000	5.000	Offset (cts):	107
3	Yes	1.000	5.000	Offset (ugC):	-0.111
4	Yes	0.200	5.000	Calibration Mode:	TOC
5	Yes	0.000	5.000	Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	96645	45630	4724	1502	1010	
2	-	-	-	-	-	
3	-	-	-	-	-	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

Pos/ Vial	Run Type	Rep #	Run Date	Run Time	T I C			T O C			T C		
					Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)
** Std1			Name: ICAL-01										Data File: XT291
			Remarks: 626471|1|1|WTC070419-01										
1	Std1	1	19Apr2007	10:20	-	-	-	96645	98.000	20.000	-	-	-
** Calibration:			RF (ugC/k-cts):		1.020								
			R-Squared:		1.0000								
			Offset (cts):		0								
			Offset (ugC):		0.000								
** Std2			Name: ICAL-02										Data File: XT292
			Remarks: 626471|1|1|WTC070419-02										
2	Std2	1	19Apr2007	10:31	-	-	-	45630	49.000	10.000	-	-	-
** Calibration:			RF (ugC/k-cts):		0.960								
			R-Squared:		1.0000								
			Offset (cts):		-5385								
			Offset (ugC):		5.172								
** Std3			Name: ICAL-03										Data File: XT293
			Remarks: 626471|1|1|WTC070419-03										
3	Std3	1	19Apr2007	10:41	-	-	-	4724	4.900	1.000	-	-	-
** Calibration:			RF (ugC/k-cts):		1.011								
			R-Squared:		0.9989								
			Offset (cts):		-1097								
			Offset (ugC):		1.109								
** Std4			Name: ICAL-04										Data File: XT294
			Remarks: 626471|1|1|WTC070419-04										
4	Std4	1	19Apr2007	10:51	-	-	-	1502	0.980	0.200	-	-	-
** Calibration:			RF (ugC/k-cts):		1.021								
			R-Squared:		0.9990								
			Offset (cts):		-323								
			Offset (ugC):		0.330								
** Std5			Name: ICAL-05										Data File: XT295
			Remarks: 626471|1|1|										
5	Std5	1	19Apr2007	11:01	-	-	-	1010	0.000	0.000	-	-	-
** Calibration:			RF (ugC/k-cts):		1.026								
			R-Squared:		0.9990								
			Offset (cts):		107								
			Offset (ugC):		-0.111								
** Chk2			Name: ICV										Data File: XT296
			Remarks: 626471|1|1|WTC070419-05										
6	Chk2	1	19Apr2007	11:12	-	-	-	45774	46.864	9.564	-	-	-

** Chk5	Name: ICB	Data File: XT297									
	Remarks: 626471|1|1|										
7	Chk5	1 19Apr2007 11:22	-	-	-	754	0.663	0.135	-	-	-
** Sp1	Name: TIC	Data File: XT298									
	Remarks: 626471|1|1|WIC070419-01										
8	Sp1	1 19Apr2007 11:32	-	-	-	1001	0.399	0.082	-	-	-

Pos/ Vial	Run Type	Rep #	Run Date	Run Time	T I C			T O C			T C		
					Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)
** Chk5			Name: 1201317547				Data File: XT299						
			Remarks: 626471|1|1|MB										
9	Chk5	1	19Apr2007	13:18	-	-	-	732	0.641	0.131	-	-	-
** Chk2			Name: 1201317552				Data File: XT300						
			Remarks: 626471|1|1|WTC070419-05:LCS										
10	Chk2	1	19Apr2007	13:28	-	-	-	45665	46.752	9.541	-	-	-
** Spl			Name: 184161002				Data File: XT301						
			Remarks: 626471|1|1|										
11	Spl	1	19Apr2007	13:36	-	-	-	6686	6.233	1.272	-	-	-
11	Spl	2	19Apr2007	13:44	-	-	-	6953	6.507	1.328	-	-	-
11	Spl	3	19Apr2007	13:52	-	-	-	6754	6.303	1.286	-	-	-
11	Spl	4	19Apr2007	14:02	-	-	-	6574	6.118	1.249	-	-	-
11	Spl	Avg						6741	6.291	1.284			
11	Spl	SDev						159.190					
11	Spl	%RSD						2.36					
** Spl			Name: 1201317548				Data File: XT302						
			Remarks: 626471|1|1|184161002:DUP										
12	Spl	1	19Apr2007	14:10	-	-	-	6666	6.213	1.268	-	-	-
12	Spl	2	19Apr2007	14:20	-	-	-	6948	6.502	1.327	-	-	-
12	Spl	Avg						6807	6.357	1.297			
12	Spl	SDev						199.404					
12	Spl	%RSD						2.93					
** Spl			Name: 1201317550				Data File: XT303						
			Remarks: 626471|1|1|184161002:PS										
13	Spl	1	19Apr2007	14:30	-	-	-	52113	52.852	10.786	-	-	-
** Spl			Name: 184191002				Data File: XT304						
			Remarks: 626471|1|1|										
14	Spl	1	19Apr2007	14:38	-	-	-	21383	21.316	4.350	-	-	-
14	Spl	2	19Apr2007	14:46	-	-	-	22657	22.623	4.617	-	-	-
14	Spl	3	19Apr2007	14:54	-	-	-	22042	21.992	4.488	-	-	-
14	Spl	4	19Apr2007	15:03	-	-	-	22213	22.168	4.524	-	-	-
14	Spl	Avg						22073	22.025	4.495			
14	Spl	SDev						528.430					
14	Spl	%RSD						2.39					
** Spl			Name: 184191004				Data File: XT305						
			Remarks: 626471|2|1|										
15	Spl	1	19Apr2007	15:12	-	-	-	12131	11.821	2.412	-	-	-
15	Spl	2	19Apr2007	15:20	-	-	-	12201	11.893	2.427	-	-	-
15	Spl	3	19Apr2007	15:27	-	-	-	12312	12.007	2.450	-	-	-
15	Spl	4	19Apr2007	15:37	-	-	-	12271	11.965	2.442	-	-	-
15	Spl	Avg						12228	11.921	2.433			

15	Spl	SDev					79.668			
15	Spl	%RSD					0.65			
**	Spl	Name:	184191006				Data File:	XT306		
		Remarks:	626471|1|1|							
16	Spl	1	19Apr2007 15:45	-	-	-	11950	11.635	2.375	-
16	Spl	2	19Apr2007 15:53	-	-	-	12139	11.829	2.414	-
16	Spl	3	19Apr2007 16:01	-	-	-	12085	11.774	2.403	-
16	Spl	4	19Apr2007 16:10	-	-	-	12065	11.753	2.399	-
16	Spl	Avg					12059	11.748	2.398	-
16	Spl	SDev					79.563			-
16	Spl	%RSD					0.66			-
**	Spl	Name:	184191008				Data File:	XT307		
		Remarks:	626471|1|1|							
17	Spl	1	19Apr2007 16:19	-	-	-	21031	20.955	4.276	-
17	Spl	2	19Apr2007 16:27	-	-	-	21181	21.109	4.308	-
17	Spl	3	19Apr2007 16:34	-	-	-	21199	21.127	4.312	-
17	Spl	4	19Apr2007 16:44	-	-	-	21187	21.115	4.309	-
17	Spl	Avg					21149	21.076	4.301	-
17	Spl	SDev					79.354			-
17	Spl	%RSD					0.38			-
**	Spl	Name:	184210002				Data File:	XT308		
		Remarks:	626471|1|1|							
18	Spl	1	19Apr2007 16:52	-	-	-	25266	25.301	5.163	-
18	Spl	2	19Apr2007 17:00	-	-	-	25970	26.023	5.311	-
18	Spl	3	19Apr2007 17:08	-	-	-	25875	25.926	5.291	-
18	Spl	4	19Apr2007 17:18	-	-	-	26009	26.063	5.319	-
18	Spl	Avg					25780	25.828	5.271	-
18	Spl	SDev					347.257			-
18	Spl	%RSD					1.35			-
**	Chk2	Name:	CCV				Data File:	XT309		
		Remarks:	626471|1|1|WTC070419-02							
19	Chk2	1	19Apr2007 17:28	-	-	-	47648	48.787	9.957	-
**	Chk5	Name:	CCB				Data File:	XT310		
		Remarks:	626471|1|1|							
20	Chk5	1	19Apr2007 17:38	-	-	-	867	0.779	0.159	-
**	Spl	Name:	184210005				Data File:	XT311		
		Remarks:	626471|1|1|							
21	Spl	1	19Apr2007 17:46	-	-	-	29355	29.497	6.020	-
21	Spl	2	19Apr2007 17:54	-	-	-	29853	30.008	6.124	-
21	Spl	3	19Apr2007 18:02	-	-	-	29423	29.567	6.034	-
21	Spl	4	19Apr2007 18:11	-	-	-	29483	29.628	6.047	-
21	Spl	Avg					29528	29.675	6.056	-
21	Spl	SDev					222.563			-
21	Spl	%RSD					0.75			-
**	Spl	Name:	184266002				Data File:	XT312		

Remarks: 626471|1|1|

22	Spl	1	19Apr2007 18:20	-	-	-	5817	5.342	1.090	-	-	-
22	Spl	2	19Apr2007 18:28	-	-	-	5780	5.304	1.082	-	-	-
22	Spl	3	19Apr2007 18:35	-	-	-	5554	5.072	1.035	-	-	-
22	Spl	4	19Apr2007 18:45	-	-	-	5698	5.219	1.065	-	-	-
22	Spl	Avg					5712	5.234	1.068			
22	Spl	SDev					116.632					
22	Spl	%RSD					2.04					

** Spl Name: 184266005 Data File: XT313
Remarks: 626471|1|1|

23	Spl	1	19Apr2007 18:53	-	-	-	2473	1.910	0.390	-	-	-
23	Spl	2	19Apr2007 19:01	-	-	-	2407	1.842	0.376	-	-	-
23	Spl	3	19Apr2007 19:09	-	-	-	2514	1.952	0.398	-	-	-
23	Spl	4	19Apr2007 19:19	-	-	-	2510	1.948	0.398	-	-	-
23	Spl	Avg					2476	1.913	0.390			
23	Spl	SDev					49.565					
23	Spl	%RSD					2.00					

** Spl Name: 184266010 Data File: XT314
Remarks: 626471|1|1|

24	Spl	1	19Apr2007 19:27	-	-	-	3653	3.121	0.637	-	-	-
24	Spl	2	19Apr2007 19:35	-	-	-	3469	2.932	0.598	-	-	-
24	Spl	3	19Apr2007 19:42	-	-	-	3506	2.970	0.606	-	-	-
24	Spl	4	19Apr2007 19:52	-	-	-	3595	3.061	0.625	-	-	-
24	Spl	Avg					3555	3.021	0.617			
24	Spl	SDev					83.664					
24	Spl	%RSD					2.35					

** Spl Name: 184266015 Data File: XT315
Remarks: 626471|1|1|

25	Spl	1	19Apr2007 20:00	-	-	-	29912	30.069	6.136	-	-	-
25	Spl	2	19Apr2007 20:08	-	-	-	29946	30.103	6.144	-	-	-
25	Spl	3	19Apr2007 20:16	-	-	-	30034	30.194	6.162	-	-	-
25	Spl	4	19Apr2007 20:26	-	-	-	29748	29.900	6.102	-	-	-
25	Spl	Avg					29910	30.066	6.136			
25	Spl	SDev					119.610					
25	Spl	%RSD					0.40					

** Chk2 Name: CCV Data File: XT316
Remarks: 626471|1|1|WTC070419-02

26	Chk2	1	19Apr2007 20:36	-	-	-	48828	49.998	10.204	-	-	-
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** Chk5 Name: CCB Data File: XT317
Remarks: 626471|1|1|

27	Chk5	1	19Apr2007 20:46	-	-	-	962	0.877	0.179	-	-	-
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** Spl Name: 184348003 Data File: XT318
Remarks: 626471|1|1|

28	Spl	1	19Apr2007 20:54	-	-	-	29882	30.038	6.130	-	-	-
28	Spl	2	19Apr2007 21:02	-	-	-	30329	30.496	6.224	-	-	-
28	Spl	3	19Apr2007 21:10	-	-	-	30028	30.188	6.161	-	-	-

28	Spl	4	19Apr2007 21:20	-	-	-	30717	30.895	6.305	-	-	-
28	Spl	Avg					30239	30.404	6.205			
28	Spl	SDev					369.032					
28	Spl	%RSD					1.22					

** Spl Name: 1201317549 Data File: XT319
Remarks: 626471|1|1|184384003:DUP

29	Spl	1	19Apr2007 21:28	-	-	-	29057	29.191	5.957	-	-	-
29	Spl	2	19Apr2007 21:37	-	-	-	29882	30.038	6.130	-	-	-
29	Spl	Avg					29469	29.614	6.044			
29	Spl	SDev					583.363					
29	Spl	%RSD					1.98					

** Spl Name: 1201317551 Data File: XT320
Remarks: 626471|1|1|184384003:PS

30	Spl	1	19Apr2007 21:48	-	-	-	77853	79.267	16.177	-	-	-
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** Spl Name: 184348005 Data File: XT321
Remarks: 626471|1|1|

31	Spl	1	19Apr2007 21:56	-	-	-	29857	30.012	6.125	-	-	-
31	Spl	2	19Apr2007 22:04	-	-	-	30244	30.409	6.206	-	-	-
31	Spl	3	19Apr2007 22:11	-	-	-	30281	30.447	6.214	-	-	-
31	Spl	4	19Apr2007 22:21	-	-	-	30615	30.790	6.284	-	-	-
31	Spl	Avg					30249	30.415	6.207			
31	Spl	SDev					310.198					
31	Spl	%RSD					1.03					

** Spl Name: 184382001 Data File: XT322
Remarks: 626471|200|1|

32	Spl	1	19Apr2007 22:29	-	-	-	14835	14.596	2.979	-	-	-
32	Spl	2	19Apr2007 22:39	-	-	-	15323	15.097	3.081	-	-	-
32	Spl	Avg					15079	14.846	3.030			
32	Spl	SDev					345.068					
32	Spl	%RSD					2.29					

** Spl Name: 184395001 Data File: XT323
Remarks: 626471|1|1|

33	Spl	1	19Apr2007 22:47	-	-	-	4626	4.119	0.841	-	-	-
33	Spl	2	19Apr2007 22:57	-	-	-	4319	3.804	0.776	-	-	-
33	Spl	Avg					4472	3.962	0.808			
33	Spl	SDev					217.082					
33	Spl	%RSD					4.85					

** Spl Name: 184395002 Data File: XT324
Remarks: 626471|1|1|

34	Spl	1	19Apr2007 23:05	-	-	-	3892	3.366	0.687	-	-	-
34	Spl	2	19Apr2007 23:15	-	-	-	4008	3.485	0.711	-	-	-
34	Spl	Avg					3950	3.426	0.699			
34	Spl	SDev					82.024					
34	Spl	%RSD					2.08					

** Spl Name: 184416011 Data File: XT325

											Remarks: 626471|1|1|
35	Sp1	1	19Apr2007 23:23	-	-	-	3816	3.288	0.671	-	-
35	Sp1	2	19Apr2007 23:31	-	-	-	3908	3.382	0.690	-	-
35	Sp1	3	19Apr2007 23:39	-	-	-	3855	3.328	0.679	-	-
35	Sp1	4	19Apr2007 23:48	-	-	-	3943	3.418	0.698	-	-
35	Sp1		Avg				3880	3.354	0.684		
35	Sp1		SDev				56.193				
35	Sp1		%RSD				1.45				
**	Sp1		Name: 184314001								Data File: XT326
			Remarks: 626471|1|1|								
36	Sp1	1	19Apr2007 23:57	-	-	-	21190	21.118	4.310	-	-
36	Sp1	2	20Apr2007 00:06	-	-	-	21363	21.295	4.346	-	-
36	Sp1		Avg				21276	21.207	4.328		
36	Sp1		SDev				122.329				
36	Sp1		%RSD				0.57				
**	Chk2		Name: CCV								Data File: XT327
			Remarks: 626471|1|1|WTC070419-02								
37	Chk2	1	20Apr2007 00:17	-	-	-	50279	51.487	10.508	-	-
**	Chk5		Name: CCB								Data File: XT328
			Remarks: 626471|1|1|								
38	Chk5	1	20Apr2007 00:27	-	-	-	862	0.774	0.158	-	-
**	Chk5		Name: 1201318372								Data File: XT329
			Remarks: 626801|1|1|MB								
39	Chk5	1	20Apr2007 00:37	-	-	-	931	0.845	0.172	-	-
**	Chk2		Name: 1201318377								Data File: XT330
			Remarks: 626801|1|1|WTC070419-05:LCS								
40	Chk2	1	20Apr2007 00:47	-	-	-	45435	46.516	9.493	-	-
**	Sp1		Name: 184428001								Data File: XT331
			Remarks: 626801|1|1|								
41	Sp1	1	20Apr2007 00:56	-	-	-	6175	5.709	1.165	-	-
41	Sp1	2	20Apr2007 01:03	-	-	-	6460	6.001	1.225	-	-
41	Sp1	3	20Apr2007 01:11	-	-	-	6241	5.777	1.179	-	-
41	Sp1	4	20Apr2007 01:21	-	-	-	6293	5.830	1.190	-	-
41	Sp1		Avg				6292	5.829	1.190		
41	Sp1		SDev				121.812				
41	Sp1		%RSD				1.94				
**	Sp1		Name: 184428002								Data File: XT332
			Remarks: 626801|1|1|								
42	Sp1	1	20Apr2007 01:29	-	-	-	5740	5.263	1.074	-	-
42	Sp1	2	20Apr2007 01:37	-	-	-	6026	5.556	1.134	-	-
42	Sp1	3	20Apr2007 01:45	-	-	-	5922	5.449	1.112	-	-
42	Sp1	4	20Apr2007 01:54	-	-	-	5890	5.416	1.105	-	-
42	Sp1		Avg				5894	5.421	1.106		

42	Sp1	SDev					118.236				
42	Sp1	%RSD					2.01				
**	Sp1	Name:	1201318373					Data File:	XT333		
		Remarks:	626801|1|1|184428002:DUP								
43	Sp1	1	20Apr2007 02:03	-	-	-	5651	5.171	1.055	-	-
43	Sp1	2	20Apr2007 02:12	-	-	-	5982	5.511	1.125	-	-
43	Sp1	Avg					5816	5.341	1.090		
43	Sp1	SDev					234.052				
43	Sp1	%RSD					4.02				
**	Sp1	Name:	1201318375					Data File:	XT334		
		Remarks:	626801|1|1|184428002:PS								
44	Sp1	1	20Apr2007 02:23	-	-	-	51832	52.564	10.727	-	-
**	Sp1	Name:	184428003					Data File:	XT335		
		Remarks:	626801|1|1|								
45	Sp1	1	20Apr2007 02:31	-	-	-	6689	6.236	1.273	-	-
45	Sp1	2	20Apr2007 02:39	-	-	-	7023	6.579	1.343	-	-
45	Sp1	3	20Apr2007 02:47	-	-	-	6794	6.344	1.295	-	-
45	Sp1	4	20Apr2007 02:56	-	-	-	6853	6.405	1.307	-	-
45	Sp1	Avg					6839	6.391	1.304		
45	Sp1	SDev					139.732				
45	Sp1	%RSD					2.04				
**	Chk2	Name:	CCV					Data File:	XT336		
		Remarks:	626801|1|1|WTC070419-02								
46	Chk2	1	20Apr2007 03:06	-	-	-	50781	52.002	10.613	-	-
**	Chk5	Name:	CCB					Data File:	XT337		
		Remarks:	626801|1|1|								
47	Chk5	1	20Apr2007 03:17	-	-	-	1100	1.018	0.208	-	-

 ** CALIBRATION **

04/20/07 Fri Apr 20 11:13:27 2007

Std. #	Used	Conc. (ppm)	Volume (mL)		
1	Yes	20.000	5.000	RF (ugC/k-cts):	1.013
2	Yes	10.000	5.000	R-Squared:	0.9992
3	Yes	1.000	5.000	Offset (cts):	879
4	Yes	0.200	5.000	Offset (ugC):	-0.891
5	Yes	0.000	5.000	Calibration Mode:	TOC
				Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	98551	47218	6068	2702	777	
2	-	-	-	-	-	
3	-	-	-	-	-	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

Pos/ Vial	Run Type	Rep #	Run Date	Run Time	T I C			T O C			T C		
					Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)
** Std1			Name: ICAL-01										Data File: XT338
			Remarks: 627109|1|1|WTC070420-01										
1	Std1	1	20Apr2007	10:32	-	-	-	98551	98.000	20.000	-	-	-
** Calibration:			RF (ugC/k-cts):		1.001								
			R-Squared:		1.0000								
			Offset (cts):		0								
			Offset (ugC):		0.000								
** Std2			Name: ICAL-02										Data File: XT339
			Remarks: 627109|1|1|WTC070420-02										
2	Std2	1	20Apr2007	10:42	-	-	-	47218	49.000	10.000	-	-	-
** Calibration:			RF (ugC/k-cts):		0.955								
			R-Squared:		1.0000								
			Offset (cts):		-4115								
			Offset (ugC):		3.928								
** Std3			Name: ICAL-03										Data File: XT340
			Remarks: 627109|1|1|WTC070420-03										
3	Std3	1	20Apr2007	10:52	-	-	-	6068	4.900	1.000	-	-	-
** Calibration:			RF (ugC/k-cts):		1.005								
			R-Squared:		0.9989								
			Offset (cts):		208								
			Offset (ugC):		-0.210								
** Std4			Name: ICAL-04										Data File: XT341
			Remarks: 627109|1|1|WTC070420-04										
4	Std4	1	20Apr2007	11:03	-	-	-	2702	0.980	0.200	-	-	-
** Calibration:			RF (ugC/k-cts):		1.014								
			R-Squared:		0.9990								
			Offset (cts):		929								
			Offset (ugC):		-0.943								
** Std5			Name: ICAL-05										Data File: XT342
			Remarks: 627109|1|1|										
5	Std5	1	20Apr2007	11:13	-	-	-	777	0.000	0.000	-	-	-
** Calibration:			RF (ugC/k-cts):		1.013								
			R-Squared:		0.9992								
			Offset (cts):		879								
			Offset (ugC):		-0.891								
** Chk2			Name: ICV										Data File: XT343
			Remarks: 627109|1|1|WTC070420-05										
6	Chk2	1	20Apr2007	11:23	-	-	-	47063	46.784	9.548	-	-	-

** Chk5	Name: ICB	Data File: XT344
	Remarks: 627109|1|1|	
7 Chk5	1 20Apr2007 11:34	- - - 808 -0.073 -0.015 - - -
** Sp1	Name: TIC	Data File: XT345
	Remarks: 627109|1|1|WIC070420-01	
8 Sp1	1 20Apr2007 11:44	- - - 1555 0.955 0.195 - - -

Pos/ Vial	Run Type	Rep #	Run Date	Run Time	T I C			T O C			T C		
					Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)
** Chk5			Name: 1201319179				Data File: XT346						
			Remarks: 627109|1|1|MB										
9	Chk5	1	20Apr2007	13:15	-	-	-	909	0.030	0.006	-	-	-
** Chk2			Name: 1201319184				Data File: XT347						
			Remarks: 627109|1|1|WTC070420-05:LCS										
10	Chk2	1	20Apr2007	13:26	-	-	-	46170	45.879	9.363	-	-	-
** Spl			Name: 184416003				Data File: XT348						
			Remarks: 627109|1|1|										
11	Spl	1	20Apr2007	13:34	-	-	-	19055	18.683	3.813	-	-	-
11	Spl	2	20Apr2007	13:42	-	-	-	18907	18.533	3.782	-	-	-
11	Spl	3	20Apr2007	13:50	-	-	-	18689	18.312	3.737	-	-	-
11	Spl	4	20Apr2007	13:59	-	-	-	18679	18.302	3.735	-	-	-
11	Spl	Avg						18832	18.458	3.767			
11	Spl	SDev						181.853					
11	Spl	%RSD						0.97					
** Spl			Name: 1201319181				Data File: XT349						
			Remarks: 627109|1|1|184416003:DUP										
12	Spl	1	20Apr2007	14:08	-	-	-	17975	17.589	3.590	-	-	-
12	Spl	2	20Apr2007	14:17	-	-	-	18408	18.028	3.679	-	-	-
12	Spl	Avg						18191	17.808	3.634			
12	Spl	SDev						306.177					
12	Spl	%RSD						1.68					
** Spl			Name: 1201319183				Data File: XT350						
			Remarks: 627109|1|1|184416003:PS										
13	Spl	1	20Apr2007	14:28	-	-	-	65041	65.267	13.320	-	-	-
** Spl			Name: 184416004				Data File: XT351						
			Remarks: 627109|1|1|										
14	Spl	1	20Apr2007	14:36	-	-	-	18358	17.977	3.669	-	-	-
14	Spl	2	20Apr2007	14:44	-	-	-	19026	18.654	3.807	-	-	-
14	Spl	3	20Apr2007	14:51	-	-	-	18651	18.274	3.729	-	-	-
14	Spl	4	20Apr2007	15:01	-	-	-	18783	18.407	3.757	-	-	-
14	Spl	Avg						18704	18.328	3.740			
14	Spl	SDev						278.358					
14	Spl	%RSD						1.49					
** Spl			Name: 184416007				Data File: XT352						
			Remarks: 627109|1|1|										
15	Spl	1	20Apr2007	15:09	-	-	-	6354	5.817	1.187	-	-	-
15	Spl	2	20Apr2007	15:17	-	-	-	6378	5.841	1.192	-	-	-
15	Spl	3	20Apr2007	15:25	-	-	-	6118	5.578	1.138	-	-	-
15	Spl	4	20Apr2007	15:35	-	-	-	6165	5.625	1.148	-	-	-
15	Spl	Avg						6253	5.715	1.166			

15	Spl	SDev								131.393			
15	Spl	%RSD								2.10			
** Spl Name: 184416016 Data File: XT353													
Remarks: 627109|1|1|													
16	Spl	1	20Apr2007	15:43	-	-	-	6390	5.853	1.194	-	-	-
16	Spl	2	20Apr2007	15:51	-	-	-	6457	5.921	1.208	-	-	-
16	Spl	3	20Apr2007	15:58	-	-	-	6211	5.672	1.158	-	-	-
16	Spl	4	20Apr2007	16:08	-	-	-	6071	5.530	1.129	-	-	-
16	Spl	Avg						6282	5.744	1.172			
16	Spl	SDev						174.977					
16	Spl	%RSD						2.79					
** Spl Name: 184428004 Data File: XT354													
Remarks: 627109|1|1|													
17	Spl	1	20Apr2007	16:17	-	-	-	7622	7.101	1.449	-	-	-
17	Spl	2	20Apr2007	16:24	-	-	-	8558	8.049	1.643	-	-	-
17	Spl	3	20Apr2007	16:32	-	-	-	7751	7.232	1.476	-	-	-
17	Spl	4	20Apr2007	16:42	-	-	-	8192	7.679	1.567	-	-	-
17	Spl	Avg						8030	7.515	1.534			
17	Spl	SDev						427.914					
17	Spl	%RSD						5.33					
** Spl Name: 184428005 Data File: XT355													
Remarks: 627109|1|1|													
18	Spl	1	20Apr2007	16:50	-	-	-	4240	3.675	0.750	-	-	-
18	Spl	2	20Apr2007	16:58	-	-	-	4544	3.983	0.813	-	-	-
18	Spl	3	20Apr2007	17:06	-	-	-	4189	3.624	0.739	-	-	-
18	Spl	4	20Apr2007	17:15	-	-	-	4404	3.841	0.784	-	-	-
18	Spl	Avg						4344	3.781	0.772			
18	Spl	SDev						161.700					
18	Spl	%RSD						3.72					
** Chk2 Name: CCV Data File: XT356													
Remarks: 627109|1|1|WTC070420-02													
19	Chk2	1	20Apr2007	17:25	-	-	-	47561	47.288	9.651	-	-	-
** Chk5 Name: CCB Data File: XT357													
Remarks: 627109|1|1|													
20	Chk5	1	20Apr2007	17:36	-	-	-	945	0.066	0.014	-	-	-
** Spl Name: 184428006 Data File: XT358													
Remarks: 627109|1|1|													
21	Spl	1	20Apr2007	17:44	-	-	-	4975	4.420	0.902	-	-	-
21	Spl	2	20Apr2007	17:52	-	-	-	5185	4.632	0.945	-	-	-
21	Spl	3	20Apr2007	17:59	-	-	-	5131	4.578	0.934	-	-	-
21	Spl	4	20Apr2007	18:09	-	-	-	5142	4.589	0.937	-	-	-
21	Spl	Avg						5108	4.555	0.929			
21	Spl	SDev						91.838					
21	Spl	%RSD						1.80					
** Spl Name: 184428007 Data File: XT359													

Remarks: 627109|1|1|

22	Spl	1	20Apr2007 18:17	-	-	-	4138	3.572	0.729	-	-	-
22	Spl	2	20Apr2007 18:25	-	-	-	4284	3.720	0.759	-	-	-
22	Spl	3	20Apr2007 18:33	-	-	-	4009	3.441	0.702	-	-	-
22	Spl	4	20Apr2007 18:43	-	-	-	4110	3.544	0.723	-	-	-
22	Spl		Avg				4135	3.569	0.728			
22	Spl		SDev				113.594					
22	Spl		%RSD				2.75					

** Spl Name: 184441001 Data File: XT360
Remarks: 627109|1|1|

23	Spl	1	20Apr2007 18:51	-	-	-	5454	4.905	1.001	-	-	-
23	Spl	2	20Apr2007 19:01	-	-	-	5903	5.360	1.094	-	-	-
23	Spl		Avg				5678	5.132	1.047			
23	Spl		SDev				317.491					
23	Spl		%RSD				5.59					

** Spl Name: 184441002 Data File: XT361
Remarks: 627109|1|1|

24	Spl	1	20Apr2007 19:09	-	-	-	6866	6.335	1.293	-	-	-
24	Spl	2	20Apr2007 19:19	-	-	-	8053	7.538	1.538	-	-	-
24	Spl		Avg				7459	6.937	1.416			
24	Spl		SDev				839.336					
24	Spl		%RSD				11.25					

** Spl Name: 1201319180 Data File: XT362
Remarks: 627109|1|1|184441002:DUP

25	Spl	1	20Apr2007 19:27	-	-	-	6742	6.210	1.267	-	-	-
25	Spl	2	20Apr2007 19:37	-	-	-	7947	7.430	1.516	-	-	-
25	Spl		Avg				7344	6.820	1.392			
25	Spl		SDev				852.064					
25	Spl		%RSD				11.60					

** Spl Name: 1201319182 Data File: XT363
Remarks: 627109|1|1|184441002:PS

26	Spl	1	20Apr2007 19:47	-	-	-	53209	53.281	10.874	-	-	-
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** Spl Name: 184441003 Data File: XT364
Remarks: 627109|1|1|

27	Spl	1	20Apr2007 19:55	-	-	-	5118	4.565	0.932	-	-	-
27	Spl	2	20Apr2007 20:05	-	-	-	5437	4.888	0.998	-	-	-
27	Spl		Avg				5277	4.726	0.965			
27	Spl		SDev				225.567					
27	Spl		%RSD				4.27					

** Chk5 Name: 1201319550 Data File: XT365
Remarks: 627296|1|1|MB

28	Chk5	1	20Apr2007 20:15	-	-	-	1008	0.130	0.026	-	-	-
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** Chk2 Name: 1201319553 Data File: XT366
Remarks: 627296|1|1|WTC070420-05:LCS

29	Chk2	1	20Apr2007 20:25	-	-	-	47373	47.098	9.612	-	-	-
** Spl		Name: 184545012				Data File: XT367						
		Remarks: 627296|1|1|DOC										
30	Spl	1	20Apr2007 20:33	-	-	-	4757	4.199	0.857	-	-	-
30	Spl	2	20Apr2007 20:43	-	-	-	4568	4.007	0.818	-	-	-
30	Spl	Avg				4662		4.103	0.837			
30	Spl	SDev				133.643						
30	Spl	%RSD				2.87						
** Chk2		Name: CCV				Data File: XT368						
		Remarks: 627296|1|1|WTC070420-02										
31	Chk2	1	20Apr2007 20:53	-	-	-	47780	47.510	9.696	-	-	-
** Chk5		Name: CCB				Data File: XT369						
		Remarks: 627296|1|1|										
32	Chk5	1	20Apr2007 21:03	-	-	-	845	-0.035	-0.007	-	-	-
** Spl		Name: 184545013				Data File: XT370						
		Remarks: 627296|1|1|										
33	Spl	1	20Apr2007 21:12	-	-	-	4459	3.897	0.795	-	-	-
33	Spl	2	20Apr2007 21:21	-	-	-	4523	3.962	0.808	-	-	-
33	Spl	Avg				4491		3.929	0.802			
33	Spl	SDev				45.255						
33	Spl	%RSD				1.01						
** Spl		Name: 1201319551				Data File: XT371						
		Remarks: 627296|1|1|184545013:DUP										
34	Spl	1	20Apr2007 21:30	-	-	-	4414	3.851	0.786	-	-	-
34	Spl	2	20Apr2007 21:39	-	-	-	4332	3.768	0.769	-	-	-
34	Spl	Avg				4373		3.810	0.777			
34	Spl	SDev				57.983						
34	Spl	%RSD				1.33						
** Spl		Name: 1201319552				Data File: XT372						
		Remarks: 627296|1|1|184545013:PS										
35	Spl	1	20Apr2007 21:50	-	-	-	51610	51.661	10.543	-	-	-
** Spl		Name: 184545014				Data File: XT373						
		Remarks: 627296|1|1|										
36	Spl	1	20Apr2007 21:58	-	-	-	5103	4.549	0.928	-	-	-
36	Spl	2	20Apr2007 22:07	-	-	-	5243	4.691	0.957	-	-	-
36	Spl	Avg				5173		4.620	0.943			
36	Spl	SDev				98.995						
36	Spl	%RSD				1.91						
** Spl		Name: 184545015				Data File: XT374						
		Remarks: 627296|1|1|										

37	Spl	1	20Apr2007 22:16	-	-	-	18333	17.952	3.664	-	-	-
37	Spl	2	20Apr2007 22:25	-	-	-	19830	19.468	3.973	-	-	-
37	Spl	Avg					19081	18.710	3.818			
37	Spl	SDev					1058.539					
37	Spl	%RSD					5.55					

** Spl Name: 184545016 Data File: XT375
Remarks: 627296|1|1|

38	Spl	1	20Apr2007 22:34	-	-	-	9562	9.066	1.850	-	-	-
38	Spl	2	20Apr2007 22:43	-	-	-	9951	9.460	1.931	-	-	-
38	Spl	Avg					9756	9.263	1.890			
38	Spl	SDev					275.065					
38	Spl	%RSD					2.82					

** Spl Name: 184545017 Data File: XT376
Remarks: 627296|1|1|

39	Spl	1	20Apr2007 22:52	-	-	-	7160	6.633	1.354	-	-	-
39	Spl	2	20Apr2007 23:01	-	-	-	7772	7.253	1.480	-	-	-
39	Spl	Avg					7466	6.943	1.417			
39	Spl	SDev					432.749					
39	Spl	%RSD					5.80					

** Spl Name: 184545017 Data File: XT377
Remarks: 627296|1|1|

40	Spl	1	20Apr2007 23:10	-	-	-	31281	31.068	6.340	-	-	-
40	Spl	2	20Apr2007 23:19	-	-	-	32096	31.894	6.509	-	-	-
40	Spl	Avg					31688	31.481	6.425			
40	Spl	SDev					576.292					
40	Spl	%RSD					1.82					

** Spl Name: 184545019 Data File: XT378
Remarks: 627296|1|1|

41	Spl	1	20Apr2007 23:28	-	-	-	4411	3.848	0.785	-	-	-
41	Spl	2	20Apr2007 23:37	-	-	-	4808	4.251	0.868	-	-	-
41	Spl	Avg					4609	4.050	0.826			
41	Spl	SDev					280.721					
41	Spl	%RSD					6.09					

** Spl Name: 184545020 Data File: XT379
Remarks: 627296|1|1|

42	Spl	1	20Apr2007 23:46	-	-	-	3456	2.881	0.588	-	-	-
42	Spl	2	20Apr2007 23:55	-	-	-	3984	3.416	0.697	-	-	-
42	Spl	Avg					3720	3.148	0.642			
42	Spl	SDev					373.352					
42	Spl	%RSD					10.04					

** Chk2 Name: CCV Data File: XT380
Remarks: 627296|1|1|WTC070420-02

43	Chk2	1	21Apr2007 00:06	-	-	-	46315	46.026	9.393	-	-	-
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** Chk5 Name: CCB Data File: XT381
Remarks: 627296|1|1|

44	Chk5	1	21Apr2007 00:16	-	-	-	900	0.020	0.004	-	-	-
** Spl		Name: 184545021				Data File: XT382						
		Remarks: 627296|1|1|										
45	Spl	1	21Apr2007 00:24	-	-	-	6178	5.638	1.151	-	-	-
45	Spl	2	21Apr2007 00:34	-	-	-	6481	5.945	1.213	-	-	-
45	Spl	Avg				6329		5.792	1.182			
45	Spl	SDev				214.253						
45	Spl	%RSD				3.38						
** Spl		Name: 184545022				Data File: XT383						
		Remarks: 627296|1|1|										
46	Spl	1	21Apr2007 00:42	-	-	-	52421	52.483	10.711	-	-	-
46	Spl	2	21Apr2007 00:52	-	-	-	53645	53.723	10.964	-	-	-
46	Spl	Avg				53033		53.103	10.837			
46	Spl	SDev				865.499						
46	Spl	%RSD				1.63						
** Spl		Name: 184570002				Data File: XT384						
		Remarks: 627296|1|1|										
47	Spl	1	21Apr2007 01:00	-	-	-	30793	30.574	6.240	-	-	-
47	Spl	2	21Apr2007 01:10	-	-	-	36216	36.067	7.361	-	-	-
47	Spl	Avg				33504		33.320	6.800			
47	Spl	SDev				3834.640						
47	Spl	%RSD				11.45						
** Spl		Name: 1201319556				Data File: XT385						
		Remarks: 627296|1|1|184570002:DUP										
48	Spl	1	21Apr2007 01:18	-	-	-	31559	31.350	6.398	-	-	-
48	Spl	2	21Apr2007 01:28	-	-	-	35351	35.191	7.182	-	-	-
48	Spl	Avg				33455		33.270	6.790			
48	Spl	SDev				2681.349						
48	Spl	%RSD				8.01						
** Spl		Name: 1201319557				Data File: XT386						
		Remarks: 627296|1|1|184570002:PS										
49	Spl	1	21Apr2007 01:38	-	-	-	46742	46.730	9.537	-	-	-
** Chk2		Name: CCV				Data File: XT387						
		Remarks: 627296|1|1|WTC070420-02										
50	Chk2	1	21Apr2007 01:49	-	-	-	48859	48.603	9.919	-	-	-
** Chk5		Name: CCB				Data File: XT388						
		Remarks: 627296|1|1|										
51	Chk5	1	21Apr2007 01:59	-	-	-	944	0.065	0.013	-	-	-

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	TSM	20-Apr-07 20:53	XT368.rlt
CCB		1	TSM	20-Apr-07 21:03	XT369.rlt
184545013	627296	1	TSM	20-Apr-07 21:12	XT370.rlt
1201319551	627296	1	TSM	20-Apr-07 21:30	XT371.rlt
1201319552	627296	1	TSM	20-Apr-07 21:50	XT372.rlt
184545014	627296	1	TSM	20-Apr-07 21:58	XT373.rlt
184545015	627296	1	TSM	20-Apr-07 22:16	XT374.rlt
184545016	627296	1	TSM	20-Apr-07 22:34	XT375.rlt
184545017	627296	1	TSM	20-Apr-07 22:52	XT376.rlt
184545018	627296	1	TSM	20-Apr-07 23:10	XT377.rlt
184545019	627296	1	TSM	20-Apr-07 23:28	XT378.rlt
184545020	627296	1	TSM	20-Apr-07 23:46	XT379.rlt
CCV		1	TSM	21-Apr-07 0:06	XT380.rlt
CCB		1	TSM	21-Apr-07 0:16	XT381.rlt
184545021	627296	1	TSM	21-Apr-07 0:24	XT382.rlt
184545022	627296	1	TSM	21-Apr-07 0:42	XT383.rlt
184570002	627296	1	TSM	21-Apr-07 1:00	XT384.rlt
1201319556	627296	1	TSM	21-Apr-07 1:18	XT385.rlt
1201319557	627296	1	TSM	21-Apr-07 1:38	XT386.rlt
CCV		1	TSM	21-Apr-07 1:49	XT387.rlt
CCB		1	TSM	21-Apr-07 1:59	XT388.rlt

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
ICAL-01		1	TSM	24-Apr-07 10:57	XT440.rlt
ICAL-02		1	TSM	24-Apr-07 11:07	XT441.rlt
ICAL-03		1	TSM	24-Apr-07 11:18	XT442.rlt
ICAL-04		1	TSM	24-Apr-07 11:28	XT443.rlt
ICAL-05		1	TSM	24-Apr-07 11:38	XT444.rlt
ICV		1	TSM	24-Apr-07 11:49	XT445.rlt
ICB		1	TSM	24-Apr-07 11:59	XT446.rlt
TIC	627417	1	TSM	24-Apr-07 12:09	XT447.rlt
CCV		1	TSM	24-Apr-07 13:20	XT448.rlt
CCB		1	TSM	24-Apr-07 13:30	XT449.rlt
184651001	627359	1	TSM	24-Apr-07 13:38	XT450.rlt
184651002	627359	1	TSM	24-Apr-07 14:12	XT451.rlt
184651003	627359	1	TSM	24-Apr-07 14:45	XT452.rlt
184662001	627359	1	TSM	24-Apr-07 15:19	XT453.rlt
184662002	627359	1	TSM	24-Apr-07 15:52	XT454.rlt
184670001	627359	50	TSM	24-Apr-07 16:26	XT455.rlt
184670002	627416	50	TSM	24-Apr-07 16:44	XT456.rlt
1201319823	627416	50	TSM	24-Apr-07 17:02	XT457.rlt
1201319824	627416	50	TSM	24-Apr-07 17:22	XT458.rlt
CCV		1	TSM	24-Apr-07 17:32	XT459.rlt
CCB		1	TSM	24-Apr-07 17:42	XT460.rlt
1201319826	627417	1	TSM	24-Apr-07 17:52	XT461.rlt
1201319829	627417	1	TSM	24-Apr-07 18:03	XT462.rlt
184428008	627417	1	TSM	24-Apr-07 18:11	XT463.rlt
184428009	627417	1	TSM	24-Apr-07 18:45	XT464.rlt
184570001	627417	1	TSM	24-Apr-07 19:18	XT465.rlt
1201319827	627417	1	TSM	24-Apr-07 19:36	XT466.rlt
1201319828	627417	1	TSM	24-Apr-07 19:56	XT467.rlt
184649010	627417	1	TSM	24-Apr-07 20:04	XT468.rlt
184649013	627417	1	TSM	24-Apr-07 20:38	XT469.rlt
184649016	627417	1	TSM	24-Apr-07 21:11	XT470.rlt
CCV		1	TSM	24-Apr-07 21:47	XT471.rlt
CCB		1	TSM	24-Apr-07 21:57	XT472.rlt
184649020	627417	1	TSM	24-Apr-07 22:05	XT473.rlt
184649024	627417	1	TSM	24-Apr-07 22:39	XT474.rlt
184664002	627417	1	TSM	24-Apr-07 23:12	XT475.rlt
184664003	627417	1	TSM	24-Apr-07 23:30	XT476.rlt
184664004	627417	1	TSM	24-Apr-07 23:48	XT477.rlt
184713002	627417	1	TSM	25-Apr-07 0:06	XT478.rlt
1201321110	627417	1	TSM	25-Apr-07 0:40	XT479.rlt
1201321111	627417	1	TSM	25-Apr-07 1:00	XT480.rlt
184713006	627417	1	TSM	25-Apr-07 1:08	XT481.rlt
CCV		1	TSM	25-Apr-07 1:44	XT482.rlt
CCB		1	TSM	25-Apr-07 1:54	XT483.rlt

 ** CALIBRATION **

04/24/07 Tue Apr 24 11:38:49 2007

Std. #	Used	Conc. (ppm)	Volume (mL)	RF (ugC/k-cts):	1.041
1	Yes	20.000	5.000	R-Squared:	0.9979
2	Yes	10.000	5.000	Offset (cts):	1503
3	Yes	1.000	5.000	Offset (ugC):	-1.565
4	Yes	0.200	5.000	Calibration Mode:	TOC
5	Yes	0.000	5.000	Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	96841	45766	8355	2279	1196	
2	-	-	-	-	-	
3	-	-	-	-	-	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

Pos/ Vial	Run Type	Rep #	Run Date	Run Time	T I C			T O C			T C		
					Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)
1	Blk	1	24Apr2007	10:37	-	-	-	599	-	-	-	-	-
1	Blk	2	24Apr2007	10:47	-	-	-	616	-	-	-	-	-
** Std1					Name: ICAL-01			Data File: XT440					
Remarks: 627417|1|1|WTC0704234-01													
1	Std1	1	24Apr2007	10:57	-	-	-	96841	98.000	20.000	-	-	-
** Calibration:					RF (ugC/k-cts): 1.018								
					R-Squared: 1.0000								
					Offset (cts): 0								
					Offset (ugC): 0.000								
** Std2					Name: ICAL-02			Data File: XT441					
Remarks: 627417|1|1|WTC0704234-02													
2	Std2	1	24Apr2007	11:07	-	-	-	45766	49.000	10.000	-	-	-
** Calibration:					RF (ugC/k-cts): 0.959								
					R-Squared: 1.0000								
					Offset (cts): -5309								
					Offset (ugC): 5.093								
** Std3					Name: ICAL-03			Data File: XT442					
Remarks: 627417|1|1|WTC0704234-03													
3	Std3	1	24Apr2007	11:18	-	-	-	8355	4.900	1.000	-	-	-
** Calibration:					RF (ugC/k-cts): 1.047								
					R-Squared: 0.9966								
					Offset (cts): 1945								
					Offset (ugC): -2.036								
** Std4					Name: ICAL-04			Data File: XT443					
Remarks: 627417|1|1|WTC0704234-04													
4	Std4	1	24Apr2007	11:28	-	-	-	2279	0.980	0.200	-	-	-
** Calibration:					RF (ugC/k-cts): 1.043								
					R-Squared: 0.9976								
					Offset (cts): 1654								
					Offset (ugC): -1.725								
** Std5					Name: ICAL-05			Data File: XT444					
Remarks: 627417|1|1|													
5	Std5	1	24Apr2007	11:38	-	-	-	1196	0.000	0.000	-	-	-
** Calibration:					RF (ugC/k-cts): 1.041								
					R-Squared: 0.9979								
					Offset (cts): 1503								
					Offset (ugC): -1.565								
** Chk2					Name: ICV			Data File: XT445					
Remarks: 627417|1|1|WTC0704234-05													

6	Chk2	1	24Apr2007 11:49	-	-	-	46230	46.541	9.498	-	-	-
** Chk5		Name: ICB				Data File: XT446						
		Remarks: 627417|1|1|										
7	Chk5	1	24Apr2007 11:59	-	-	-	1288	-0.224	-0.046	-	-	-
** Sp1		Name: TIC				Data File: XT447						
		Remarks: 627417|1|1|WIC0704234-01										
8	Sp1	1	24Apr2007 12:09	-	-	-	1226	0.676	0.138	-	-	-

Pos/ Vial	Run Type	Rep #	Run Date	Run Time	T I C			T O C			T C		
					Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)	Area (cts)	Mass (ugC)	Conc (ppm)
** Chk2			Name: CCV					Data File: XT448					
			Remarks: 627359|1|2|WTC0704234-02										
9	Chk2	1	24Apr2007	13:20	-	-	-	46543	46.867	9.565	-	-	-
** Chk5			Name: CCB					Data File: XT449					
			Remarks: 627359|1|2|										
10	Chk5	1	24Apr2007	13:30	-	-	-	1099	-0.421	-0.086	-	-	-
** Spl			Name: 184651001					Data File: XT450					
			Remarks: 627359|1|2|										
11	Spl	1	24Apr2007	13:38	-	-	-	50052	51.484	10.507	-	-	-
11	Spl	2	24Apr2007	13:46	-	-	-	54076	55.671	11.361	-	-	-
11	Spl	3	24Apr2007	13:54	-	-	-	52405	53.932	11.007	-	-	-
11	Spl	4	24Apr2007	14:03	-	-	-	52433	53.961	11.012	-	-	-
11	Spl	Avg						52241	53.762	10.972			
11	Spl	SDev						1655.567					
11	Spl	%RSD						3.17					
** Spl			Name: 184651002					Data File: XT451					
			Remarks: 627359|1|2|										
12	Spl	1	24Apr2007	14:12	-	-	-	70986	73.267	14.953	-	-	-
12	Spl	2	24Apr2007	14:20	-	-	-	72913	75.272	15.362	-	-	-
12	Spl	3	24Apr2007	14:27	-	-	-	71250	73.542	15.009	-	-	-
12	Spl	4	24Apr2007	14:37	-	-	-	70793	73.066	14.911	-	-	-
12	Spl	Avg						71485	73.787	15.059			
12	Spl	SDev						969.927					
12	Spl	%RSD						1.36					
** Spl			Name: 184651003					Data File: XT452					
			Remarks: 627359|1|2|										
13	Spl	1	24Apr2007	14:45	-	-	-	19301	19.485	3.977	-	-	-
13	Spl	2	24Apr2007	14:53	-	-	-	19236	19.417	3.963	-	-	-
13	Spl	3	24Apr2007	15:01	-	-	-	19028	19.201	3.918	-	-	-
13	Spl	4	24Apr2007	15:11	-	-	-	18750	18.911	3.859	-	-	-
13	Spl	Avg						19078	19.254	3.929			
13	Spl	SDev						248.177					
13	Spl	%RSD						1.30					
** Spl			Name: 184662001					Data File: XT453					
			Remarks: 627359|1|2|										
14	Spl	1	24Apr2007	15:19	-	-	-	62915	64.869	13.238	-	-	-
14	Spl	2	24Apr2007	15:27	-	-	-	62717	64.663	13.196	-	-	-
14	Spl	3	24Apr2007	15:34	-	-	-	63471	65.447	13.357	-	-	-
14	Spl	4	24Apr2007	15:44	-	-	-	64201	66.207	13.512	-	-	-
14	Spl	Avg						63326	65.296	13.326			
14	Spl	SDev						664.944					
14	Spl	%RSD						1.05					

** Spl	Name:	184662002			Data File:	XT454							
	Remarks:	627359|1|2|											
15	Spl	1	24Apr2007	15:52	-	-	-	58052	59.808	12.206	-	-	-
15	Spl	2	24Apr2007	16:00	-	-	-	58700	60.483	12.343	-	-	-
15	Spl	3	24Apr2007	16:08	-	-	-	58762	60.547	12.357	-	-	-
15	Spl	4	24Apr2007	16:18	-	-	-	57919	59.670	12.177	-	-	-
15	Spl	Avg						58358	60.127	12.271			
15	Spl	SDev						434.564					
15	Spl	%RSD						0.74					
** Spl	Name:	184670001			Data File:	XT455							
	Remarks:	627359|50|2|											
16	Spl	1	24Apr2007	16:26	-	-	-	44014	45.201	9.225	-	-	-
16	Spl	2	24Apr2007	16:36	-	-	-	43458	44.622	9.106	-	-	-
16	Spl	Avg						43736	44.911	9.166			
16	Spl	SDev						393.151					
16	Spl	%RSD						0.90					
** Spl	Name:	184670002			Data File:	XT456							
	Remarks:	627416|50|2|DOC											
17	Spl	1	24Apr2007	16:44	-	-	-	39619	40.627	8.291	-	-	-
17	Spl	2	24Apr2007	16:54	-	-	-	39562	40.568	8.279	-	-	-
17	Spl	Avg						39590	40.598	8.285			
17	Spl	SDev						40.305					
17	Spl	%RSD						0.10					
** Spl	Name:	1201319823			Data File:	XT457							
	Remarks:	627416|50|2|184670002:DUP											
18	Spl	1	24Apr2007	17:02	-	-	-	38911	39.891	8.141	-	-	-
18	Spl	2	24Apr2007	17:12	-	-	-	39269	40.263	8.217	-	-	-
18	Spl	Avg						39090	40.077	8.179			
18	Spl	SDev						253.144					
18	Spl	%RSD						0.65					
** Spl	Name:	1201319824			Data File:	XT458							
	Remarks:	627416|50|2|184670002:PS											
19	Spl	1	24Apr2007	17:22	-	-	-	88623	91.620	18.698	-	-	-
** Chk2	Name:	CCV			Data File:	XT459							
	Remarks:	627416|1|2|WTC070424-02											
20	Chk2	1	24Apr2007	17:32	-	-	-	49141	49.570	10.116	-	-	-
** Chk5	Name:	CCB			Data File:	XT460							
	Remarks:	627416|1|2|											
21	Chk5	1	24Apr2007	17:42	-	-	-	1264	-0.249	-0.051	-	-	-
** Chk5	Name:	1201319826			Data File:	XT461							
	Remarks:	627417 1 1 MB											
22	Chk5	1	24Apr2007	17:52	-	-	-	1016	-0.508	-0.104	-	-	-

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** Chk2      Name:      1201319829      Data File: XT462
Remarks: 627417|1|1|WTC070424-05:LCS

23  Chk2      1 24Apr2007 18:03      -      -      -      48585  48.992      9.998      -      -      -

** Spl      Name:      184428008      Data File: XT463
Remarks: 627417|1|1|

24  Spl      1 24Apr2007 18:11      -      -      -      8470   8.214      1.676      -      -      -
24  Spl      2 24Apr2007 18:19      -      -      -      8256   7.992      1.631      -      -      -
24  Spl      3 24Apr2007 18:27      -      -      -      8365   8.105      1.654      -      -      -
24  Spl      4 24Apr2007 18:36      -      -      -      8266   8.002      1.633      -      -      -
24  Spl      Avg      8339   8.078      1.649
24  Spl      SDev      100.091
24  Spl      %RSD      1.20

** Spl      Name:      184428009      Data File: XT464
Remarks: 627417|1|1|

25  Spl      1 24Apr2007 18:45      -      -      -      7460   7.163      1.462      -      -      -
25  Spl      2 24Apr2007 18:52      -      -      -      7434   7.136      1.456      -      -      -
25  Spl      3 24Apr2007 19:00      -      -      -      7299   6.996      1.428      -      -      -
25  Spl      4 24Apr2007 19:10      -      -      -      7134   6.824      1.393      -      -      -
25  Spl      Avg      7331   7.030      1.435
25  Spl      SDev      149.533
25  Spl      %RSD      2.04

** Spl      Name:      184570001      Data File: XT465
Remarks: 627417|1|1|

26  Spl      1 24Apr2007 19:18      -      -      -      35104  35.929      7.332      -      -      -
26  Spl      2 24Apr2007 19:28      -      -      -      36093  36.958      7.543      -      -      -
26  Spl      Avg      35598  36.444      7.438
26  Spl      SDev      699.329
26  Spl      %RSD      1.96

** Spl      Name:      1201319827      Data File: XT466
Remarks: 627417|1|1|184570001:DUP

27  Spl      1 24Apr2007 19:36      -      -      -      34531  35.333      7.211      -      -      -
27  Spl      2 24Apr2007 19:46      -      -      -      35403  36.240      7.396      -      -      -
27  Spl      Avg      34967  35.787      7.303
27  Spl      SDev      616.597
27  Spl      %RSD      1.76

** Spl      Name:      1201319828      Data File: XT467
Remarks: 627417|1|1|184570001:PS

28  Spl      1 24Apr2007 19:56      -      -      -      84747  87.587      17.875      -      -      -

** Spl      Name:      184649010      Data File: XT468
Remarks: 627417|1|1|

29  Spl      1 24Apr2007 20:04      -      -      -      20680  20.920      4.269      -      -      -
29  Spl      2 24Apr2007 20:12      -      -      -      20992  21.244      4.336      -      -      -
29  Spl      3 24Apr2007 20:20      -      -      -      20960  21.211      4.329      -      -      -
29  Spl      4 24Apr2007 20:29      -      -      -      21024  21.278      4.342      -      -      -
29  Spl      Avg      20914  21.163      4.319

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29	Spl	SDev					158.173			
29	Spl	%RSD					0.76			
**	Spl	Name:	184649013					Data File:	XT469	
		Remarks:	627417 1 1							
30	Spl	1	24Apr2007 20:38	-	-	-	5820	5.457	1.114	-
30	Spl	2	24Apr2007 20:45	-	-	-	5781	5.416	1.105	-
30	Spl	3	24Apr2007 20:53	-	-	-	5543	5.169	1.055	-
30	Spl	4	24Apr2007 21:03	-	-	-	5627	5.256	1.073	-
30	Spl	Avg					5692	5.324	1.087	
30	Spl	SDev					130.037			
30	Spl	%RSD					2.28			
**	Spl	Name:	184649016					Data File:	XT470	
		Remarks:	627417|1|1|							
31	Spl	1	24Apr2007 21:11	-	-	-	3784	3.338	0.681	-
31	Spl	2	24Apr2007 21:19	-	-	-	3592	3.138	0.641	-
31	Spl	3	24Apr2007 21:27	-	-	-	3690	3.240	0.661	-
31	Spl	4	24Apr2007 21:36	-	-	-	3541	3.085	0.630	-
31	Spl	Avg					3651	3.201	0.653	
31	Spl	SDev					107.686			
31	Spl	%RSD					2.95			
**	Chk2	Name:	CCV					Data File:	XT471	
		Remarks:	627417|1|1|WTC070424-02							
32	Chk2	1	24Apr2007 21:47	-	-	-	50063	50.530	10.312	-
**	Chk5	Name:	CCB					Data File:	XT472	
		Remarks:	627417|1|1|							
33	Chk5	1	24Apr2007 21:57	-	-	-	1049	-0.473	-0.097	-
**	Spl	Name:	184649020					Data File:	XT473	
		Remarks:	627417|1|1|							
34	Spl	1	24Apr2007 22:05	-	-	-	6730	6.404	1.307	-
34	Spl	2	24Apr2007 22:13	-	-	-	6744	6.418	1.310	-
34	Spl	3	24Apr2007 22:21	-	-	-	6584	6.252	1.276	-
34	Spl	4	24Apr2007 22:30	-	-	-	6728	6.402	1.306	-
34	Spl	Avg					6696	6.369	1.300	
34	Spl	SDev					75.337			
34	Spl	%RSD					1.12			
**	Spl	Name:	184649024					Data File:	XT474	
		Remarks:	627417|1|1|							
35	Spl	1	24Apr2007 22:39	-	-	-	4569	4.155	0.848	-
35	Spl	2	24Apr2007 22:46	-	-	-	4749	4.342	0.886	-
35	Spl	3	24Apr2007 22:54	-	-	-	4862	4.460	0.910	-
35	Spl	4	24Apr2007 23:04	-	-	-	4572	4.158	0.849	-
35	Spl	Avg					4688	4.279	0.873	
35	Spl	SDev					143.311			
35	Spl	%RSD					3.06			
**	Spl	Name:	184664002					Data File:	XT475	

Remarks: 627417|1|1|

36	Spl	1	24Apr2007 23:12	-	-	-	11712	11.588	2.365	-	-	-
36	Spl	2	24Apr2007 23:22	-	-	-	12430	12.335	2.517	-	-	-
36	Spl	Avg					12071	11.961	2.441			
36	Spl	SDev					507.703					
36	Spl	%RSD					4.21					

** Spl Name: 184664003 Data File: XT476
Remarks: 627417|1|1|

37	Spl	1	24Apr2007 23:30	-	-	-	4222	3.794	0.774	-	-	-
37	Spl	2	24Apr2007 23:40	-	-	-	4966	4.568	0.932	-	-	-
37	Spl	Avg					4594	4.181	0.853			
37	Spl	SDev					526.087					
37	Spl	%RSD					11.45					

** Spl Name: 184664004 Data File: XT477
Remarks: 627417|1|1|

38	Spl	1	24Apr2007 23:48	-	-	-	5048	4.653	0.950	-	-	-
38	Spl	2	24Apr2007 23:58	-	-	-	5706	5.338	1.089	-	-	-
38	Spl	Avg					5377	4.996	1.020			
38	Spl	SDev					465.276					
38	Spl	%RSD					8.65					

** Spl Name: 184713002 Data File: XT478
Remarks: 627417|1|1|

39	Spl	1	25Apr2007 00:06	-	-	-	6085	5.733	1.170	-	-	-
39	Spl	2	25Apr2007 00:14	-	-	-	6078	5.725	1.168	-	-	-
39	Spl	3	25Apr2007 00:22	-	-	-	6157	5.807	1.185	-	-	-
39	Spl	4	25Apr2007 00:31	-	-	-	6139	5.789	1.181	-	-	-
39	Spl	Avg					6114	5.764	1.176			
39	Spl	SDev					39.195					
39	Spl	%RSD					0.64					

** Spl Name: 1201321110 Data File: XT479
Remarks: 627417|1|1|184713002:DUP

40	Spl	1	25Apr2007 00:40	-	-	-	5210	4.822	0.984	-	-	-
40	Spl	2	25Apr2007 00:49	-	-	-	5081	4.688	0.957	-	-	-
40	Spl	Avg					5145	4.755	0.970			
40	Spl	SDev					91.217					
40	Spl	%RSD					1.77					

** Spl Name: 1201321111 Data File: XT480
Remarks: 627417|1|1|184713002:PS

41	Spl	1	25Apr2007 01:00	-	-	-	50548	52.000	10.612	-	-	-
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** Spl Name: 184713006 Data File: XT481
Remarks: 627417|1|1|

42	Spl	1	25Apr2007 01:08	-	-	-	54748	56.370	11.504	-	-	-
42	Spl	2	25Apr2007 01:16	-	-	-	59482	61.296	12.509	-	-	-
42	Spl	3	25Apr2007 01:24	-	-	-	58408	60.179	12.281	-	-	-
42	Spl	4	25Apr2007 01:33	-	-	-	59458	61.271	12.504	-	-	-
42	Spl	Avg					58024	59.779	12.200			

42	Sp1	SDev								2240.666
42	Sp1	%RSD								3.86

** Chk2 Name: CCV Data File: XT482
Remarks: 627417|1|1|WTC070424-02

43	Chk2	1	25Apr2007	01:44	-	-	-	50245	50.719	10.351	-	-	-
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** Chk2 Name: CCB Data File: XT483
Remarks: 627417|1|1|

44	Chk2	1	25Apr2007	01:54	-	-	-	1071	-0.450	-0.092	-	-	-
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pH

pH / Corrosivity LogBook

Analyst: AXC2
 Batch: 626560
 Lab SOP: GL-GC-E-008 REV# 12
 Description: pH

Type	Sample Id	Serial Number	Description
CCV	240	IMM070411-PH	PH 7 BUFFER FOR PH
LCS	1201317779	UPH060508-02	LCS BUFFER SOLUTION

Type	Sample id	Parent Sample Id	Matrix	Method	Run Date	Run Time	Parmname	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
LCS	1201317779		Ground Water		18-APR-07	18:39	pH	7.05	19.2°C	7	100.714	
LCS	1201317779		Ground Water		18-APR-07	18:39	pH 2	7.05	19.2°C	7	100.714	
SAMPLE	184348001		Surface Water	EPA 150.1	18-APR-07	18:40	pH	6.68	8.2°C			
SAMPLE	184348001		Surface Water	EPA 150.1	18-APR-07	18:40	pH 2	6.67	8.2°C			
SAMPLE	184348002		Surface Water	EPA 150.1	18-APR-07	18:41	pH	6.55	8.5°C			
SAMPLE	184348002		Surface Water	EPA 150.1	18-APR-07	18:41	pH 2	6.56	8.5°C			
DUP	1201317782	184348002	Surface Water	EPA 150.1	18-APR-07	18:42	pH	6.54	9.3°C			.153
DUP	1201317782	184348002	Surface Water	EPA 150.1	18-APR-07	18:42	pH 2	6.54	9.2°C			.305
SAMPLE	184428001		Ground Water	SW846 9040B	18-APR-07	18:43	pH	7.45	11.5°C			
SAMPLE	184428001		Ground Water	SW846 9040B	18-APR-07	18:43	pH 2	7.46	11.6°C			
CCV					18-APR-07	18:44	pH	7.05	18.1°C	7	100.714	
CCV					18-APR-07	18:44	pH 2	7.05	18.4°C	7	100.714	
SAMPLE	184428002		Ground Water	SW846 9040B	18-APR-07	18:45	pH	7.73	11.9°C			
SAMPLE	184428002		Ground Water	SW846 9040B	18-APR-07	18:45	pH 2	7.75	11.9°C			
DUP	1201318022	184428002	Ground Water	SW846 9040B	18-APR-07	18:46	pH	7.75	12.5°C			.258
DUP	1201318022	184428002	Ground Water	SW846 9040B	18-APR-07	18:46	pH 2	7.74	12.3°C			.129
SAMPLE	184428003		Ground Water	SW846 9040B	18-APR-07	18:47	pH	7.7	12.3°C			
SAMPLE	184428003		Ground Water	SW846 9040B	18-APR-07	18:47	pH 2	7.69	12.3°C			
CCV					18-APR-07	18:48	pH	7.05	18.2°C	7	100.714	
CCV					18-APR-07	18:48	pH 2	7.05	18.2°C	7	100.714	

Calibration Information:

Run Date:	18-APR-07 18:33	Standard	Observed	Theoretical	C	%Recovery	
Instrument:	PHX060						
Analyst:	AXC2						
	18:43	IMM070411-PH2	4.04	4	SU	20	101
	18:43	IMM070411-PH	7.05	7	SU	20	100.71
	18:43	UPH060703-01	10.01	10	SU	20	100.1
	18:43	UPH060809-01	1.96	2	SU	20	98
	18:43	050420-A	12.1	12	SU	20	100.83
	18:43	UPH060508-02	7.04	7	SU	20	100.57

Comments:

pH / Corrosivity LogBook

Analyst: AXC2
 Batch: 627175
 Lab SOP: GL-GC-E-008 REV# 12
 Description: pH

Type	Sample Id	Serial Number	Description
CCV	240	IMM070411-PH	PH 7 BUFFER FOR PH
LCS	1201319310	UPH070420-01	LCS BUFFER SOLUTION

Type	Sample id	Parent Sample Id	Matrix	Method	Run Date	Run Time	Parmname	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
LCS	1201319310		Drinking Water (Potable)		23-APR-07	19:01	pH	7.05	19.7°C	7	100.714	
LCS	1201319310		Drinking Water (Potable)		23-APR-07	19:01	pH 2	7.05	19.7°C	7	100.714	
SAMPLE	184428004		Ground Water	SW846 9040B	23-APR-07	19:02	pH	7.59	15.7°C			
SAMPLE	184428004		Ground Water	SW846 9040B	23-APR-07	19:02	pH 2	7.6	15.8°C			
SAMPLE	184428005		Ground Water	SW846 9040B	23-APR-07	19:04	pH	7.73	15.0°C			
SAMPLE	184428005		Ground Water	SW846 9040B	23-APR-07	19:04	pH 2	7.73	15.1°C			
SAMPLE	184428006		Ground Water	SW846 9040B	23-APR-07	19:06	pH	7.67	15.3°C			
SAMPLE	184428006		Ground Water	SW846 9040B	23-APR-07	19:06	pH 2	7.67	15.4°C			
SAMPLE	184428007		Ground Water	SW846 9040B	23-APR-07	19:07	pH	7.6	15.8°C			
SAMPLE	184428007		Ground Water	SW846 9040B	23-APR-07	19:07	pH 2	7.59	15.9°C			
CCV					23-APR-07	19:08	pH	7.05	19.7°C	7	100.714	
CCV					23-APR-07	19:08	pH 2	7.05	19.8°C	7	100.714	
SAMPLE	184555002		Drinking Water (Potable)	EPA 150.1	23-APR-07	19:09	pH	6.78	19.1°C			
SAMPLE	184555002		Drinking Water (Potable)	EPA 150.1	23-APR-07	19:09	pH 2	6.79	19.1°C			
DUP	1201319311	184555002	Drinking Water (Potable)	EPA 150.1	23-APR-07	19:11	pH	6.76	18.9°C			.295
DUP	1201319311	184555002	Drinking Water (Potable)	EPA 150.1	23-APR-07	19:11	pH 2	6.76	18.9°C			.443
CCV					23-APR-07	19:12	pH	7.05	19.7°C	7	100.714	
CCV					23-APR-07	19:12	pH 2	7.05	19.7°C	7	100.714	

Calibration Information:

Run Date:	Standard	Observed	Theoretical	C	%Recovery
23-APR-07 14:29	IMM070411-PH2	4.01	4	SU	20.7 100.25
14:29	IMM070411-PH	7.02	7	SU	20.7 100.29
14:29	UPH060703-01	10.04	10	SU	20.7 100.4
14:29	UPH060809-01	1.92	2	SU	20.7 96
14:29	070420-A	12.08	12	SU	20.7 100.67
14:29	UPH070420-01	7.02	7	SU	20.7 100.29

Comments:

pH / Corrosivity LogBook

Analyst: AXC2
 Batch: 627538
 Lab SOP: GL-GC-E-008 REV# 12
 Description: pH

Type	Sample Id	Serial Number	Description
CCV	240	IMM070411-PH	PH 7 BUFFER FOR PH
LCS	1201320117	UPH070420-01	LCS BUFFER SOLUTION

Type	Sample id	Parent Sample Id	Matrix	Method	Run Date	Run Time	Parmname	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
LCS	1201320117		Surface Water		23-APR-07	22:08	pH	7.01	20.2°C	7	100.143	
LCS	1201320117		Surface Water		23-APR-07	22:08	pH 2	7.01	20.2°C	7	100.143	
SAMPLE	184428008		Ground Water	SW846 9040B	23-APR-07	22:09	pH	6.31	16.4°C			
SAMPLE	184428008		Ground Water	SW846 9040B	23-APR-07	22:09	pH 2	6.31	16.5°C			
SAMPLE	184428009		Ground Water	SW846 9040B	23-APR-07	22:12	pH	5.53	16.5°C			
SAMPLE	184428009		Ground Water	SW846 9040B	23-APR-07	22:12	pH 2	5.54	16.5°C			
SAMPLE	184479001		Surface Water	EPA 150.1	23-APR-07	22:15	pH	7.94	16.8°C			
SAMPLE	184479001		Surface Water	EPA 150.1	23-APR-07	22:15	pH 2	7.94	16.8°C			
DUP	1201320118	184479001	Surface Water	EPA 150.1	23-APR-07	22:18	pH	7.97	17.1°C			.377
DUP	1201320118	184479001	Surface Water	EPA 150.1	23-APR-07	22:18	pH 2	7.97	17.1°C			.377
CCV					23-APR-07	22:20	pH	7.01	20.0°C	7	100.143	
CCV					23-APR-07	22:20	pH 2	7.01	20.0°C	7	100.143	
SAMPLE	184479004		Surface Water	EPA 150.1	23-APR-07	22:21	pH	7.03	16.7°C			
SAMPLE	184479004		Surface Water	EPA 150.1	23-APR-07	22:21	pH 2	7.03	16.8°C			
SAMPLE	184479007		Surface Water	EPA 150.1	23-APR-07	22:24	pH	7.93	16.8°C			
SAMPLE	184479007		Surface Water	EPA 150.1	23-APR-07	22:24	pH 2	7.93	16.9°C			
SAMPLE	184479009		Surface Water	EPA 150.1	23-APR-07	22:28	pH	7.02	17.2°C			
SAMPLE	184479009		Surface Water	EPA 150.1	23-APR-07	22:28	pH 2	7.02	17.2°C			
SAMPLE	184483001		Ground Water	EPA 150.1	23-APR-07	22:30	pH	7.02	17.4°C			
SAMPLE	184483001		Ground Water	EPA 150.1	23-APR-07	22:30	pH 2	7.02	17.5°C			
DUP	1201320120	184483001	Ground Water	EPA 150.1	23-APR-07	22:32	pH	7.02	18.3°C			0
DUP	1201320120	184483001	Ground Water	EPA 150.1	23-APR-07	22:32	pH 2	7.02	18.3°C			0
CCV					23-APR-07	22:34	pH	7.01	20.3°C	7	100.143	
CCV					23-APR-07	22:34	pH 2	7.01	20.3°C	7	100.143	
SAMPLE	184483003		Ground Water	EPA 150.1	23-APR-07	22:40	pH	7.75	17.6°C			
SAMPLE	184483003		Ground Water	EPA 150.1	23-APR-07	22:40	pH 2	7.74	17.6°C			
SAMPLE	184483007		Ground Water	EPA 150.1	23-APR-07	22:42	pH	8	17.1°C			
SAMPLE	184483007		Ground Water	EPA 150.1	23-APR-07	22:42	pH 2	8	17.2°C			
SAMPLE	184483011		Ground Water	EPA 150.1	23-APR-07	22:45	pH	8.13	17.3°C			
SAMPLE	184483011		Ground Water	EPA 150.1	23-APR-07	22:45	pH 2	8.13	17.4°C			

pH / Corrosivity LogBook

Analyst: AXC2
 Batch: 627538
 Lab SOP: GL-GC-E-008 REV# 12
 Description: pH

Type	Sample Id	Serial Number	Description
CCV	240	IMM070411-PH	PH 7 BUFFER FOR PH
LCS	1201320117	UPH070420-01	LCS BUFFER SOLUTION

Type	Sample id	Parent Sample Id	Matrix	Method	Run Date	Run Time	Parmname	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
SAMPLE	184660001		Water	SW846 9040B	23-APR-07	22:47	pH	8.37	17.7°C			
SAMPLE	184660001		Water	SW846 9040B	23-APR-07	22:47	pH 2	8.37	17.7°C			
SAMPLE	184660002		Water	SW846 9040B	23-APR-07	22:49	pH	7.85	18.3°C			
SAMPLE	184660002		Water	SW846 9040B	23-APR-07	22:49	pH 2	7.85	18.3°C			
CCV					23-APR-07	22:51	pH	7.01	20.3°C	7	100.143	
CCV					23-APR-07	22:51	pH 2	7.01	20.3°C	7	100.143	

Calibration Information:

Run Date:	Standard	Observed	Theoretical	C	%Recovery
23-APR-07 14:29					
Instrument: PHX370					
Analyst: LXW1					
	14:29 IMM070411-PH2	4.01	4	SU	20.7 100.25
	14:29 IMM070411-PH	7.02	7	SU	20.7 100.29
	14:29 UPH060703-01	10.04	10	SU	20.7 100.4
	14:29 UPH060809-01	1.92	2	SU	20.7 96
	14:29 070420-A	12.08	12	SU	20.7 100.67
	14:29 UPH070420-01	7.02	7	SU	20.7 100.29

Comments:

Miscellaneous

COMPANY - WIDE NONCONFORMANCE REPORT

Mo.Day Yr. 25-APR-07	Division: Federal	Quality Criteria: Specifications	Type: Process
Instrument Type: ELECTRODE	Test / Method: EPA 150.1	Matrix Type: Drinking Water	Client Code: HLAI, TIMM
Batch ID: 627175	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 184428(CE236),184555			
Application Issues: Sample Analyzed out of Holding			
Specification and Requirements Nonconformance Description:		NRG Disposition:	
1. Sample Analyzed out of Holding: 184428 007		1.The following sample was analyzed out of holding due to instrument malfunction.	

Originator's Name:
 Ashley Carr 25-APR-07

Data Validator/Group Leader:
 Elzbieta Szulc 01-MAY-07

Quality Review:

Director:

RADIOLOGICAL ANALYSIS

Radiochemistry Case Narrative
MACTEC Engineering and Consulting (HLAI)
SDG CE236

Method/Analysis Information

Product: Alphaspec Th, Liquid
Analytical Method: DOE EML HASL-300, Th-01-RC Modified
Analytical Batch Number: 628506

Sample ID	Client ID
184428001	MW1203
184428002	MW0904
184428003	MW0904DUP
184428004	MW0905
184428005	MW0906S
184428006	MW0906D
184428007	MW0907
184428008	MWS01
184428009	MWS02
1201322488	Method Blank (MB)
1201322489	184428002(MW0904) Sample Duplicate (DUP)
1201322490	Laboratory Control Sample (LCS)

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-038 REV# 10.

Calibration Information:

Calibration Information

All initial and continuing calibration requirements have been met.

Standards Information

Standard solution(s) for these analyses are NIST traceable and used before the expiration date(s).

Sample Geometry

All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:**Blank Information**

The blank volume is representative of the sample volume in this batch.

Designated QC

The following sample was used for QC: 184428002 (MW0904).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

Preparation Information

All preparation criteria have been met for these analyses.

Sample Re-prep/Re-analysis

Samples 184428001 (MW1203) and 184428002 (MW0904) were recounted due to a suspected false positive.

Miscellaneous Information:**NCR Documentation**

Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A nonconformance report (NCR) was not generated for this SDG.

Manual Integration

No manual integrations were performed on data in this batch.

Additional Comments

Additional comments were not required for this sample set.

Qualifier information

Manual qualifiers were not required.

Certification Statement

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

Review Validation:

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

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

Reviewer/Date: *Ramona Wellen* 5/10/07

SAMPLE DATA SUMMARY

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

HLAI003 MACTEC Engineering and Consulting

Client SDG: CE236 GEL Work Order: 184428

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- H Analytical holding time was exceeded
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- ND The analyte concentration is not detected above the detection limit.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by _____

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : MACTEC Engineering and Consulting
 Address : 511 Congress Street
 Portland, Maine 04112
 Contact: Ms. Jayme Connolly
 Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID:	MW1203	Project:	HLAI00107
Sample ID:	184428001	Client ID:	HLAI003
Matrix:	Ground Water		
Collect Date:	17-APR-07		
Receive Date:	18-APR-07		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Th, Liquid</i>													
Thorium-228		-0.0615	+/-0.0737	0.279	+/-0.0746	1.00	pCi/L		BXJ1	05/09/07	1648	628506	1
Thorium-230		0.0495	+/-0.0873	0.164	+/-0.0879	1.00	pCi/L						
Thorium-232		0.0296	+/-0.058	0.0887	+/-0.0583	1.00	pCi/L						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	SXJ1	04/21/07	0645	626699
SW846 3005A	ICP-TRACE SW846 3005A	SXJ1	04/23/07	0900	626723

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Th-01-RC Modified
2	DOE EML HASL-300, Th-01-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th, Liquid	96	(15%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals—%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : MACTEC Engineering and Consulting

Address : 511 Congress Street

Portland, Maine 04112

Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MW1203
Sample ID: 184428001

Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more

ND Analyte concentration is not detected above the detection limit

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy—Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

Z Paint Filter Test—Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

d 5-day BOD—The 2:1 depletion requirement was not met for this sample

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : MACTEC Engineering and Consulting
 Address : 511 Congress Street
 Portland, Maine 04112
 Contact: Ms. Jayme Connolly
 Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID:	MW0904	Project:	HLAI00107
Sample ID:	184428002	Client ID:	HLAI003
Matrix:	Ground Water		
Collect Date:	17-APR-07		
Receive Date:	18-APR-07		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Th, Liquid</i>													
Thorium-228		0.0264	+/-0.148	0.333	+/-0.148	1.00	pCi/L		BXJ1	05/09/07	1648	628506	1
Thorium-230		0.191	+/-0.171	0.210	+/-0.175	1.00	pCi/L						
Thorium-232		-0.0165	+/-0.0229	0.190	+/-0.0231	1.00	pCi/L						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	SXJ1	04/21/07	0645	626699
SW846 3005A	ICP-TRACE SW846 3005A	SXJ1	04/23/07	0900	626723

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Th-01-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th, Liquid	86	(15%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals—%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the detection limit

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Certificate of Analysis

Company : MACTEC Engineering and Consulting

Address : 511 Congress Street

Portland, Maine 04112

Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MW0904
Sample ID: 184428002

Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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- R Sample results are rejected
 - U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
 - UI Gamma Spectroscopy—Uncertain identification
 - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
 - Y QC Samples were not spiked with this compound
 - Z Paint Filter Test—Particulates passed through the filter, however no free liquids were observed.
 - ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
 - d 5-day BOD—The 2:1 depletion requirement was not met for this sample
 - h Preparation or preservation holding time was exceeded
- The above sample is reported on an "as received" basis.

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 Contact: Ms. Jayme Connolly
 Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID:	MW0904DUP	Project:	HLAI00107
Sample ID:	184428003	Client ID:	HLAI003
Matrix:	Ground Water		
Collect Date:	17-APR-07		
Receive Date:	18-APR-07		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Th, Liquid</i>													
Thorium-228		0.0204	+/-0.0617	0.157	+/-0.0618	1.00	pCi/L		BXJ1	05/02/07	1216	628506	1
Thorium-230		-0.0328	+/-0.0651	0.155	+/-0.0653	1.00	pCi/L						
Thorium-232		0.00129	+/-0.0702	0.213	+/-0.0702	1.00	pCi/L						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	SXJ1	04/21/07	0645	626699
SW846 3005A	ICP-TRACE SW846 3005A	SXJ1	04/23/07	0900	626723

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Th-01-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th, Liquid	86	(15%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals—%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the detection limit

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Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MW0904DUP
Sample ID: 184428003

Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy—Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

Z Paint Filter Test—Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

d 5-day BOD—The 2:1 depletion requirement was not met for this sample

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MW0905
 Sample ID: 184428004
 Matrix: Ground Water
 Collect Date: 18-APR-07
 Receive Date: 19-APR-07
 Collector: Client

Project: HLAI00107
 Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Th, Liquid</i>													
Thorium-228		0.0928	+/-0.171	0.325	+/-0.173	1.00	pCi/L		BXJ1	05/02/07	1519	628506	1
Thorium-230		0.0487	+/-0.0831	0.111	+/-0.0837	1.00	pCi/L						
Thorium-232		-0.0265	+/-0.030	0.225	+/-0.0306	1.00	pCi/L						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	SXJ1	04/24/07	0930	627202
SW846 3005A	ICP-TRACE SW846 3005A	SXJ1	04/24/07	0930	627238

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Th-01-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th, Liquid	80	(15%-125%)

Notes:

The Qualifiers in this report are defined as follows :

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals—%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the detection limit

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Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MW0905
Sample ID: 184428004

Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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- R Sample results are rejected
 - U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
 - UI Gamma Spectroscopy—Uncertain identification
 - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
 - Y QC Samples were not spiked with this compound
 - Z Paint Filter Test—Particulates passed through the filter, however no free liquids were observed.
 - ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
 - d 5-day BOD—The 2:1 depletion requirement was not met for this sample
 - h Preparation or preservation holding time was exceeded
- The above sample is reported on an "as received" basis.

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 Contact: Ms. Jayme Connolly
 Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID:	MW0906S	Project:	HLAI00107
Sample ID:	184428005	Client ID:	HLAI003
Matrix:	Ground Water		
Collect Date:	18-APR-07		
Receive Date:	19-APR-07		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Th, Liquid</i>													
Thorium-228		-0.0732	+/-0.139	0.372	+/-0.140	1.00	pCi/L		BXJ1	05/02/07	1519	628506	1
Thorium-230		0.0438	+/-0.0906	0.184	+/-0.091	1.00	pCi/L						
Thorium-232		0.0302	+/-0.0592	0.0905	+/-0.0595	1.00	pCi/L						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	SXJ1	04/24/07	0930	627202
SW846 3005A	ICP-TRACE SW846 3005A	SXJ1	04/24/07	0930	627238

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Th-01-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th, Liquid	93	(15%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals—%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the detection limit

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Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MW0906S
Sample ID: 184428005

Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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- R Sample results are rejected
 - U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
 - UI Gamma Spectroscopy—Uncertain identification
 - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
 - Y QC Samples were not spiked with this compound
 - Z Paint Filter Test—Particulates passed through the filter, however no free liquids were observed.
 - ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
 - d 5-day BOD—The 2:1 depletion requirement was not met for this sample
 - h Preparation or preservation holding time was exceeded
- The above sample is reported on an "as received" basis.

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 Contact: Ms. Jayme Connolly
 Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID:	MW0906D	Project:	HLAI00107
Sample ID:	184428006	Client ID:	HLAI003
Matrix:	Ground Water		
Collect Date:	18-APR-07		
Receive Date:	19-APR-07		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Th, Liquid</i>													
Thorium-228		-0.011	+/-0.0674	0.225	+/-0.0675	1.00	pCi/L		BXJ1	05/03/07	0944	628506	1
Thorium-230		0.0154	+/-0.0728	0.193	+/-0.0729	1.00	pCi/L						
Thorium-232		0.00	+/-0.062	0.0949	+/-0.062	1.00	pCi/L						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	SXJ1	04/24/07	0930	627202
SW846 3005A	ICP-TRACE SW846 3005A	SXJ1	04/24/07	0930	627238

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Th-01-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th, Liquid	93	(15%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals—%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the detection limit

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Address : 511 Congress Street

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Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MW0906D
Sample ID: 184428006

Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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- R Sample results are rejected
 - U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
 - UI Gamma Spectroscopy—Uncertain identification
 - X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
 - Y QC Samples were not spiked with this compound
 - Z Paint Filter Test—Particulates passed through the filter, however no free liquids were observed.
 - ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
 - d 5-day BOD—The 2:1 depletion requirement was not met for this sample
 - h Preparation or preservation holding time was exceeded
- The above sample is reported on an "as received" basis.

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Company : MACTEC Engineering and Consulting
 Address : 511 Congress Street
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 Contact: Ms. Jayme Connolly
 Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID:	MW0907	Project:	HLAI00107
Sample ID:	184428007	Client ID:	HLAI003
Matrix:	Ground Water		
Collect Date:	18-APR-07		
Receive Date:	19-APR-07		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Th, Liquid</i>													
Thorium-228		0.0192	+/-0.122	0.268	+/-0.122	1.00	pCi/L		BXJ1	05/03/07	0944	628506	1
Thorium-230		0.0197	+/-0.0516	0.122	+/-0.0517	1.00	pCi/L						
Thorium-232		-0.0061	+/-0.0512	0.122	+/-0.0513	1.00	pCi/L						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	SXJ1	04/24/07	0930	627202
SW846 3005A	ICP-TRACE SW846 3005A	SXJ1	04/24/07	0930	627238

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Th-01-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th, Liquid	116	(15%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals—%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the detection limit

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Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MW0907
Sample ID: 184428007

Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy—Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

Z Paint Filter Test—Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

d 5-day BOD—The 2:1 depletion requirement was not met for this sample

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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 Contact: Ms. Jayme Connolly
 Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID:	MWS01	Project:	HLAI00107
Sample ID:	184428008	Client ID:	HLAI003
Matrix:	Ground Water		
Collect Date:	19-APR-07		
Receive Date:	20-APR-07		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Th, Liquid</i>													
Thorium-228		-0.0398	+/-0.125	0.340	+/-0.126	1.00	pCi/L		BXJ1	05/03/07	0944	628506	1
Thorium-230		0.065	+/-0.118	0.226	+/-0.119	1.00	pCi/L						
Thorium-232		-0.00515	+/-0.100	0.270	+/-0.100	1.00	pCi/L						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	SXJ1	04/24/07	0930	627497
SW846 3005A	ICP-TRACE SW846 3005A	SXJ1	04/24/07	0930	627448

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Th-01-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th, Liquid	89	(15%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals—%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the detection limit

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Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MWS01
Sample ID: 184428008

Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
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R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy—Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

Z Paint Filter Test—Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

d 5-day BOD—The 2:1 depletion requirement was not met for this sample

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Company : MACTEC Engineering and Consulting
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 Contact: Ms. Jayme Connolly
 Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID:	MWS02	Project:	HLAI00107
Sample ID:	184428009	Client ID:	HLAI003
Matrix:	Ground Water		
Collect Date:	19-APR-07		
Receive Date:	20-APR-07		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
Rad Alpha Spec Analysis													
<i>Alphaspec Th, Liquid</i>													
Thorium-228		0.0939	+/-0.189	0.362	+/-0.190	1.00	pCi/L		BXJ1	05/03/07	0944	628506	1
Thorium-230		0.234	+/-0.198	0.242	+/-0.204	1.00	pCi/L						
Thorium-232		0.00	+/-0.072	0.110	+/-0.072	1.00	pCi/L						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005 PREP	SXJ1	04/24/07	0930	627497
SW846 3005A	ICP-TRACE SW846 3005A	SXJ1	04/24/07	0930	627448

The following Analytical Methods were performed

Method	Description
1	DOE EML HASL-300, Th-01-RC Modified

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
Thorium-229 Tracer	Alphaspec Th, Liquid	79	(15%-125%)

Notes:

The Qualifiers in this report are defined as follows :

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- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Metals—%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- J Value is estimated
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the detection limit

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Contact: Ms. Jayme Connolly

Project: CE Windsor GW Monitoring 2007

Report Date: May 10, 2007

Client Sample ID: MWS02
Sample ID: 184428009

Project: HLAI00107
Client ID: HLAI003

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd
-----------	-----------	--------	-------------	----	-----	----	-------	----	---------	------	------	-------	-----

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy—Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

Z Paint Filter Test—Particulates passed through the filter, however no free liquids were observed.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL

d 5-day BOD—The 2:1 depletion requirement was not met for this sample

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

QUALITY CONTROL DATA

GEL LABORATORIES LLC

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

QC Summary

Report Date: May 10, 2007
Page 1 of 2

Client : MACTEC Engineering and Consulting
511 Congress Street

Contact: Portland, Maine
Ms. Jayme Connolly

Workorder: 184428

Parmname	NOM	Sample Qual	QC	Units	RER	REC%	Range	Anlst	Date	Time
Rad Alpha Spec										
Batch	628506									
QC1201322489 184428002 DUP										
Thorium-228		0.0264	-0.00965	pCi/L	430		(0% - 100%)	BXJ1	05/03/07	10:10
	Uncert:	+/-0.148	+/-0.0963							
	TPU:	+/-0.148	+/-0.0963							
Thorium-230		0.191	0.124	pCi/L	43		(0% - 100%)			
	Uncert:	+/-0.171	+/-0.127							
	TPU:	+/-0.175	+/-0.129							
Thorium-232		-0.0165	0.0163	pCi/L	32800		(0% - 100%)			
	Uncert:	+/-0.0229	+/-0.0648							
	TPU:	+/-0.0231	+/-0.0649							
QC1201322490 LCS										
Thorium-228			4.06	pCi/L			(75%-125%)			
	Uncert:		+/-0.678							
	TPU:		+/-1.01							
Thorium-230			1.49	pCi/L			(75%-125%)			
	Uncert:		+/-0.410							
	TPU:		+/-0.495							
Thorium-232	4.03		4.21	pCi/L		104	(75%-125%)			
	Uncert:		+/-0.678							
	TPU:		+/-1.03							
QC1201322488 MB										
Thorium-228			-0.0537	pCi/L						
	Uncert:		+/-0.0679							
	TPU:		+/-0.068							
Thorium-230			0.0621	pCi/L						
	Uncert:		+/-0.0833							
	TPU:		+/-0.0841							
Thorium-232			-0.00581	pCi/L						
	Uncert:		+/-0.0646							
	TPU:		+/-0.0646							

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis

GEL LABORATORIES LLC

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QC Summary

Workorder: 184428

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RER	REC%	Range	Anlst	Date	Time
D		Results are reported from a diluted aliquot of the sample								
E		Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria								
H		Analytical holding time was exceeded								
J		Value is estimated								
N/A		Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more								
ND		Analyte concentration is not detected above the detection limit								
R		Sample results are rejected								
U		Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.								
UI		Gamma Spectroscopy--Uncertain identification								
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
Y		QC Samples were not spiked with this compound								
Z		Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.								
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL								
d		5-day BOD--The 2:1 depletion requirement was not met for this sample								
h		Preparation or preservation holding time was exceeded								

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

RAW DATA

Radiochemistry Batch Checklist, Rev 6

Batch# 628506 Product: TH Date: 5/10/07

Criteria:	Yes	No	Comments
Sample Solids are less than or equal to 100 mg for GAB.			NA
If activity less 10* MDA, error is 150% or less of sample activity. If greater 10* MDA, error is 40% or less. If below the MDA, error is okay.	/		
Instrument source check is within limits. Instrument bkg check is within limits.	/		
Method RDL has been met.	/		
If duplicate activities are less 5* MDA, then rpd is 100% or less. If greater 5* MDA, then rpd 20% or less. If below the MDA, the rpd is 0%.	/		
Or meets the client's required RER acceptance criteria.	/		
Tracer yield is 15-125%. Carrier yield 25-125%.	/		
Or meets the client's contract acceptance criteria.	/		
Method blank is less than the RDL. (If rad samples, <5% of lowest activity)	/		
Sample was run within hold time.	/		
Special requirements page checked	/		
Sample was correctly preserved if required.	/		
Smears Taken for Radioactive batches.			NA
Method Spike and LCS are within 75-125% or meets the client's contract acceptance criteria.	/		
No blank spaces on data forms.	/		
All lineouts initialed and dated.	/		
No transcription errors are apparent.	/		
QC data entered into QC database.	/		
Batch entered into Case Narrative.	/		
Batch non-conformances completed if applicable.			NA
Aliquot Correction completed if required.			NA

GEL Laboratories, LLC

1/2/2007

Primary Review Performed By: [Signature]

Secondary Review Performed By: [Signature] 5/10/07

4/30-5/11

HCAI

Sub

Client Due: 11th May

Thorium Que Sheet

25-APR-07

Batch #: 628506 Analyst: BXJ1 Minimum Due Date: 30-APR-07
 Tracer Isotope: Th-229 Tracer Code: 0486-L Expiration Date: 5/15/07 Vol: 0.1ml
 LCS Isotope: Th-232 LCS Code: 1066-B Expiration Date: 3/7/08 Vol: 0.1ml
 Spike Isotope: Th-232 Spike Code: N/A Expiration Date: N/A Vol: N/A
 Prep Date: 4/27/07 Initials: DL Pipet ID: 1828854 Balance ID: 16750207

Witness: N/A

759

Sample ID	Client Description	Type	Hazard Code	Min CRDL	Matrix	Client	Collection Date	Wet/ Dry		Th Det #
								Label #	Aliquot (g/l)	
184428001-1	MW1203	SAMPLE		1 pCi/L	GROUND WATER	HLAI003	17-APR-07	21	0.200	43 (14)
184428002-1	MW0904	SAMPLE		1 pCi/L	GROUND WATER	HLAI003	17-APR-07	22	0.200	44 (15)
184428003-1	MW0904DUP	SAMPLE		1 pCi/L	GROUND WATER	HLAI003	17-APR-07	23	0.200	45
184428004-1	MW0905	SAMPLE		1 pCi/L	GROUND WATER	HLAI003	18-APR-07	24	0.200	32
184428005-1	MW0906S	SAMPLE		1 pCi/L	GROUND WATER	HLAI003	18-APR-07	25	0.200	33
184428006-1	MW0906D	SAMPLE		1 pCi/L	GROUND WATER	HLAI003	18-APR-07	26	0.200	21
184428007-1	MW0907	SAMPLE		1 pCi/L	GROUND WATER	HLAI003	18-APR-07	27	0.200	22
184428008-1	MWS01	SAMPLE		1 pCi/L	GROUND WATER	HLAI003	19-APR-07	28	0.200	23
184428009-1	MWS02	SAMPLE		1 pCi/L	GROUND WATER	HLAI003	19-APR-07	29	0.200	24
1201322488-1	MB for batch 628506	MB		1 pCi/L	GROUND WATER	QC ACCOUNT		30	0.200	71
1201322489-1	MW0904(184428002DUP)	DUP		1 pCi/L	GROUND WATER	QC ACCOUNT	17-APR-07	31	0.200	72
1201322490-1	LCS for batch 628506	LCS		1 pCi/L	GROUND WATER	QC ACCOUNT		32	0.200	73

PD 5/9/07

Choose SOP Used: GL-RAD-A-038
 GL-RAD-A-045
 GL-RAD-A-043
 GL-RAD-A-032

Solid Sample Dissolution by: LEACH or DIGESTION
 Circle One B
5/11/07

Data Reviewed By: [Signature]
5/11/07

GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

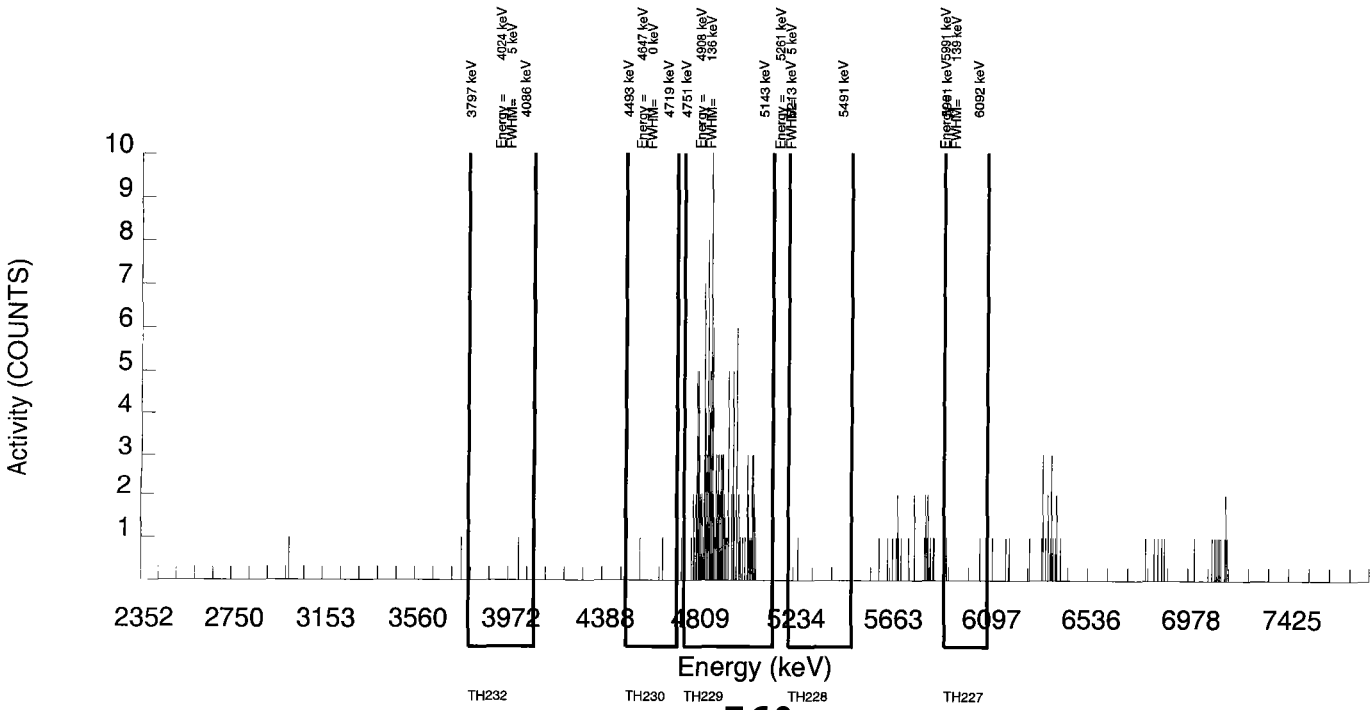
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NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	1.760	0.240	0.4899	54.75400	2.21E-01	3.56E-01	6.02E-01	3.53E-01
TH-228	5363.000	-2.030	2.880	1.6971	99.94000	-6.15E-02	7.46E-02	2.79E-01	7.37E-02
TH229	4900.000	138.520	0.480	0.6928	99.52000	4.12E+00	1.06E+00	1.65E-01	6.87E-01
TH-230	4625.000	1.673	0.480	0.6928	100.0000	4.95E-02	8.79E-02	1.64E-01	8.73E-02
TH-232	3972.000	1.000	0.000	0.0000	100.0000	2.96E-02	5.83E-02	8.87E-02	5.80E-02

NOTE: Corrections made to TH-228

Handwritten signature: QDS/10/A



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 17-APR-2007 00:00:00

SAMPLE ID : S0184428002_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :61581
AVERAGE %EFFICIENCY :31.7024
% YIELD : 86.171

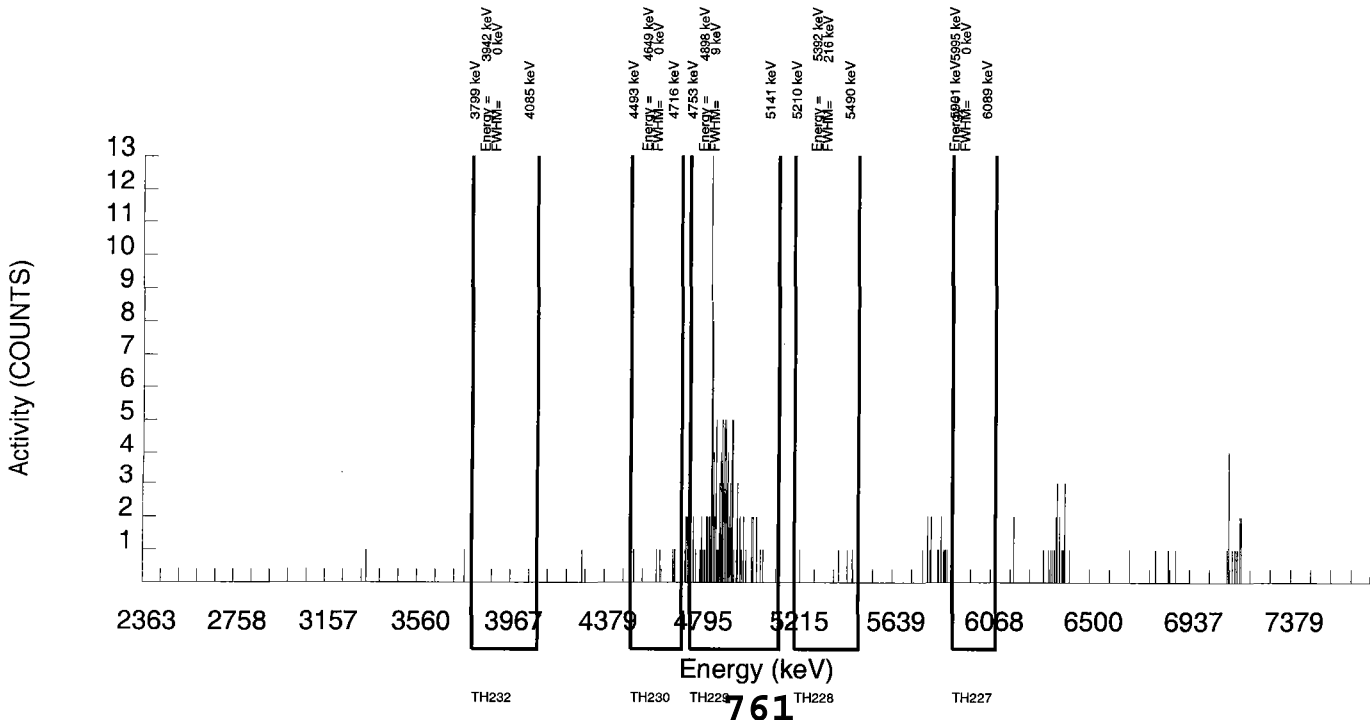
COUNT DATE: 9-MAY-2007 16:48:09
ELAPSED LIVE TIME(SEC): 14399.99
ANALYST :BXJ1

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NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	-0.720	0.720	0.8485	54.75400	-1.05E-01	1.21E-01	8.91E-01	1.19E-01
TH-228	5363.000	0.751	3.120	1.7664	99.94000	2.64E-02	1.48E-01	3.33E-01	1.48E-01
TH229	4900.000	119.280	0.720	0.8485	99.52000	4.12E+00	1.13E+00	2.11E-01	7.42E-01
TH-230	4625.000	5.551	0.720	0.8485	100.0000	1.91E-01	1.75E-01	2.10E-01	1.71E-01
TH-232	3972.000	-0.480	0.480	0.6928	100.0000	-1.65E-02	2.31E-02	1.90E-01	2.29E-02

NOTE: Corrections made to TH-228



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 17-APR-2007 00:00:00

SAMPLE ID : S0184428003_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :67601
AVERAGE %EFFICIENCY :33.8080
% YIELD : 85.925

COUNT DATE: 2-MAY-2007 12:16:22
ELAPSED LIVE TIME(SEC): 14399.99
ANALYST :BXJ1

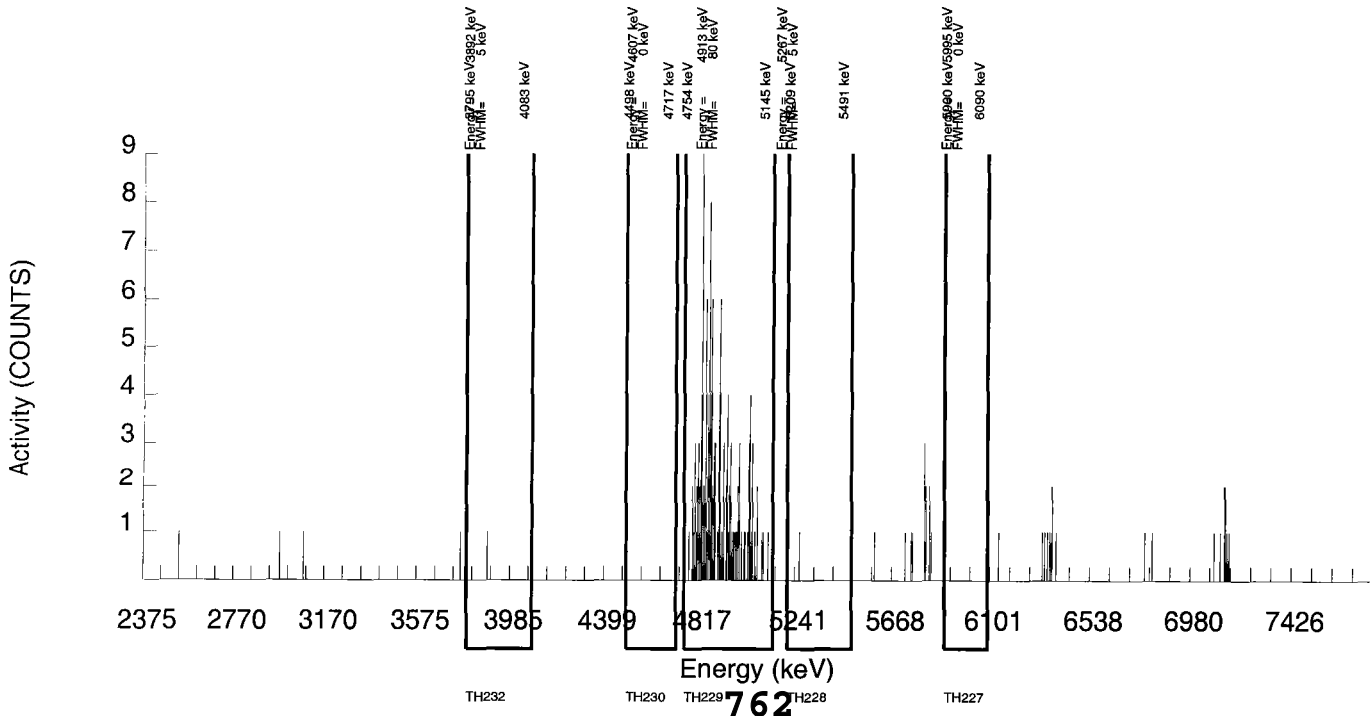
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NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	-0.240	0.240	0.4899	54.75400	-2.52E-02	4.97E-02	5.04E-01	4.94E-02
TH-228	5363.000	0.621	0.240	0.4899	99.94000	2.04E-02	6.18E-02	1.57E-01	6.17E-02
TH229	4900.000	126.840	2.160	1.4697	99.52000	4.12E+00	1.11E+00	2.72E-01	7.24E-01
TH-230	4625.000	-1.015	0.240	0.4899	100.0000	-3.28E-02	6.53E-02	1.55E-01	6.51E-02
TH-232	3972.000	0.040	0.960	0.9798	100.0000	1.29E-03	7.02E-02	2.13E-01	7.02E-02

NOTE: Corrections made to TH-228

Handwritten signature: QDS/9/A



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 18-APR-2007 00:00:00

SAMPLE ID : S0184428004_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :67041
AVERAGE %EFFICIENCY :31.8125
% YIELD : 79.998

COUNT DATE: 2-MAY-2007 15:19:17
ELAPSED LIVE TIME(SEC): 14399.99
ANALYST :BXJ1

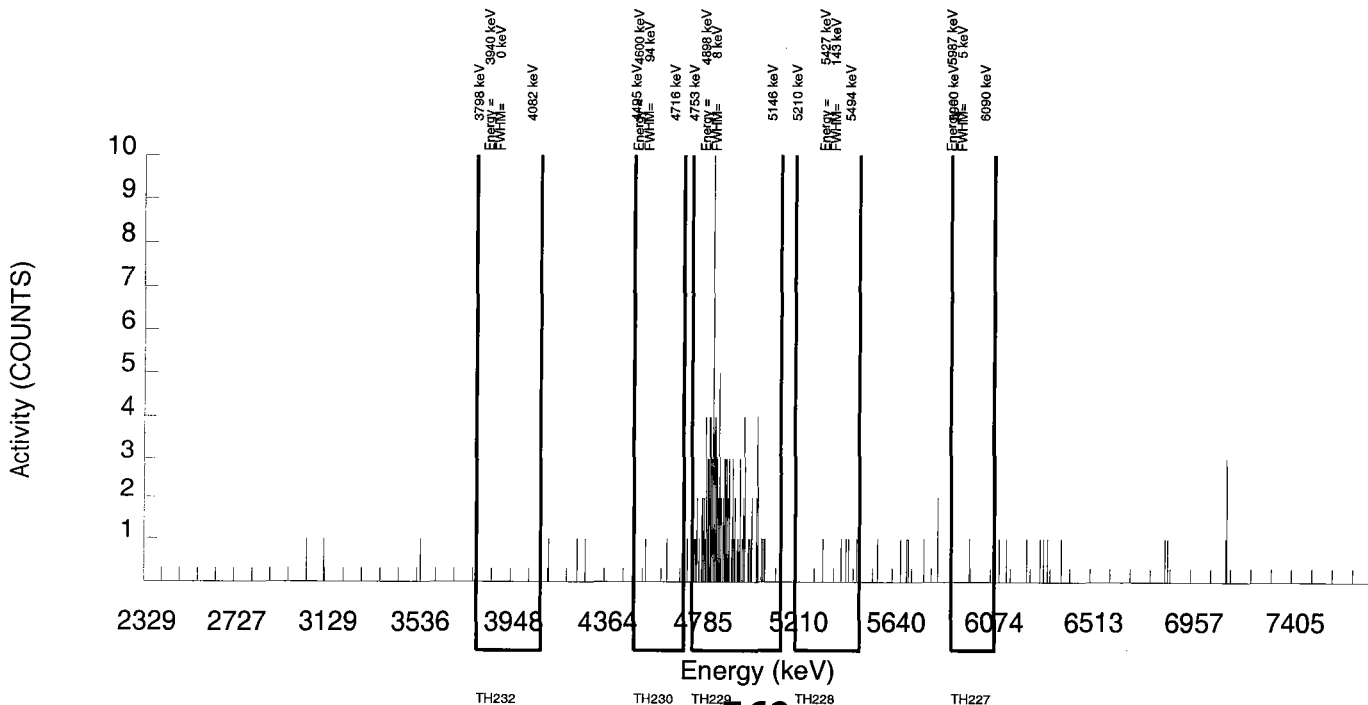
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NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	0.040	0.960	0.9798	54.75400	4.65E-03	2.53E-01	7.65E-01	2.53E-01
TH-228	5363.000	2.479	2.400	1.5492	99.94000	9.28E-02	1.73E-01	3.25E-01	1.71E-01
TH229	4900.000	111.120	2.880	1.6971	99.52000	4.12E+00	1.18E+00	3.42E-01	7.78E-01
TH-230	4625.000	1.321	0.000	0.0000	100.0000	4.87E-02	8.37E-02	1.11E-01	8.31E-02
TH-232	3972.000	-0.720	0.720	0.8485	100.0000	-2.65E-02	3.06E-02	2.25E-01	3.00E-02

NOTE: Corrections made to TH-228

Handwritten signature: BWS/A



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 18-APR-2007 00:00:00

SAMPLE ID : S0184428005_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :28647
AVERAGE %EFFICIENCY :33.2614
% YIELD : 93.479

COUNT DATE: 2-MAY-2007 15:19:17
ELAPSED LIVE TIME(SEC): 14399.99
ANALYST :BXJ1

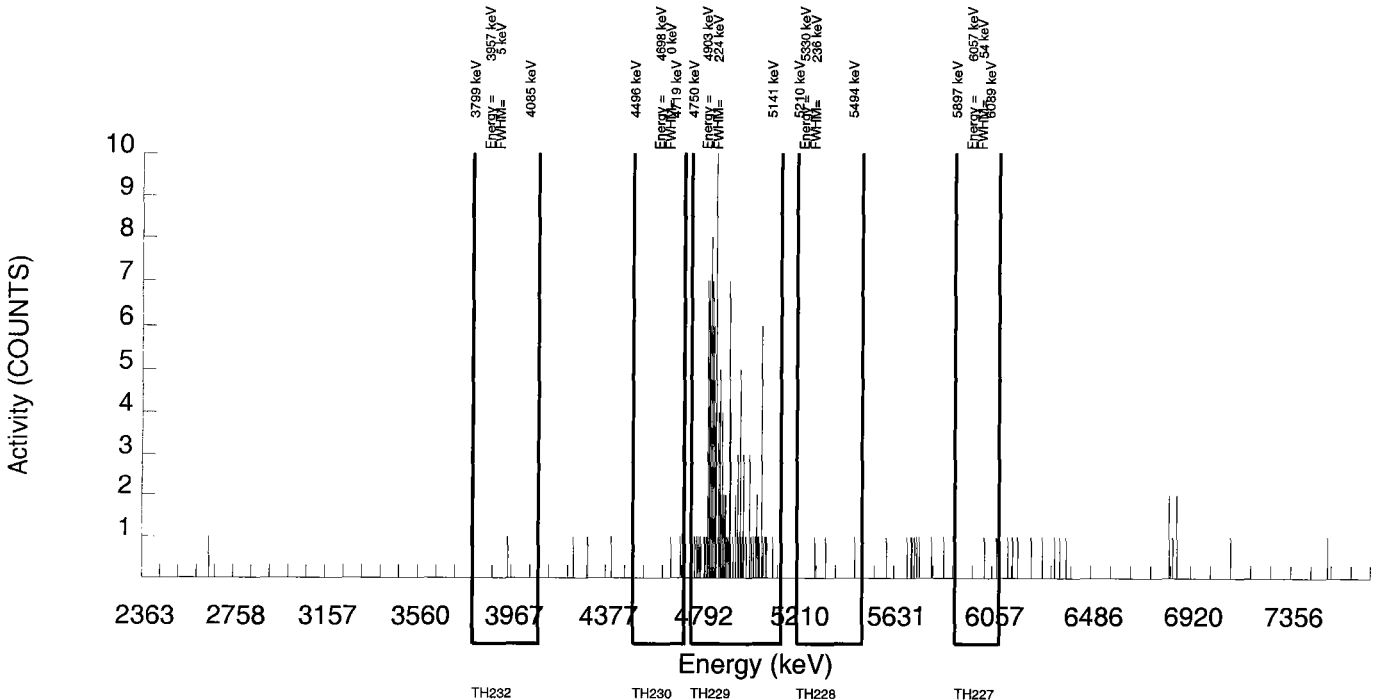
MS/MSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	LCS/LCSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	TRACER ID : 0486-L ISOTOPE : TH229 NOMINAL : 1.82809 dpm RESULTS : 1.70888 dpm	LIB FILE : ENV_ALPHA_TH.N BKG FILE : B033.CNF;801 BKG DATE : 29-APR-2007 EFF FILE : W033.CNF;247 CAL DATE : 1-MAY-2007
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NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	0.800	1.200	1.0954	54.75400	7.61E-02	2.82E-01	6.67E-01	2.82E-01
TH-228	5363.000	-2.388	6.240	2.4980	99.94000	-7.32E-02	1.40E-01	3.72E-01	1.39E-01
TH229	4900.000	135.760	0.240	0.4899	99.52000	4.12E+00	1.07E+00	1.45E-01	6.93E-01
TH-230	4625.000	1.450	0.720	0.8485	100.0000	4.38E-02	9.10E-02	1.84E-01	9.06E-02
TH-232	3972.000	1.000	0.000	0.0000	100.0000	3.02E-02	5.95E-02	9.05E-02	5.92E-02

NOTE: Corrections made to TH-228

QDS/WA



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 18-APR-2007 00:00:00

SAMPLE ID : S0184428006_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :67610
AVERAGE %EFFICIENCY :31.9836
% YIELD : 92.774

COUNT DATE: 3-MAY-2007 09:44:40
ELAPSED LIVE TIME(SEC): 14400.00
ANALYST :BXJ1

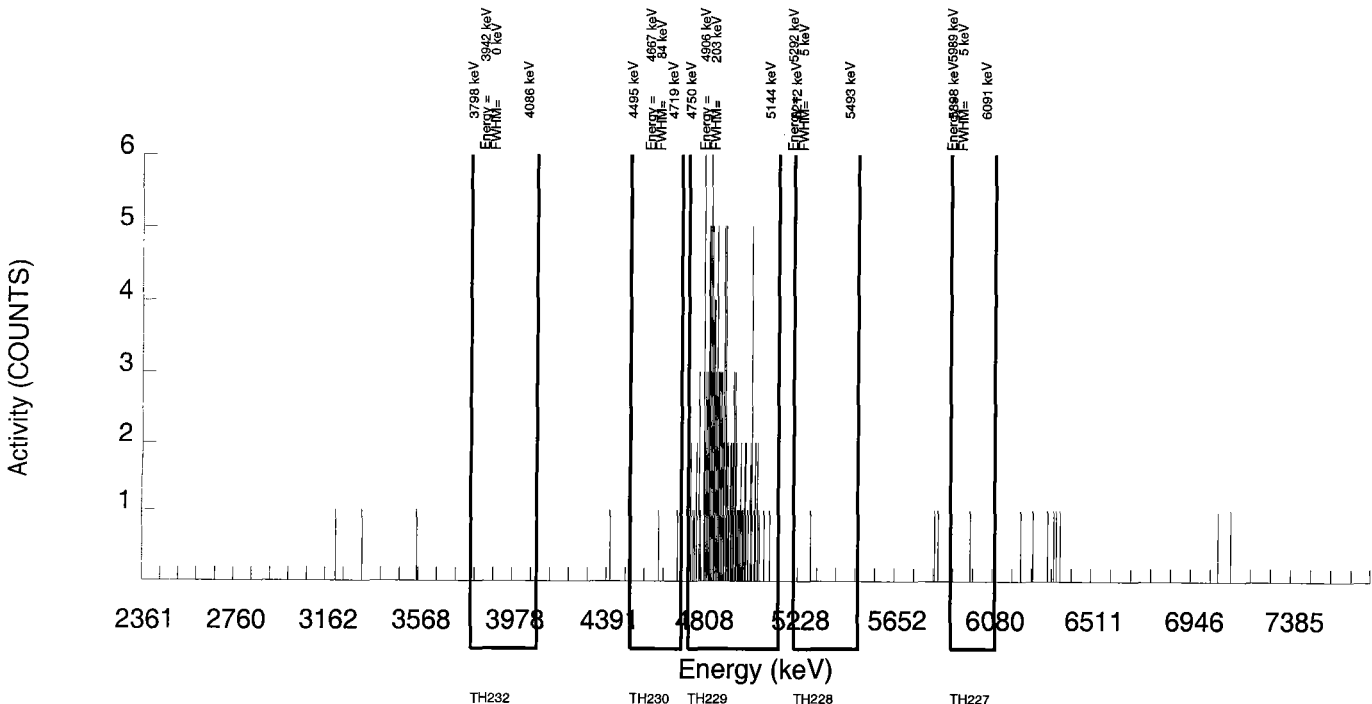
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NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	1.000	0.000	0.0000	54.75400	1.02E-01	2.02E-01	3.07E-01	2.01E-01
TH-228	5363.000	-0.341	1.200	1.0954	99.94000	-1.10E-02	6.75E-02	2.25E-01	6.74E-02
TH229	4900.000	129.560	1.440	1.2000	99.52000	4.12E+00	1.09E+00	2.35E-01	7.14E-01
TH-230	4625.000	0.488	0.720	0.8485	100.0000	1.54E-02	7.29E-02	1.93E-01	7.28E-02
TH-232	3972.000	0.000	0.000	0.0000	100.0000	0.00E+00	6.20E-02	9.49E-02	6.20E-02

NOTE: Corrections made to TH-228

Handwritten signature: QUDS/1/07



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 18-APR-2007 00:00:00

SAMPLE ID : S0184428007_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :33894
AVERAGE %EFFICIENCY :31.8227
% YIELD : 116.072

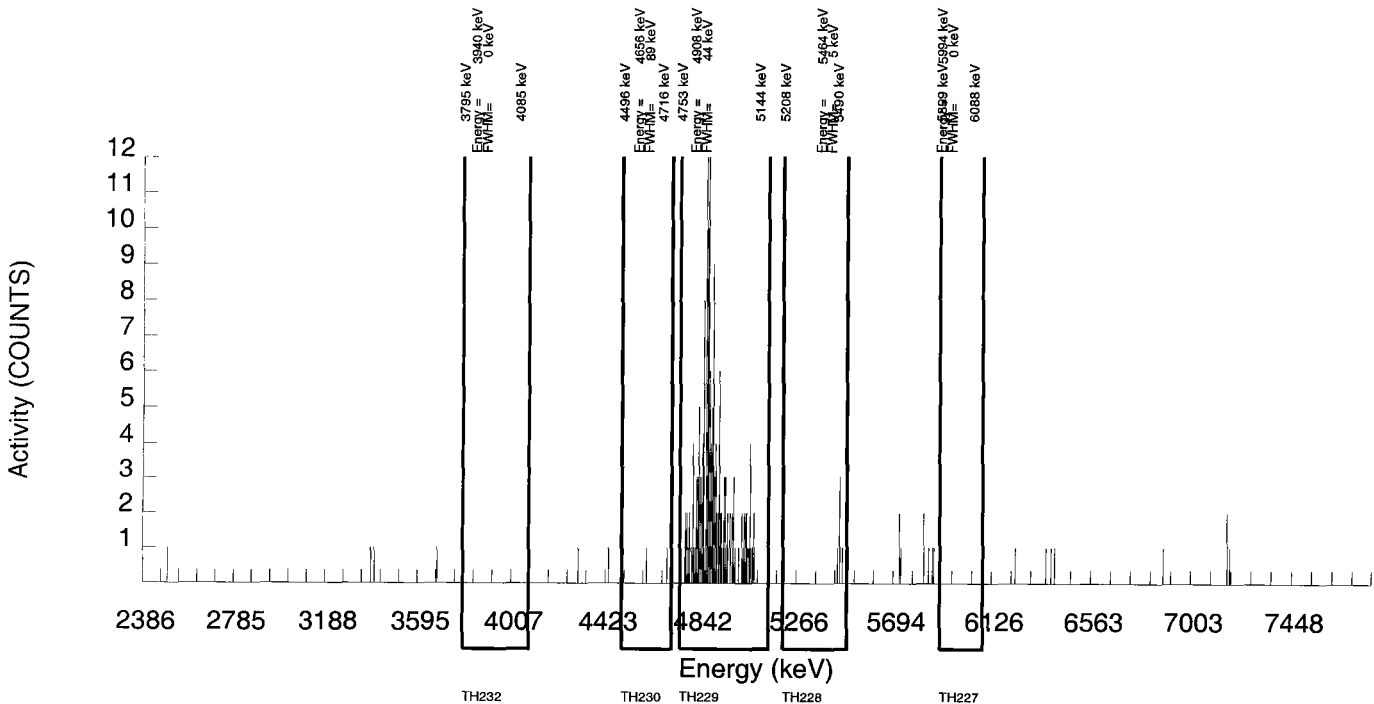
COUNT DATE: 3-MAY-2007 09:44:40
ELAPSED LIVE TIME(SEC): 14400.00
ANALYST :BXJ1

MS/MSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	LCS/LCSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	TRACER ID : 0486-L ISOTOPE : TH229 NOMINAL : 1.82809 dpm RESULTS : 2.12189 dpm	LIB FILE : ENV_ALPHA_TH.N BKG FILE : B022.CNF;797 BKG DATE : 29-APR-2007 EFF FILE : W022.CNF;228 CAL DATE : 2-MAY-2007
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NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	0.000	0.000	0.0000	54.75400	0.00E+00	1.61E-01	2.47E-01	1.61E-01
TH-228	5363.000	0.744	4.080	2.0199	99.94000	1.92E-02	1.22E-01	2.68E-01	1.22E-01
TH229	4900.000	161.280	0.720	0.8485	99.52000	4.12E+00	9.95E-01	1.56E-01	6.37E-01
TH-230	4625.000	0.774	0.240	0.4899	100.0000	1.97E-02	5.17E-02	1.22E-01	5.16E-02
TH-232	3972.000	-0.240	0.240	0.4899	100.0000	-6.10E-03	5.13E-02	1.22E-01	5.12E-02

NOTE: Corrections made to TH-228



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 19-APR-2007 00:00:00

SAMPLE ID : S0184428008_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :64260
AVERAGE %EFFICIENCY :32.8212
% YIELD : 88.871

COUNT DATE: 3-MAY-2007 09:44:40
ELAPSED LIVE TIME(SEC): 14400.00
ANALYST :BXJ1

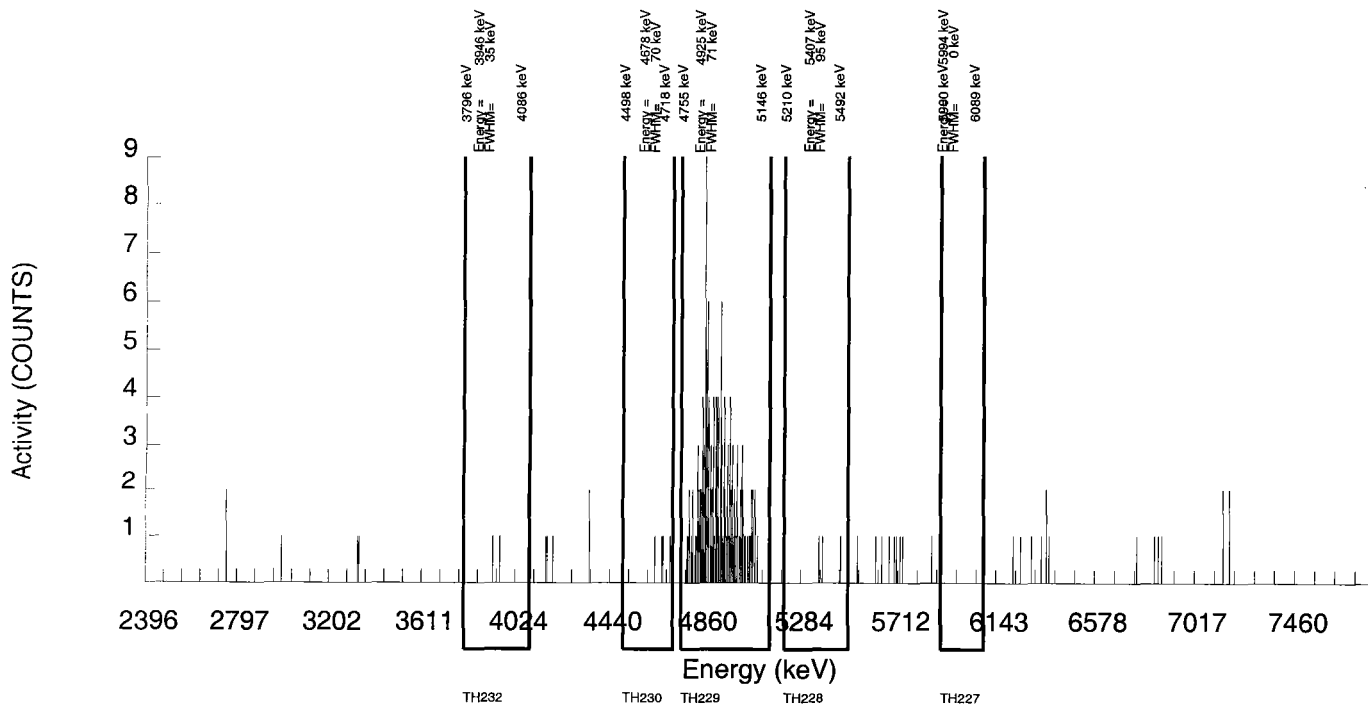
MS/MSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	LCS/LCSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	TRACER ID : 0486-L ISOTOPE : TH229 NOMINAL : 1.82809 dpm RESULTS : 1.62464 dpm	LIB FILE : ENV_ALPHA_TH.N BKG FILE : B023.CNF;797 BKG DATE : 29-APR-2007 EFF FILE : W023.CNF;217 CAL DATE : 2-MAY-2007
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NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	-0.480	0.480	0.6928	54.75400	-4.82E-02	2.08E-01	5.56E-01	2.08E-01
TH-228	5363.000	-1.219	4.080	2.0199	99.94000	-3.98E-02	1.26E-01	3.40E-01	1.25E-01
TH229	4900.000	127.360	2.640	1.6248	99.52000	4.12E+00	1.11E+00	2.89E-01	7.24E-01
TH-230	4625.000	2.022	1.200	1.0954	100.0000	6.50E-02	1.19E-01	2.26E-01	1.18E-01
TH-232	3972.000	-0.160	2.160	1.4697	100.0000	-5.15E-03	1.00E-01	2.70E-01	1.00E-01

NOTE: Corrections made to TH-228

Handwritten signature: @wspk/a



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 19-APR-2007 00:00:00

SAMPLE ID : S0184428009_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :64262
AVERAGE %EFFICIENCY :32.5245
% YIELD : 78.528

COUNT DATE: 3-MAY-2007 09:44:40
ELAPSED LIVE TIME(SEC): 14400.00
ANALYST :BXJ1

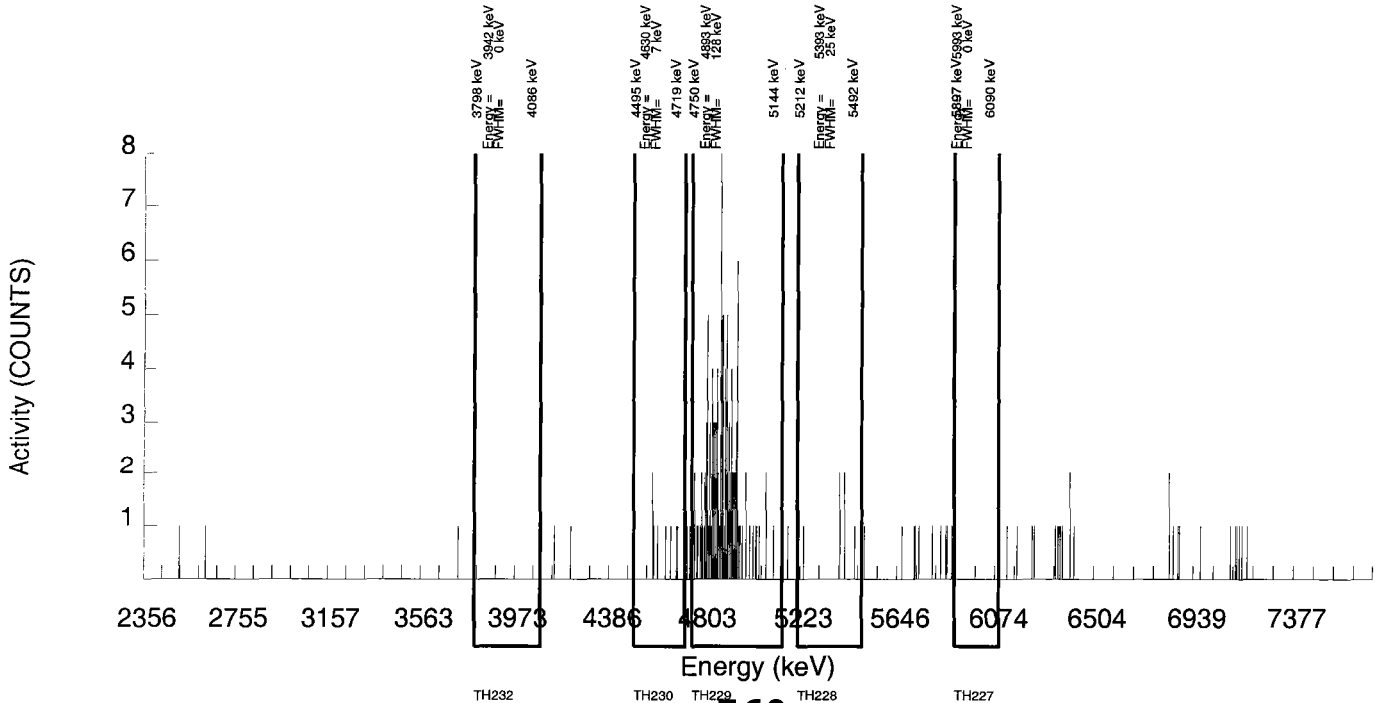
MS/MSD	LCS/LCSD	TRACER	LIB FILE : ENV_ALPHA_TH.N
ID : 1066-B	ID : 1066-B	ID : 0486-L	BKG FILE : B024.CNF;792
ISOTOPE : TH-232	ISOTOPE : TH-232	ISOTOPE : TH229	BKG DATE : 29-APR-2007
PCI/L : 4.034E+00	PCI/L : 4.034E+00	NOMINAL : 1.82809 dpm	EFF FILE : W024.CNF;215
		RESULTS : 1.43556 dpm	CAL DATE : 2-MAY-2007

NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	0.000	0.000	0.0000	54.75400	0.00E+00	2.25E-01	3.44E-01	2.25E-01
TH-228	5363.000	2.518	3.360	1.8330	99.94000	9.39E-02	1.90E-01	3.62E-01	1.89E-01
TH229	4900.000	111.520	0.480	0.6928	99.52000	4.12E+00	1.16E+00	2.04E-01	7.66E-01
TH-230	4625.000	6.358	0.960	0.9798	100.0000	2.34E-01	2.04E-01	2.42E-01	1.98E-01
TH-232	3972.000	0.000	0.000	0.0000	100.0000	0.00E+00	7.20E-02	1.10E-01	7.20E-02

NOTE: Corrections made to TH-228

Handwritten signature: 9/25/07



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 27-APR-2007 00:00:00

SAMPLE ID : S1201322488_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :64259
AVERAGE %EFFICIENCY :30.8895
% YIELD : 104.572

COUNT DATE: 3-MAY-2007 10:10:10
ELAPSED LIVE TIME(SEC): 14399.99
ANALYST :BXJ1

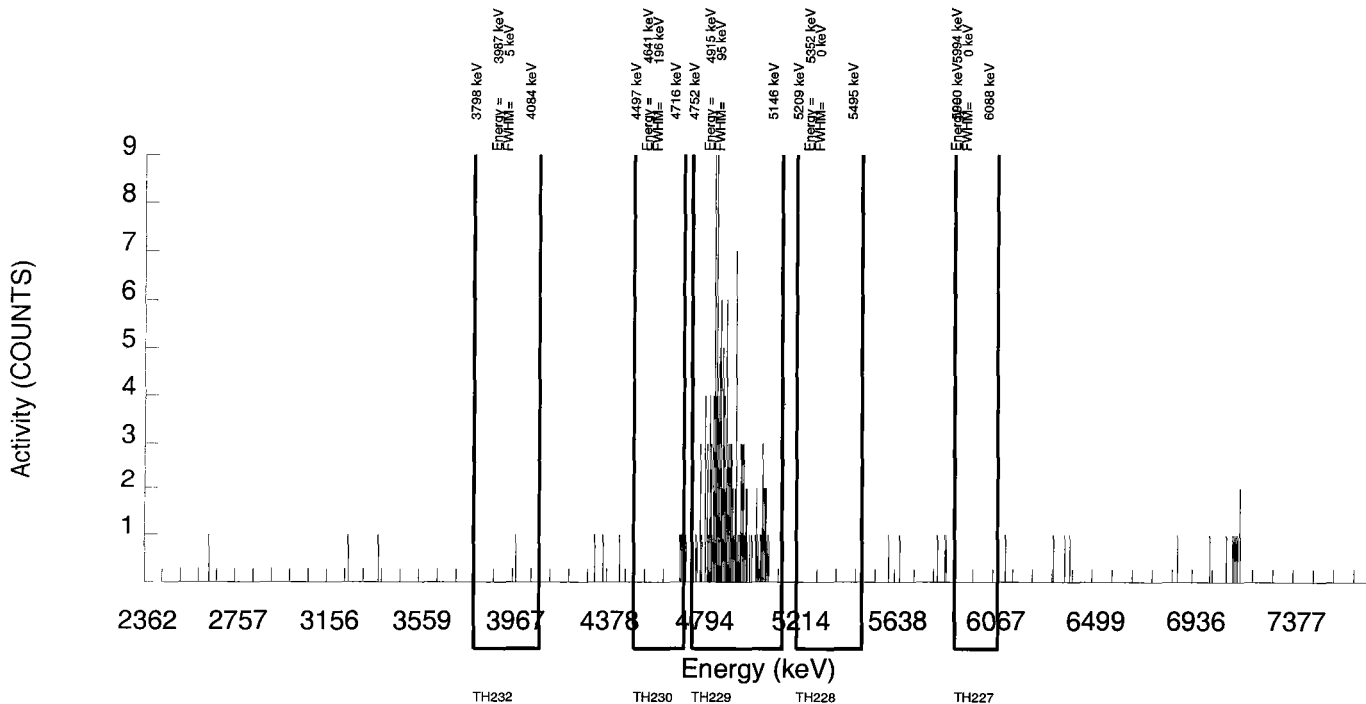
MS/MSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	LCS/LCSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	TRACER ID : 0486-L ISOTOPE : TH229 NOMINAL : 1.82808 dpm RESULTS : 1.91166 dpm	LIB FILE : ENV_ALPHA_TH.N BKG FILE : B071.CNF;796 BKG DATE : 29-APR-2007 EFF FILE : W071.CNF;206 CAL DATE : 1-MAY-2007
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NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	0.000	0.000	0.0000	54.75400	0.00E+00	1.32E-01	2.03E-01	1.32E-01
TH-228	5363.000	-1.834	1.680	1.2961	99.94000	-5.37E-02	6.80E-02	2.27E-01	6.79E-02
TH229	4900.000	141.040	0.960	0.9798	99.52000	4.12E+00	1.03E+00	1.92E-01	6.82E-01
TH-230	4625.000	2.138	0.000	0.0000	100.0000	6.21E-02	8.41E-02	8.72E-02	8.33E-02
TH-232	3972.000	-0.200	1.200	1.0954	100.0000	-5.81E-03	6.46E-02	2.04E-01	6.46E-02

NOTE: Corrections made to TH-228

Handwritten signature



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506 SAMPLE DATE : 17-APR-2007 00:00:00		SAMPLE ID : S1201322489_TH SAMPLE QTY: 0.200 L	
DETECTOR NUMBER :45-149AA3 AVERAGE %EFFICIENCY :31.3588 % YIELD : 95.528		COUNT DATE: 3-MAY-2007 10:10:10 ELAPSED LIVE TIME(SEC): 14399.99 ANALYST :BXJ1	
MS/MSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	LCS/LCSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	TRACER ID : 0486-L ISOTOPE : TH229 NOMINAL : 1.82809 dpm RESULTS : 1.74634 dpm	LIB FILE : ENV_ALPHA_TH.N BKG FILE : B072.CNF;794 BKG DATE : 29-APR-2007 EFF FILE : W072.CNF;201 CAL DATE : 1-MAY-2007

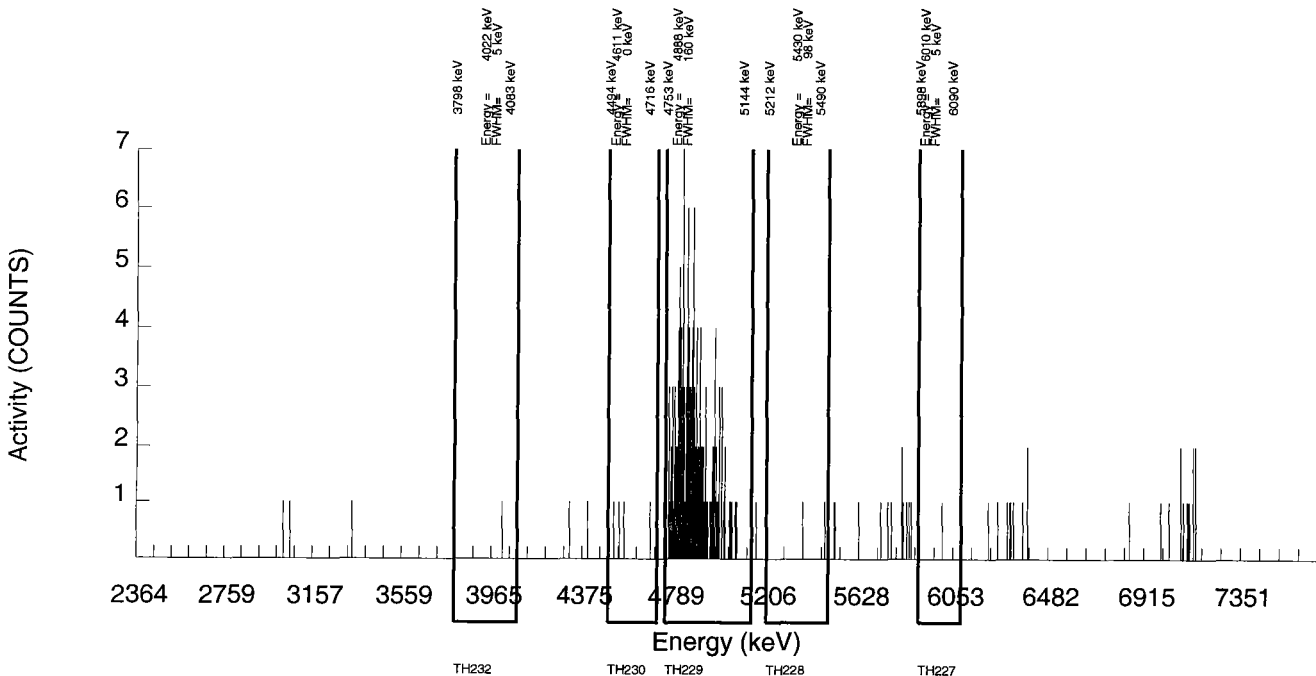
NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	0.520	0.480	0.6928	54.75400	5.48E-02	2.18E-01	5.84E-01	2.18E-01
TH-228	5363.000	-0.303	2.160	1.4697	99.94000	-9.65E-03	9.63E-02	2.67E-01	9.63E-02
TH229	4900.000	130.800	1.200	1.0954	99.52000	4.12E+00	1.07E+00	2.21E-01	7.10E-01
TH-230	4625.000	3.960	0.240	0.4899	100.0000	1.24E-01	1.29E-01	1.50E-01	1.27E-01
TH-232	3972.000	0.520	0.480	0.6928	100.0000	1.63E-02	6.49E-02	1.73E-01	6.48E-02

NOTE: Corrections made to TH-228

Quasidra
RPD
ACTUMDA

RED
Th-228 = 0.148
Th-230 = 0.220
Th-232 = 0.373



GEL Laboratories LLC
ALPHA SPECTROSCOPY REPORT

BATCH NUMBER: 628506
SAMPLE DATE : 27-APR-2007 00:00:00

SAMPLE ID : S1201322490_TH
SAMPLE QTY: 0.200 L

DETECTOR NUMBER :33211
AVERAGE %EFFICIENCY :31.4705
% YIELD : 105.203

COUNT DATE: 3-MAY-2007 10:10:10
ELAPSED LIVE TIME(SEC): 14399.99
ANALYST :BXJ1

MS/MSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	LCS/LCSD ID : 1066-B ISOTOPE : TH-232 PCI/L : 4.034E+00	TRACER ID : 0486-L ISOTOPE : TH229 NOMINAL : 1.82808 dpm RESULTS : 1.92320 dpm	LIB FILE : ENV_ALPHA_TH.N BKG FILE : B073.CNF;793 BKG DATE : 29-APR-2007 EFF FILE : W073.CNF;196 CAL DATE : 1-MAY-2007
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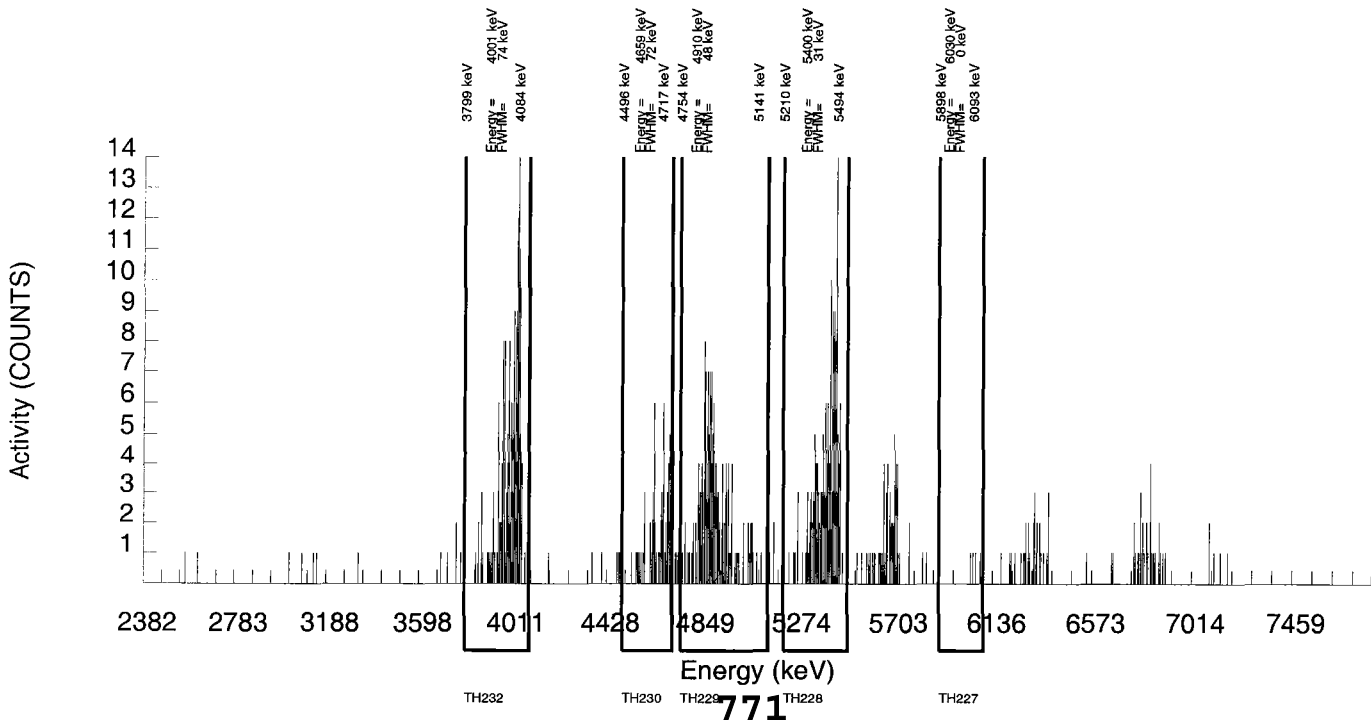
NUCLIDE ACTIVITY SUMMARY

NUCLIDE	ENERGY	NET AREA	BKG AREA	BKG Sg	%ABUN	ACTIVITY pCi/L	TPU 1.96-SIGMA	MDA pCi/L	UNC pCi/L
AC-227	5978.000	4.040	0.960	0.9798	54.75400	2.66E-01	2.99E-01	4.34E-01	2.95E-01
TH-228	5363.000	142.242	3.600	1.8974	99.94000	4.06E+00	1.01E+00	2.84E-01	6.78E-01
TH229	4900.000	144.560	1.440	1.2000	99.52000	4.12E+00	1.02E+00	2.11E-01	6.75E-01
TH-230	4625.000	52.676	1.440	1.2000	100.00000	1.49E+00	4.95E-01	2.10E-01	4.10E-01
TH-232	3972.000	148.520	0.480	0.6928	100.00000	4.21E+00	1.03E+00	1.57E-01	6.78E-01

NOTE: Corrections made to TH-228

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$$LCS = \frac{4.21}{4.03} = 104\%$$



CONTINUING CALIBRATION DATA

Review of Alpha Spectrometer QA results (Daily checks) 2-MAY-2007 16:44:18.79

Starting with bank 1
Ending with bank 21

	Detector	Parameter	Flag
2-MAY-2007	70	PSENERGY-5000	Above
2-MAY-2007	107	PSENERGY-5000	Above
2-MAY-2007	130	PSFWHM-5000	Above
2-MAY-2007	151	PSCTSS-5000	Below

DETECTORS NOT LISTED HAVE PASSED ALL QUALITY ASSURANCE PARAMETERS

APPROVAL DATE: 5.2.07

APPROVAL TIME: 16:50

APPROVED BY: SRB

PROCEDURE # GL-RAD-I-009

Report completed at 2-MAY-2007 16:46:05.54

Review of QA results (Daily checks) 2-MAY-2007 16:46:07.27

Starting with bank 1
Ending with bank 21

This is a list of Detectors that may not have properly transferred to the QA file

APPROVAL DATE: 5.2.07

APPROVAL TIME: 16:50

APPROVED BY: SRB

PROCEDURE # GL-RAD-I-009

Report completed at 2-MAY-2007 16:47:09.28

Review of Alpha Spectrometer QA results (Daily checks) 3-MAY-2007 13:53:58.46

Starting with bank 1
Ending with bank 21

	Detector	Parameter	Flag
3-MAY-2007	70	PSENERGY-5000	Above
3-MAY-2007	107	PSENERGY-5000	Above
3-MAY-2007	130	PSFWHM-5000	Above
3-MAY-2007	151	PSCTSS-5000	Below

DETECTORS NOT LISTED HAVE PASSED ALL QUALITY ASSURANCE PARAMETERS

APPROVAL DATE: 5/3/07

APPROVAL TIME: 1400

APPROVED BY: *GLD*

PROCEDURE # GL-RAD-I-009

Report completed at 3-MAY-2007 13:55:35.08

Review of QA results (Daily checks) 3-MAY-2007 13:55:36.38

Starting with bank 1
Ending with bank 21

This is a list of Detectors that may not have properly transferred to the QA file

Problem with D119. Daily may not have run on 3-MAY-2007 3*
Problem with D120. Daily may not have run on 3-MAY-2007 3*

APPROVAL DATE: 5/3/07 APPROVAL TIME: 1400

APPROVED BY: *MLD* PROCEDURE # GL-RAD-I-009

Report completed at 3-MAY-2007 13:56:34.20

* extended count
MLD 5/3/07

Review of Alpha Spectrometer QA results (Daily checks) 9-APR-2007 09:19:02.21

Starting with bank 1
Ending with bank 21

	Detector	Parameter	Flag
9-APR-2007	4	PSFWHM-5000	Below
9-APR-2007	4	PSENERGY-5000	Above
9-APR-2007	4	PSCTSS-5000	Below
9-APR-2007	7	PSENERGY-5000	Above
9-APR-2007	8	PSFWHM-5000	Below
9-APR-2007	8	PSENERGY-5000	Above
9-APR-2007	10	PSENERGY-5000	Above
9-APR-2007	26	PSFWHM-5000	Below
9-APR-2007	26	PSCENTRD-5000	Below
9-APR-2007	26	PSCTSS-5000	Below
9-APR-2007	45	PSENERGY-5000	Above
9-APR-2007	70	PSENERGY-5000	Above
9-APR-2007	92	PSFWHM-5000	Above
9-APR-2007	107	PSENERGY-5000	Above
9-APR-2007	151	PSCTSS-5000	Below

DETECTORS NOT LISTED HAVE PASSED ALL QUALITY ASSURANCE PARAMETERS

APPROVAL DATE: 4/9/07 APPROVAL TIME: 9:25
APPROVED BY: *MD* PROCEDURE # GL-RAD-I-009

Report completed at 9-APR-2007 09:20:38.84

Review of QA results (Daily checks) 9-APR-2007 09:20:40.24

Starting with bank 1
Ending with bank 21

This is a list of Detectors that may not have properly transferred to the QA file

APPROVAL DATE: 4/9/07

APPROVAL TIME: 9:25

APPROVED BY: *CCD*

PROCEDURE # GL-RAD-I-009

Report completed at 9-APR-2007 09:21:37.22

METHOD CALIBRATION DATA

Alpha Spectroscopy Calibration Sources

The following is a summary of the procedure performed for preparing mixed alpha calibration standards:

A calibration stock solution was prepared by combining the following in a volumetric flask and diluting to 50 ml (51.4561 grams). These individual standards were first verified by direct precipitation of small aliquots of each standard (as described in Attachment I).

Isotope	Serial #	amount used (g)	dpm (note 1)
Gd-148	64445-278	0.2471	212.159287
Np-237	4341	1.8075	204.438594
Cm-244	4320A	7.2704	240.144737

Note 1: Dpm values are decay corrected to 2/7/2003.

Forty one weighted aliquots were then directly precipitated using Neodymium Fluoride /HF system. The sources were then mounted on 0.1Poly-propylene filters and taped securely to 1 inch stainless steel planchettes for counting in an Alpha Spectroscopy system. The liquid fraction that passes through the filter is collected, traced with Am-241 and prepared for counting using the identical procedure. These samples are counted to ensure there is no more than 1% loss in the filtering processes. All sources pass this requirement. The DPM information for each source is listed in attachment II.

Certificate files were then created on the Alpha system used for acquisition and processing of data. Each source is assigned a name (AESS-001 through AESS-041). The information for the source activities is entered into the certificate files appropriate for the detector being used.

For example: If source AESS-001 is used for calibrating detector 25, the source data is entered into the certificate file name [env_alpha.cer]U025.cer.

The computer software uses these certificate files to calculate an energy calibration and determine the efficiency of the detector after counting the source.

Ante Hill
4/1/03

2002 Alpha Eff Source Stock Verification

Curium-244

Isotope	Value pCi/g	
SSTOCK2002A2_AM	106.000	
SSTOCK2002B2_AM	106.000	
SSTOCK2002C2_AM	106.000	
Mean Value (Counting) =	106.000	98.04%
Stdev =	0	
Target =	108.1230	pCi/g
Lower Limit =	106	
Upper Limit =	106	
Rule 1 Pass/Fail	Pass	Pass
Two sigma =	0	
10 % of Mean =	10.6	
Rule 2 (Pass/Fail)	Pass	

Neptunium-237

Isotope	Value pCi/g	
SSTOCK2002A2_AM	90.100	
SSTOCK2002B2_AM	87.200	
SSTOCK2002C2_AM	93.500	
Mean Value (Counting) =	90.267	98.02%
Stdev =	3.153305144	
Target =	92.0900	pCi/g
Lower Limit =	83.96005638	
Upper Limit =	96.57327696	
Rule 1 Pass/Fail	Pass	Pass
Two sigma =	6.306610289	
10 % of Mean =	9.026666667	
Rule 2 (Pass/Fail)	Pass	

Gadolinium-148

Isotope	Value pCi/g	
SSTOCK2002A2_AM	96.080	
SSTOCK2002B2_AM	93.750	
SSTOCK2002C2_AM	96.560	
Mean Value (Counting) =	95.463	99.81%
Stdev =	1.503074627	
Target =	95.6460	pCi/g
Lower Limit =	92.45718408	
Upper Limit =	98.46948259	
Rule 1 Pass/Fail	Pass	Pass
Two sigma =	3.006149253	
10 % of Mean =	9.546333333	
Rule 2 (Pass/Fail)	Pass	

PASS
① Fair 8/2/03

The analyst prepared three standard verification sources for the mixed alpha stock standard using 0.1030 g for source #1, 0.1035 g for source #2 and 0.1028 g for source #3. Each standard was combined with 1.0 mL of Am-243 standard 0454-A and 0.1 mL of Nd carrier in a disposable centrifuge tube. Four mL of 2 M HCl was added to each standard and then diluted with 4 mL of DI water. 5 mL of ascorbic acid was added to each sample then one mL of 48% HF was added to precipitate Nd (and Curium) fluoride. After 30 minutes, each sample was filtered following routine procedures for alpha spectroscopy source preparation. Each source was counted using routine alpha spec procedures. pCi/L values for the Mixed Alpha Stock were calculated and compared to Am-243 certified values.

① The rule failed because the 3 results from 3 sources were the same. Therefore, the stdev was zero. The intent of this ^{rule} is to ensure an appropriate amount of counts are achieved for proper determinations. For each standard the # of counts achieved was just under 10000 which has a counting error of nearly 1%. Because the standard's bias is < 2% from the known value the standard is acceptable.

Robert J. ... 021203

Attachment II

Mixed alpha Isotope	Reference date = Source	2/7/2003 Stock Dpm/g	Reference date	Half-life (years)	amount used for mixed	Dpm/g mixed	Decay corr dpm/g
Gd-148	64445-278 (0502)	44354.59289	9/5/2002	74.60	0.2471	212.9974853	212.159287
Np-237	Srm 4341 (0493)	5820	3/1/1992	2.14E+06	1.8075	204.4393182	204.438594
Cm-244	SRM 4320a (0490)	2223.6	2/1/1996	18.1	7.2704	314.1796879	240.144737

Source	Amount of standard used	dpm Gd-148	dpm Np-237	dpm Cm-244	dps Gd-148	dps Np-237	dps Cm-244
AESS-001	1.0362	219.839	211.839	248.838	3.664	3.531	4.147 -
AESS-002	1.0344	219.458	211.471	248.406	3.658	3.525	4.140 -
AESS-003	1.034	219.373	211.390	248.310	3.656	3.523	4.138 -
AESS-004	1.0331	219.182	211.206	248.094	3.653	3.520	4.135 -
AESS-005	1.0353	219.649	211.655	248.622	3.661	3.528	4.144 -
AESS-006	1.0331	219.182	211.206	248.094	3.653	3.520	4.135 -
AESS-007	1.0348	219.542	211.553	248.502	3.659	3.526	4.142 -
AESS-008	1.0363	219.861	211.860	248.862	3.664	3.531	4.148 -
AESS-009	1.0352	219.627	211.635	248.598	3.660	3.527	4.143 -
AESS-010	1.0346	219.500	211.512	248.454	3.658	3.525	4.141 -
AESS-011	1.0353	219.649	211.655	248.622	3.661	3.528	4.144 -
AESS-012	1.0367	219.946	211.941	248.958	3.666	3.532	4.149 -
AESS-013	1.0396	220.561	212.534	249.654	3.676	3.542	4.161
AESS-014	1.0368	219.967	211.962	248.982	3.666	3.533	4.150
AESS-015	1.0363	219.861	211.860	248.862	3.664	3.531	4.148
AESS-016	1.0353	219.649	211.655	248.622	3.661	3.528	4.144
AESS-017	1.0356	219.712	211.717	248.694	3.662	3.529	4.145
AESS-018	1.0359	219.776	211.778	248.766	3.663	3.530	4.146
AESS-019	1.0349	219.564	211.574	248.526	3.659	3.526	4.142
AESS-020	1.0361	219.818	211.819	248.814	3.664	3.530	4.147
AESS-021	1.0348	219.542	211.553	248.502	3.659	3.526	4.142
AESS-022	1.0353	219.649	211.655	248.622	3.661	3.528	4.144
AESS-023	1.0353	219.649	211.655	248.622	3.661	3.528	4.144
AESS-024	1.0343	219.436	211.451	248.382	3.657	3.524	4.140
AESS-025	1.0364	219.882	211.880	248.886	3.665	3.531	4.148
AESS-026	1.0336	219.288	211.308	248.214	3.655	3.522	4.137
AESS-027	1.0353	219.649	211.655	248.622	3.661	3.528	4.144
AESS-028	1.0366	219.924	211.921	248.934	3.665	3.532	4.149

782

Attachment II

AESS-029	1.0355	219.691	211.696	248.670	3.662	3.528	4.144
AESS-030	1.0349	219.564	211.574	248.526	3.659	3.526	4.142
AESS-031	1.0343	219.436	211.451	248.382	3.657	3.524	4.140
AESS-032	1.0326	219.076	211.103	247.973	3.651	3.518	4.133
AESS-033	1.0308	218.694	210.735	247.541	3.645	3.512	4.126
AESS-034	1.0314	218.821	210.858	247.685	3.647	3.514	4.128
AESS-035	1.0303	218.588	210.633	247.421	3.643	3.511	4.124
AESS-036	1.0343	219.436	211.451	248.382	3.657	3.524	4.140
AESS-037	1.0353	219.649	211.655	248.622	3.661	3.528	4.144
AESS-038	1.0373	220.073	212.064	249.102	3.668	3.534	4.152
AESS-039	1.0334	219.245	211.267	248.166	3.654	3.521	4.136
AESS-040	1.0346	219.500	211.512	248.454	3.658	3.525	4.141
AESS-041	1.0352	219.627	211.635	248.598	3.660	3.527	4.143



0490
0491

National Institute of Standards & Technology

Certificate

Standard Reference Material 4320A Curium-244 Radioactivity Standard

This Standard Reference Material (SRM) consists of radioactive curium-244 nitrate and nitric acid dissolved in 5 mL of distilled water. The solution is contained in a flame-sealed NIST borosilicate-glass ampoule. The SRM is intended for the calibration of alpha-particle counting instruments and for the monitoring of radiochemical procedures.

Radiological Hazard

The SRM ampoule contains curium-244 with a total activity of approximately 200 Bq. Curium-244 decays by alpha-particle emission to plutonium-240, which also decays by alpha-particle emission. None of the alpha particles escape from the SRM ampoule. During the decay process X-rays and gamma rays with energies from 40 keV to 1100 keV are also emitted. Most of these photons escape from the SRM ampoule but their intensities are so small that they do not represent a radiation hazard. Approximate unshielded dose rates at several distances (as of the reference time) are given in note [a]*. The SRM should be used only by persons qualified to handle radioactive material.

Chemical Hazard

The SRM ampoule contains nitric acid (HNO_3) with a concentration of 1 mole per liter of water. The solution is corrosive and represents a health hazard if it comes in contact with eyes or skin. If the ampoule is to be opened to transfer the solution, the recommended procedure is given on page 2. The ampoule should be opened only by persons qualified to handle both radioactive material and strong acid solution.

Storage and Handling

The SRM should be stored and used at a temperature between 5 and 65 °C. The solution in an unopened ampoule should remain stable and homogeneous until at least February 2006.

The ampoule (or any subsequent container) should always be clearly marked as containing radioactive material. If the ampoule is transported it should be packed, marked, labeled, and shipped in accordance with the applicable national, international, and carrier regulations. The solution in the ampoule is a dangerous good (hazardous material) both because of the radioactivity and because of the strong acid.

Preparation

This Standard Reference Material was prepared in the Physics Laboratory, Ionizing Radiation Division, Radioactivity Group, J.M.R. Hutchinson, Group Leader. The overall technical direction and physical measurements leading to certification were provided by L.L. Lucas of the Radioactivity Group.

The support aspects involved in the preparation, certification, and issuance of this SRM were coordinated through the Standard Reference Materials Program by N.M. Trahey.

Gaithersburg, Maryland 20899
February 1996 (Text only revised November 1997)

Thomas E. Gills, Chief
Standard Reference Materials Program

Recommended Procedure for Opening the SRM Ampoule

- 1) If the SRM solution is to be diluted, it is recommended that the diluting solution have a composition comparable to that of the SRM solution.
- 2) Wear eye protection, gloves, and protective clothing and work over a tray with absorbent paper in it. Work in a fume hood. In addition to the radioactive material, the solution contains strong acid and is corrosive.
- 3) Shake the ampoule to wet all of the inside surface of the ampoule. Return the ampoule to the upright position.
- 4) Check that all of the liquid has drained out of the neck of the ampoule. If necessary, gently tap the neck to speed the process.
- 5) Holding the ampoule upright, score the narrowest part of the neck with a scribe or diamond pencil.
- 6) Lightly wet the scored line. This reduces the crack propagation velocity and makes for a cleaner break.
- 7) Hold the ampoule upright with a paper towel, a wiper, or a support jig. Position the scored line away from you. Using a paper towel or wiper to avoid contamination, snap off the top of the ampoule by pressing the narrowest part of the neck away from you while pulling the tip of the ampoule towards you.
- 8) Transfer the solution from the ampoule using a pycnometer or a pipet with dispenser handle. **NEVER PIPETTE BY MOUTH**
- 9) Seal any unused SRM solution in a flame-sealed glass ampoule, if possible, to minimize the evaporation loss.

See also reference [4]*.

PROPERTIES OF SRM 4320A
(Certified values are shown in bold type)

Source identification number	NIST SRM 4320A		
Physical Properties:			
Source description	Liquid in flame-sealed NIST borosilicate-glass ampoule		
Ampoule specifications	Body outside diameter	(16.5 ± 0.5) mm	
	Wall Thickness	(0.60 ± 0.04) mm	
	Barium content	Less than 2.5%	
	Lead-oxide content	Less than 0.02%	
	Other heavy elements	Trace quantities	
Solution density	(1.030 ± 0.002) g·mL ⁻¹ at 22.8 °C [b]*		
Solution mass	Approximately 5.15 g		
Chemical Properties:			
Solution composition	Chemical Formula	Concentration (mol·L ⁻¹)	Mass Fraction (g·g ⁻¹)
	H ₂ O	54	0.94
	HNO ₃	1.0	0.06
	HCl	<0.001	<4 × 10 ⁻⁵
	²⁴⁴ Cm ⁺³	5 × 10 ⁻¹¹	1 × 10 ⁻¹¹
Radiological Properties:			
Radionuclide	Curium-244		
Reference time	1200 EST, 1 February 1996 [c]		
Massic activity of the solution [d]	37.06 Bq·g ⁻¹ <i>24.12 Bq·g⁻¹</i>		
Relative expanded uncertainty (k=2)	0.68% [e] [f]		
Alpha-particle-emitting daughters	Plutonium-240: (0.22 ± 0.11) Bq·g ⁻¹ [b] [c]		
Alpha-particle-emitting impurities	Curium-243: (0.005 ± 0.004) Bq·g ⁻¹ [b] [g]		
Photon-emitting impurities	None detected [h]		
Half lives used in the decay corrections	Curium-244: (18.10 ± 0.02) a [i] Plutonium-240: (6563 ± 7) a [i]		
Calibration method	Two 4π liquid-scintillation counting systems		

37.06 x 2 *2004*

- [i] The stated uncertainty is the standard uncertainty. See reference [5].
- [j] Relative standard uncertainty of the input quantity x_i .
- [k] The relative change in the output quantity y divided by the relative change in the input quantity x_i . If $|\partial y/\partial x_i| \cdot (x_i/y) = 1.0$, then a 1% change in x_i results in a 1% change in y . If $|\partial y/\partial x_i| \cdot (x_i/y) = 0.05$, then a 1% change in x_i results in a 0.05% change in y .
- [m] Relative component of combined standard uncertainty of output quantity y , rounded to two significant figures or less. The relative component of combined standard uncertainty of y is given by $u_i(y)/y = |\partial y/\partial x_i| \cdot u(x_i)/y = |\partial y/\partial x_i| \cdot (x_i/y) \cdot u(x_i)/x_i$. The numerical values of $u(x_i)/x_i$, $|\partial y/\partial x_i| \cdot (x_i/y)$, and $u_i(y)/y$, all dimensionless quantities, are listed in columns 3, 4, and 5, respectively. Thus, the value in column 5 is equal to the value in column 4 multiplied by the value in column 3. The input quantities are independent, or very nearly so. Hence the covariances are zero or negligible.
- [n] The relative standard uncertainty of $\lambda \cdot t$ is determined by the relative standard uncertainty of λ (i.e., of the half life). The relative standard uncertainty of t is negligible.
- [p] $|\partial y/\partial x_i| \cdot (x_i/y) = |\lambda \cdot t|$
- [q] The live time is determined by counting the pulses from a gated oscillator.
- [r] The standard uncertainty given is for the detected Cm-243 impurity. $|\partial y/\partial x_i| \cdot (x_i/y) = \{(\text{response per Bq of impurity})/(\text{response per Bq of Cm-244})\} \cdot \{(\text{Bq of impurity})/(\text{Bq of Cm-244})\}$.
- [s] The standard uncertainty for each undetected impurity that might reasonably be expected to be present is estimated to be equal to the estimated limit of detection for that impurity, i.e. $u(x_i)/x_i = 100\%$. $|\partial y/\partial x_i| \cdot (x_i/y) = \{(\text{response per Bq of impurity})/(\text{response per Bq of Cm-244})\} \cdot \{(\text{Bq of impurity})/(\text{Bq of Cm-244})\}$. Thus $u_i(y)/y$ is the relative change in y if the impurity were present with a massic activity equal to the estimated limit of detection.

REFERENCES

- [1] International Organization for Standardization (ISO), *ISO Standards Handbook - Quantities and Units*, 1993. Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036, U.S.A. 1-212-642-4900.
- [2] International Organization for Standardization (ISO), *Guide to the Expression of Uncertainty in Measurement*, 1993. Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036, U.S.A. 1-212-642-4900. (Listed under ISO miscellaneous publications as "ISO Guide to the Expression 1993".)
- [3] B. N. Taylor and C. E. Kuyatt, *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results*, NIST Technical Note 1297, 1994. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20407, U.S.A.
- [4] National Council on Radiation Protection and Measurements Report No. 58, *A Handbook of Radioactivity Measurements Procedures*, Second Edition, 1985. Available from the National Council on Radiation Protection and Measurements, 7910 Woodmont Avenue, Bethesda, MD 20814 U.S.A.
- [5] Evaluated Nuclear Structure Data File (ENSDF), February 1996.

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

64445-278

Gd-148 5 mL Liquid in Flame Sealed Vial

This standard radionuclide source was prepared gravimetrically from a calibrated master liquid radionuclide solution source. The master source was calibrated by liquid scintillation counting.

ANALYTICS maintains traceability to the National Institute of Standards and Technology through Measurements Assurance Programs as described in USNRC Reg. Guide 4.15, Revision 1.

Radionuclide purity and calibration were checked using a germanium gamma spectrometer system. The nuclear decay rate and assay date for this source are given below.

ISOTOPE:	Gd-148
ACTIVITY (dps):	3.759 E3
HALF-LIFE:	74.6 years
CALIBRATION DATE:	September 5, 2002 12:00 EST
TOTAL UNCERTAINTY*:	2.7%
SYSTEMATIC:	1.9%
RANDOM:	0.8%

99% confidence level.

5.08493 grams 0.1M HCl solution.

P O NUMBER 3207RD, Item 1

SOURCE PREPARED BY:

M.D. Currie
M.D. Currie, Radiochemist

Q A APPROVED:

LM. R. J. 9-6-02

0493



National Institute of Standards & Technology

Certificate

Standard Reference Material 4341 Radioactivity Standard

Radionuclide	Neptunium-237
Source identification	SRM 4341
Source description	Liquid in flame-sealed NIST borosilicate-glass ampoule ^{(1)*}
Solution mass	Approximately 5 grams
Solution composition	Neptunium-237 in 2 mol·L ⁻¹ nitric acid
Reference time	March 1992
Radioactivity concentration	97.0 Bq·g ⁻¹
Overall uncertainty	1.28 percent ⁽²⁾
Photon-emitting impurities	None detected ⁽³⁾
Alpha-particle-emitting impurities	None detected ⁽⁴⁾
Half life	(2.14 ± 0.11) × 10 ⁶ years ⁽⁵⁾
Measuring instrument	NIST "0.8π"α defined-solid-angle counter with scintillation detector

This standard reference material was prepared in the Physics Laboratory, Ionizing Radiation Division, Radioactivity Group, J.M. Robin Hutchinson, Acting Group Leader.

Gaithersburg, MD
January 1993

William P. Reed, Chief
Standard Reference Materials Program

*Notes on back

NOTES

(1) Approximately five milliliters of solution. Ampoule specifications:

body diameter	16.5 ± 0.5 mm
wall thickness	0.60 ± 0.04 mm
barium content	less than 2.5 percent
lead oxide content	less than 0.02 percent
other heavy elements	trace quantities

(2) The overall uncertainty was formed by taking three times the quadratic combination of the standard deviations of the mean, or approximations thereof, for the following:

a) alpha-particle-emission-rate measurements	0.34 percent
b) background	0.01 percent
c) livetime	0.10 percent
d) detection efficiency	0.16 percent
e) count-rate-vs-energy extrapolation to zero energy	0.10 percent
f) half life	0.00 percent
g) gravimetric measurements	0.10 percent
h) alpha-emitting impurities	0.10 percent

(3) The protactinium-233 daughter of neptunium-237 is approximately in equilibrium. The limit of detection for photon-emitting impurities is

$0.19 \text{ } \gamma \cdot \text{s}^{-1} \cdot \text{g}^{-1}$ for energies between 30 and 307 keV and
 $0.01 \text{ } \gamma \cdot \text{s}^{-1} \cdot \text{g}^{-1}$ for energies between 317 and 1750 keV,

provided that the impurity photons are separated in energy by 5 keV or more from photons emitted in the decay of neptunium-237 and progeny.

(4) The limit of detection for alpha-particle-emitting impurities is

$0.10 \text{ } \alpha \cdot \text{s}^{-1} \cdot \text{g}^{-1}$ for energies between 1.0 and 4.3 MeV and
 $0.05 \text{ } \alpha \cdot \text{s}^{-1} \cdot \text{g}^{-1}$ for energies between 4.9 and 10 MeV.

(5) Evaluated Nuclear Structure Data File (ENSDF), February 1990.

For further information please contact Dr. J.M. Robin Hutchinson at NIST.
Telephone: (301) 975-5532
FAX: (301) 926-7416

Subsection 1: Energy Calibration

The Energy Calibration energy=Cal_Zero+(e1*C)+(e2*C^2)

where : Cal_Zero = Energy Calibration Zero
e1 = Energy Calibration Slope
e2 = Energy Calibration Quadratic
C = Channel

Instrument : CHAMBER 001
Detector : 67602
Calibration Date/Time : 1-MAY-2007 12:25:18
Calibration Source Id : AESS-001

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.991
NP-237	4341	3/31/08	4768.800	4768.776
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
Energy Calibration Zero : 2353.993
Energy Calibration Slope : 4.945806
Energy Calibration Quadratic : 3.2491662E-04
Energy Calibration Range : 7759.000

Instrument : CHAMBER 002
Detector : 45-149AA4
Calibration Date/Time : 1-MAY-2007 12:26:09
Calibration Source Id : AESS-002

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.676
NP-237	4341	3/31/08	4768.800	4768.694
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
Energy Calibration Zero : 2362.463
Energy Calibration Slope : 4.975717
Energy Calibration Quadratic : 2.7048873E-04
Energy Calibration Range : 7741.000

Instrument : CHAMBER 003
Detector : 20659
Calibration Date/Time : 1-MAY-2007 12:27:11
Calibration Source Id : AESS-003

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
Energy Calibration Zero : 2380.958
Energy Calibration Slope : 4.998821
Energy Calibration Quadratic : 2.8956775E-04
Energy Calibration Range : 7803.000

Instrument : CHAMBER 004
 Detector : 64279
 Calibration Date/Time : 1-MAY-2007 12:27:25
 Calibration Source Id : AESS-004

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.816
CM-244	4320A	3/31/08	5795.020	5795.019

Energy/Channel Equation : see above
 Energy Calibration Zero : 2381.582
 Energy Calibration Slope : 4.905616
 Energy Calibration Quadratic : 3.5165399E-04
 Energy Calibration Range : 7774.000

Instrument : CHAMBER 005
 Detector : 28642
 Calibration Date/Time : 1-MAY-2007 12:27:39
 Calibration Source Id : AESS-005

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.290
NP-237	4341	3/31/08	4768.800	4769.052
CM-244	4320A	3/31/08	5795.020	5795.122

Energy/Channel Equation : see above
 Energy Calibration Zero : 2358.207
 Energy Calibration Slope : 4.937344
 Energy Calibration Quadratic : 3.1742794E-04
 Energy Calibration Range : 7747.000

Instrument : CHAMBER 006
 Detector : 65890
 Calibration Date/Time : 1-MAY-2007 12:27:52
 Calibration Source Id : AESS-006

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.335
NP-237	4341	3/31/08	4768.800	4768.971
CM-244	4320A	3/31/08	5795.020	5795.132

Energy/Channel Equation : see above
 Energy Calibration Zero : 2365.347
 Energy Calibration Slope : 4.974998
 Energy Calibration Quadratic : 3.0962014E-04
 Energy Calibration Range : 7784.000

Instrument : CHAMBER 007
 Detector : 67607
 Calibration Date/Time : 1-MAY-2007 12:28:15
 Calibration Source Id : AESS-007

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.653
NP-237	4341	3/31/08	4768.800	4768.535
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2358.280
 Energy Calibration Slope : 4.963570
 Energy Calibration Quadratic : 3.1164539E-04
 Energy Calibration Range : 7768.000

Instrument : CHAMBER 008
 Detector : 67608
 Calibration Date/Time : 1-MAY-2007 12:28:32
 Calibration Source Id : AESS-008

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.783
NP-237	4341	3/31/08	4768.800	4768.734
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2347.248
 Energy Calibration Slope : 4.934912
 Energy Calibration Quadratic : 3.1857216E-04
 Energy Calibration Range : 7735.000

Instrument : CHAMBER 009
 Detector : 13285
 Calibration Date/Time : 1-MAY-2007 12:30:20
 Calibration Source Id : AESS-009

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.314
NP-237	4341	3/31/08	4768.800	4768.223
CM-244	4320A	3/31/08	5795.020	5794.866

Energy/Channel Equation : see above
 Energy Calibration Zero : 2416.772
 Energy Calibration Slope : 4.924848
 Energy Calibration Quadratic : 2.6891666E-04
 Energy Calibration Range : 7742.000

Instrument : CHAMBER 010
 Detector : 67614
 Calibration Date/Time : 1-MAY-2007 12:30:48
 Calibration Source Id : AESS-010

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2346.164
 Energy Calibration Slope : 4.987560
 Energy Calibration Quadratic : 2.9459634E-04
 Energy Calibration Range : 7762.000

Instrument : CHAMBER 011
 Detector : 9537
 Calibration Date/Time : 1-MAY-2007 12:31:07
 Calibration Source Id : AESS-011

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.568
NP-237	4341	3/31/08	4768.800	4768.428
CM-244	4320A	3/31/08	5795.020	5794.768

Energy/Channel Equation : see above
 Energy Calibration Zero : 2416.450
 Energy Calibration Slope : 4.884070
 Energy Calibration Quadratic : 3.2991037E-04
 Energy Calibration Range : 7764.000

Instrument : CHAMBER 012
 Detector : 33085
 Calibration Date/Time : 1-MAY-2007 12:31:33
 Calibration Source Id : AESS-012

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.068
NP-237	4341	3/31/08	4768.800	4768.041
CM-244	4320A	3/31/08	5795.020	5794.582

Energy/Channel Equation : see above
 Energy Calibration Zero : 2421.283
 Energy Calibration Slope : 4.948177
 Energy Calibration Quadratic : 2.7379635E-04
 Energy Calibration Range : 7775.000

Instrument : CHAMBER 013
 Detector : 21084
 Calibration Date/Time : 1-MAY-2007 12:32:32
 Calibration Source Id : AESS-013
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.397
 NP-237 4341 3/31/08 4768.800 4768.280
 CM-244 4320A 3/31/08 5795.020 5794.375

Energy/Channel Equation : see above
 Energy Calibration Zero : 2371.169
 Energy Calibration Slope : 4.920475
 Energy Calibration Quadratic : 3.5042217E-04
 Energy Calibration Range : 7777.000

Instrument : CHAMBER 014
 Detector : 67616
 Calibration Date/Time : 1-MAY-2007 12:32:51
 Calibration Source Id : AESS-014
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.000
 NP-237 4341 3/31/08 4768.800 4768.799
 CM-244 4320A 3/31/08 5795.020 5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2346.590
 Energy Calibration Slope : 4.953113
 Energy Calibration Quadratic : 3.4527661E-04
 Energy Calibration Range : 7781.000

Instrument : CHAMBER 015
 Detector : 61581
 Calibration Date/Time : 1-MAY-2007 12:33:07
 Calibration Source Id : AESS-015
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.000
 NP-237 4341 3/31/08 4768.800 4768.472
 CM-244 4320A 3/31/08 5795.020 5794.938

Energy/Channel Equation : see above
 Energy Calibration Zero : 2358.489
 Energy Calibration Slope : 4.905737
 Energy Calibration Quadratic : 3.3103448E-04
 Energy Calibration Range : 7729.000

Instrument : CHAMBER 016
 Detector : 21086
 Calibration Date/Time : 1-MAY-2007 12:33:33
 Calibration Source Id : AESS-016

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.040
NP-237	4341	3/31/08	4768.800	4768.331
CM-244	4320A	3/31/08	5795.020	5794.833

Energy/Channel Equation : see above
 Energy Calibration Zero : 2390.551
 Energy Calibration Slope : 4.866526
 Energy Calibration Quadratic : 3.3818057E-04
 Energy Calibration Range : 7728.000

Instrument : CHAMBER 017
 Detector : 33203
 Calibration Date/Time : 1-MAY-2007 12:33:46
 Calibration Source Id : AESS-017

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.216
NP-237	4341	3/31/08	4768.800	4768.510
CM-244	4320A	3/31/08	5795.020	5794.828

Energy/Channel Equation : see above
 Energy Calibration Zero : 2392.062
 Energy Calibration Slope : 4.958617
 Energy Calibration Quadratic : 3.0980739E-04
 Energy Calibration Range : 7795.000

Instrument : CHAMBER 018
 Detector : 21063
 Calibration Date/Time : 1-MAY-2007 12:33:59
 Calibration Source Id : AESS-018

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.144
NP-237	4341	3/31/08	4768.800	4768.470
CM-244	4320A	3/31/08	5795.020	5794.924

Energy/Channel Equation : see above
 Energy Calibration Zero : 2369.738
 Energy Calibration Slope : 4.947270
 Energy Calibration Quadratic : 2.9434948E-04
 Energy Calibration Range : 7744.000

Instrument : CHAMBER 019
 Detector : 64268
 Calibration Date/Time : 2-MAY-2007 07:06:00
 Calibration Source Id : AESS-019
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.000
 NP-237 4341 3/31/08 4768.800 4768.799
 CM-244 4320A 3/31/08 5795.020 5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2334.221
 Energy Calibration Slope : 5.002819
 Energy Calibration Quadratic : 2.4730715E-04
 Energy Calibration Range : 7716.000

Instrument : CHAMBER 020
 Detector : 33093
 Calibration Date/Time : 2-MAY-2007 07:06:11
 Calibration Source Id : AESS-020
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.000
 NP-237 4341 3/31/08 4768.800 4768.800
 CM-244 4320A 3/31/08 5795.020 5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2347.683
 Energy Calibration Slope : 4.994005
 Energy Calibration Quadratic : 2.6070123E-04
 Energy Calibration Range : 7735.000

Instrument : CHAMBER 021
 Detector : 67610
 Calibration Date/Time : 2-MAY-2007 07:06:24
 Calibration Source Id : AESS-021
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.441
 NP-237 4341 3/31/08 4768.800 4768.912
 CM-244 4320A 3/31/08 5795.020 5795.413

Energy/Channel Equation : see above
 Energy Calibration Zero : 2356.483
 Energy Calibration Slope : 4.959792
 Energy Calibration Quadratic : 2.8363444E-04
 Energy Calibration Range : 7733.000

Instrument : CHAMBER 022
 Detector : 33894
 Calibration Date/Time : 2-MAY-2007 07:06:34
 Calibration Source Id : AESS-022

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.798
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2380.619
 Energy Calibration Slope : 4.962787
 Energy Calibration Quadratic : 3.2251576E-04
 Energy Calibration Range : 7801.000

Instrument : CHAMBER 023
 Detector : 64260
 Calibration Date/Time : 2-MAY-2007 07:06:43
 Calibration Source Id : AESS-023

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2390.951
 Energy Calibration Slope : 4.991652
 Energy Calibration Quadratic : 2.9467521E-04
 Energy Calibration Range : 7811.000

Instrument : CHAMBER 024
 Detector : 64262
 Calibration Date/Time : 2-MAY-2007 07:06:54
 Calibration Source Id : AESS-024

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.194
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2351.040
 Energy Calibration Slope : 4.963492
 Energy Calibration Quadratic : 2.7676029E-04
 Energy Calibration Range : 7724.000

Instrument : CHAMBER 025
 Detector : 45-149AA5
 Calibration Date/Time : 1-MAY-2007 12:37:55
 Calibration Source Id : AESS-025

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.731
NP-237	4341	3/31/08	4768.800	4768.608
CM-244	4320A	3/31/08	5795.020	5794.959

Energy/Channel Equation : see above
 Energy Calibration Zero : 2331.598
 Energy Calibration Slope : 4.899590
 Energy Calibration Quadratic : 3.2605973E-04
 Energy Calibration Range : 7691.000

Instrument : CHAMBER 026
 Detector : 67600
 Calibration Date/Time : 1-MAY-2007 12:38:15
 Calibration Source Id : AESS-026

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.878
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5794.980

Energy/Channel Equation : see above
 Energy Calibration Zero : 2342.554
 Energy Calibration Slope : 4.923319
 Energy Calibration Quadratic : 3.4513458E-04
 Energy Calibration Range : 7746.000

Instrument : CHAMBER 027
 Detector : 31436
 Calibration Date/Time : 1-MAY-2007 12:38:52
 Calibration Source Id : AESS-027

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3179.868
NP-237	4341	3/31/08	4768.800	4764.265
CM-244	4320A	3/31/08	5795.020	5785.390

Energy/Channel Equation : see above
 Energy Calibration Zero : 2418.394
 Energy Calibration Slope : 5.031523
 Energy Calibration Quadratic : 2.7504089E-04
 Energy Calibration Range : 7859.000

Instrument : CHAMBER 028
 Detector : 64257
 Calibration Date/Time : 1-MAY-2007 12:39:05
 Calibration Source Id : AESS-028

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.749
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2333.204
 Energy Calibration Slope : 4.939702
 Energy Calibration Quadratic : 3.4804261E-04
 Energy Calibration Range : 7756.000

Instrument : CHAMBER 029
 Detector : 30419
 Calibration Date/Time : 1-MAY-2007 12:39:38
 Calibration Source Id : AESS-029

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.108
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5796.549

Energy/Channel Equation : see above
 Energy Calibration Zero : 2394.374
 Energy Calibration Slope : 4.888103
 Energy Calibration Quadratic : 2.9751155E-04
 Energy Calibration Range : 7712.000

Instrument : CHAMBER 030
 Detector : 30420
 Calibration Date/Time : 1-MAY-2007 12:40:08
 Calibration Source Id : AESS-030

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3181.425
NP-237	4341	3/31/08	4768.800	4767.398
CM-244	4320A	3/31/08	5795.020	5794.548

Energy/Channel Equation : see above
 Energy Calibration Zero : 2396.066
 Energy Calibration Slope : 4.993881
 Energy Calibration Quadratic : 2.6739662E-04
 Energy Calibration Range : 7790.000

Instrument : CHAMBER 031
 Detector : 67042
 Calibration Date/Time : 1-MAY-2007 12:40:25
 Calibration Source Id : AESS-031
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.000
 NP-237 4341 3/31/08 4768.800 4768.801
 CM-244 4320A 3/31/08 5795.020 5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2349.938
 Energy Calibration Slope : 4.922909
 Energy Calibration Quadratic : 3.6026348E-04
 Energy Calibration Range : 7769.000

Instrument : CHAMBER 032
 Detector : 67041
 Calibration Date/Time : 1-MAY-2007 12:40:39
 Calibration Source Id : AESS-032
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.615
 NP-237 4341 3/31/08 4768.800 4768.693
 CM-244 4320A 3/31/08 5795.020 5794.890

Energy/Channel Equation : see above
 Energy Calibration Zero : 2323.763
 Energy Calibration Slope : 4.944439
 Energy Calibration Quadratic : 3.5650248E-04
 Energy Calibration Range : 7761.000

Instrument : CHAMBER 033
 Detector : 28647
 Calibration Date/Time : 1-MAY-2007 12:40:58
 Calibration Source Id : AESS-033
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.319
 NP-237 4341 3/31/08 4768.800 4768.855
 CM-244 4320A 3/31/08 5795.020 5795.084

Energy/Channel Equation : see above
 Energy Calibration Zero : 2358.013
 Energy Calibration Slope : 4.917303
 Energy Calibration Quadratic : 2.9548776E-04
 Energy Calibration Range : 7703.000

Instrument : CHAMBER 034
 Detector : 32697
 Calibration Date/Time : 1-MAY-2007 12:41:13
 Calibration Source Id : AESS-034

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3181.890
NP-237	4341	3/31/08	4768.800	4768.491
CM-244	4320A	3/31/08	5795.020	5794.722

Energy/Channel Equation : see above
 Energy Calibration Zero : 2357.487
 Energy Calibration Slope : 4.967137
 Energy Calibration Quadratic : 3.3835528E-04
 Energy Calibration Range : 7799.000

Instrument : CHAMBER 035
 Detector : 29271
 Calibration Date/Time : 1-MAY-2007 12:41:31
 Calibration Source Id : AESS-035

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.181
NP-237	4341	3/31/08	4768.800	4769.169
CM-244	4320A	3/31/08	5795.020	5795.093

Energy/Channel Equation : see above
 Energy Calibration Zero : 2349.764
 Energy Calibration Slope : 4.963951
 Energy Calibration Quadratic : 3.1340955E-04
 Energy Calibration Range : 7761.000

Instrument : CHAMBER 036
 Detector : 64251
 Calibration Date/Time : 1-MAY-2007 12:41:41
 Calibration Source Id : AESS-036

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.860
NP-237	4341	3/31/08	4768.800	4768.679
CM-244	4320A	3/31/08	5795.020	5794.805

Energy/Channel Equation : see above
 Energy Calibration Zero : 2362.641
 Energy Calibration Slope : 4.909873
 Energy Calibration Quadratic : 3.6605919E-04
 Energy Calibration Range : 7774.000

Instrument : CHAMBER 037
 Detector : 45-149BB5
 Calibration Date/Time : 1-MAY-2007 12:41:51
 Calibration Source Id : AESS-037

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2374.735
 Energy Calibration Slope : 4.909373
 Energy Calibration Quadratic : 3.3013703E-04
 Energy Calibration Range : 7748.000

Instrument : CHAMBER 038
 Detector : 19323
 Calibration Date/Time : 1-MAY-2007 12:42:00
 Calibration Source Id : AESS-038

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2386.374
 Energy Calibration Slope : 4.941266
 Energy Calibration Quadratic : 3.5418489E-04
 Energy Calibration Range : 7818.000

Instrument : CHAMBER 039
 Detector : 45-149BB2
 Calibration Date/Time : 1-MAY-2007 12:42:13
 Calibration Source Id : AESS-039

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2381.596
 Energy Calibration Slope : 4.877223
 Energy Calibration Quadratic : 3.5749609E-04
 Energy Calibration Range : 7751.000

Instrument : CHAMBER 040
 Detector : 30446
 Calibration Date/Time : 1-MAY-2007 12:42:25
 Calibration Source Id : AESS-040
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.673
 NP-237 4341 3/31/08 4768.800 4768.719
 CM-244 4320A 3/31/08 5795.020 5794.918
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2375.034
 Energy Calibration Slope : 4.900118
 Energy Calibration Quadratic : 3.3752681E-04
 Energy Calibration Range : 7747.000

Instrument : CHAMBER 041
 Detector : 22834
 Calibration Date/Time : 1-MAY-2007 12:42:36
 Calibration Source Id : AESS-041
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.478
 NP-237 4341 3/31/08 4768.800 4768.477
 CM-244 4320A 3/31/08 5795.020 5794.804
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2362.118
 Energy Calibration Slope : 4.878083
 Energy Calibration Quadratic : 3.3879752E-04
 Energy Calibration Range : 7713.000

Instrument : CHAMBER 042
 Detector : 67617
 Calibration Date/Time : 1-MAY-2007 12:43:21
 Calibration Source Id : AESS-042
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.698
 NP-237 4341 3/31/08 4768.800 4768.526
 CM-244 4320A 3/31/08 5795.020 5794.713
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2388.789
 Energy Calibration Slope : 4.938027
 Energy Calibration Quadratic : 3.6397425E-04
 Energy Calibration Range : 7827.000

Instrument : CHAMBER 043
 Detector : 42470
 Calibration Date/Time : 1-MAY-2007 12:43:32
 Calibration Source Id : AESS-043

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.617
NP-237	4341	3/31/08	4768.800	4768.771
CM-244	4320A	3/31/08	5795.020	5794.885

Energy/Channel Equation : see above
 Energy Calibration Zero : 2385.047
 Energy Calibration Slope : 4.914535
 Energy Calibration Quadratic : 3.4665526E-04
 Energy Calibration Range : 7781.000

Instrument : CHAMBER 044
 Detector : 67612
 Calibration Date/Time : 1-MAY-2007 12:43:43
 Calibration Source Id : AESS-044

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2362.929
 Energy Calibration Slope : 4.933266
 Energy Calibration Quadratic : 3.5721905E-04
 Energy Calibration Range : 7789.000

Instrument : CHAMBER 045
 Detector : 67601
 Calibration Date/Time : 1-MAY-2007 12:44:08
 Calibration Source Id : AESS-045

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.630
NP-237	4341	3/31/08	4768.800	4768.649
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2369.743
 Energy Calibration Slope : 4.915380
 Energy Calibration Quadratic : 3.5995973E-04
 Energy Calibration Range : 7781.000

Instrument : CHAMBER 046
 Detector : 42471
 Calibration Date/Time : 1-MAY-2007 12:44:20
 Calibration Source Id : AESS-046
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.534
 NP-237 4341 3/31/08 4768.800 4768.623
 CM-244 4320A 3/31/08 5795.020 5794.920
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2375.966
 Energy Calibration Slope : 4.872533
 Energy Calibration Quadratic : 3.6147263E-04
 Energy Calibration Range : 7744.000

Instrument : CHAMBER 047
 Detector : 30449
 Calibration Date/Time : 1-MAY-2007 12:44:33
 Calibration Source Id : AESS-047
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.200
 NP-237 4341 3/31/08 4768.800 4768.517
 CM-244 4320A 3/31/08 5795.020 5794.762
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2390.420
 Energy Calibration Slope : 4.900754
 Energy Calibration Quadratic : 3.4803906E-04
 Energy Calibration Range : 7774.000

Instrument : CHAMBER 048
 Detector : 42483
 Calibration Date/Time : 1-MAY-2007 12:44:42
 Calibration Source Id : AESS-048
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.869
 NP-237 4341 3/31/08 4768.800 4768.711
 CM-244 4320A 3/31/08 5795.020 5794.977
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2373.504
 Energy Calibration Slope : 4.937255
 Energy Calibration Quadratic : 3.0787755E-04
 Energy Calibration Range : 7752.000

Instrument : CHAMBER 065
 Detector : 21087
 Calibration Date/Time : 1-MAY-2007 16:20:12
 Calibration Source Id : AESS-001

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.715
CM-244	4320A	3/31/08	5795.020	5794.928

Energy/Channel Equation : see above
 Energy Calibration Zero : 2358.098
 Energy Calibration Slope : 4.944391
 Energy Calibration Quadratic : 3.5681631E-04
 Energy Calibration Range : 7795.000

Instrument : CHAMBER 066
 Detector : 64273
 Calibration Date/Time : 1-MAY-2007 16:20:24
 Calibration Source Id : AESS-002

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.626
NP-237	4341	3/31/08	4768.800	4768.736
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2360.373
 Energy Calibration Slope : 4.964041
 Energy Calibration Quadratic : 2.7958344E-04
 Energy Calibration Range : 7737.000

Instrument : CHAMBER 067
 Detector : 64269
 Calibration Date/Time : 1-MAY-2007 16:20:35
 Calibration Source Id : AESS-003

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.992
NP-237	4341	3/31/08	4768.800	4768.625
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2364.518
 Energy Calibration Slope : 4.889102
 Energy Calibration Quadratic : 3.2222172E-04
 Energy Calibration Range : 7709.000

Instrument : CHAMBER 068
 Detector : 64270
 Calibration Date/Time : 1-MAY-2007 16:20:49
 Calibration Source Id : AESS-004

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2341.388
 Energy Calibration Slope : 4.961030
 Energy Calibration Quadratic : 3.1723222E-04
 Energy Calibration Range : 7754.000

Instrument : CHAMBER 069
 Detector : 39172
 Calibration Date/Time : 1-MAY-2007 16:21:02
 Calibration Source Id : AESS-005

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.346
NP-237	4341	3/31/08	4768.800	4768.565
CM-244	4320A	3/31/08	5795.020	5795.019

Energy/Channel Equation : see above
 Energy Calibration Zero : 2403.230
 Energy Calibration Slope : 4.958314
 Energy Calibration Quadratic : 3.2419019E-04
 Energy Calibration Range : 7820.000

Instrument : CHAMBER 070
 Detector : 67615
 Calibration Date/Time : 1-MAY-2007 16:21:21
 Calibration Source Id : AESS-006

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3185.847
NP-237	4341	3/31/08	4768.800	4794.755
CM-244	4320A	3/31/08	5795.020	5837.733

Energy/Channel Equation : see above
 Energy Calibration Zero : 2434.976
 Energy Calibration Slope : 4.952961
 Energy Calibration Quadratic : 6.9076748E-04
 Energy Calibration Range : 8231.000

Instrument : CHAMBER 071
 Detector : 64259
 Calibration Date/Time : 1-MAY-2007 16:21:34
 Calibration Source Id : AESS-007

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2356.858
 Energy Calibration Slope : 4.909463
 Energy Calibration Quadratic : 3.2753733E-04
 Energy Calibration Range : 7728.000

Instrument : CHAMBER 072
 Detector : 45-149AA3
 Calibration Date/Time : 1-MAY-2007 16:22:06
 Calibration Source Id : AESS-008

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2359.320
 Energy Calibration Slope : 4.907756
 Energy Calibration Quadratic : 2.9838685E-04
 Energy Calibration Range : 7698.000

Instrument : CHAMBER 073
 Detector : 33211
 Calibration Date/Time : 1-MAY-2007 16:22:15
 Calibration Source Id : AESS-009

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.569
NP-237	4341	3/31/08	4768.800	4768.213
CM-244	4320A	3/31/08	5795.020	5794.730

Energy/Channel Equation : see above
 Energy Calibration Zero : 2376.873
 Energy Calibration Slope : 4.991349
 Energy Calibration Quadratic : 3.0895983E-04
 Energy Calibration Range : 7812.000

Instrument : CHAMBER 074
 Detector : 64258
 Calibration Date/Time : 1-MAY-2007 16:22:25
 Calibration Source Id : AESS-010

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.928
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2365.809
 Energy Calibration Slope : 4.875210
 Energy Calibration Quadratic : 3.3003764E-04
 Energy Calibration Range : 7704.000

Instrument : CHAMBER 075
 Detector : 68550
 Calibration Date/Time : 1-MAY-2007 16:22:34
 Calibration Source Id : AESS-011

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.802
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5794.835

Energy/Channel Equation : see above
 Energy Calibration Zero : 2338.138
 Energy Calibration Slope : 4.959885
 Energy Calibration Quadratic : 3.1975872E-04
 Energy Calibration Range : 7752.000

Instrument : CHAMBER 076
 Detector : 64261
 Calibration Date/Time : 1-MAY-2007 16:22:43
 Calibration Source Id : AESS-012

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.741
NP-237	4341	3/31/08	4768.800	4768.537
CM-244	4320A	3/31/08	5795.020	5794.818

Energy/Channel Equation : see above
 Energy Calibration Zero : 2352.461
 Energy Calibration Slope : 4.957906
 Energy Calibration Quadratic : 3.2845233E-04
 Energy Calibration Range : 7774.000

Instrument : CHAMBER 077
 Detector : 28239
 Calibration Date/Time : 1-MAY-2007 16:22:52
 Calibration Source Id : AESS-013

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.802
CM-244	4320A	3/31/08	5795.020	5795.019

Energy/Channel Equation : see above
 Energy Calibration Zero : 2379.327
 Energy Calibration Slope : 4.931228
 Energy Calibration Quadratic : 3.0732621E-04
 Energy Calibration Range : 7751.000

Instrument : CHAMBER 078
 Detector : 34425
 Calibration Date/Time : 1-MAY-2007 16:23:01
 Calibration Source Id : AESS-014

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.619
CM-244	4320A	3/31/08	5795.020	5794.939

Energy/Channel Equation : see above
 Energy Calibration Zero : 2401.299
 Energy Calibration Slope : 4.915717
 Energy Calibration Quadratic : 3.2901549E-04
 Energy Calibration Range : 7780.000

Instrument : CHAMBER 079
 Detector : 45-149AA2
 Calibration Date/Time : 1-MAY-2007 16:23:13
 Calibration Source Id : AESS-015

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.328
NP-237	4341	3/31/08	4768.800	4770.542
CM-244	4320A	3/31/08	5795.020	5796.136

Energy/Channel Equation : see above
 Energy Calibration Zero : 2349.529
 Energy Calibration Slope : 4.916865
 Energy Calibration Quadratic : 2.7356905E-04
 Energy Calibration Range : 7671.000

Instrument : CHAMBER 080
 Detector : 68546
 Calibration Date/Time : 1-MAY-2007 16:23:24
 Calibration Source Id : AESS-016
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.000
 NP-237 4341 3/31/08 4768.800 4768.708
 CM-244 4320A 3/31/08 5795.020 5794.848
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2353.130
 Energy Calibration Slope : 5.020657
 Energy Calibration Quadratic : 2.9144529E-04
 Energy Calibration Range : 7800.000

Instrument : CHAMBER 081
 Detector : 64271
 Calibration Date/Time : 1-MAY-2007 16:23:39
 Calibration Source Id : AESS-017
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.000
 NP-237 4341 3/31/08 4768.800 4769.023
 CM-244 4320A 3/31/08 5795.020 5795.084
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2358.594
 Energy Calibration Slope : 4.863892
 Energy Calibration Quadratic : 3.1606885E-04
 Energy Calibration Range : 7671.000

Instrument : CHAMBER 082
 Detector : 64263
 Calibration Date/Time : 1-MAY-2007 16:24:03
 Calibration Source Id : AESS-018
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.992
 NP-237 4341 3/31/08 4768.800 4768.716
 CM-244 4320A 3/31/08 5795.020 5794.922
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2363.116
 Energy Calibration Slope : 4.938817
 Energy Calibration Quadratic : 3.3271758E-04
 Energy Calibration Range : 7769.000

Instrument : CHAMBER 083
 Detector : 34436
 Calibration Date/Time : 1-MAY-2007 16:24:31
 Calibration Source Id : AESS-019
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.454
 NP-237 4341 3/31/08 4768.800 4768.335
 CM-244 4320A 3/31/08 5795.020 5794.686
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2360.135
 Energy Calibration Slope : 5.016467
 Energy Calibration Quadratic : 2.7015680E-04
 Energy Calibration Range : 7780.000

Instrument : CHAMBER 084
 Detector : 29953
 Calibration Date/Time : 1-MAY-2007 16:24:40
 Calibration Source Id : AESS-020
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.535
 NP-237 4341 3/31/08 4768.800 4768.090
 CM-244 4320A 3/31/08 5795.020 5794.790
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2379.838
 Energy Calibration Slope : 5.011193
 Energy Calibration Quadratic : 2.8579487E-04
 Energy Calibration Range : 7811.000

Instrument : CHAMBER 085
 Detector : 30451
 Calibration Date/Time : 1-MAY-2007 16:24:51
 Calibration Source Id : AESS-021
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3183.000
 NP-237 4341 3/31/08 4768.800 4768.554
 CM-244 4320A 3/31/08 5795.020 5795.020
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2393.271
 Energy Calibration Slope : 5.035317
 Energy Calibration Quadratic : 2.2879186E-04
 Energy Calibration Range : 7789.000

Instrument : CHAMBER 086
 Detector : 29278
 Calibration Date/Time : 1-MAY-2007 16:25:44
 Calibration Source Id : AESS-022

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4769.422
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2367.740
 Energy Calibration Slope : 4.986929
 Energy Calibration Quadratic : 2.5591420E-04
 Energy Calibration Range : 7743.000

Instrument : CHAMBER 087
 Detector : 34430
 Calibration Date/Time : 1-MAY-2007 16:25:55
 Calibration Source Id : AESS-023

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.454
NP-237	4341	3/31/08	4768.800	4768.410
CM-244	4320A	3/31/08	5795.020	5794.895

Energy/Channel Equation : see above
 Energy Calibration Zero : 2379.286
 Energy Calibration Slope : 4.991172
 Energy Calibration Quadratic : 2.5251607E-04
 Energy Calibration Range : 7755.000

Instrument : CHAMBER 088
 Detector : 30434
 Calibration Date/Time : 1-MAY-2007 16:26:16
 Calibration Source Id : AESS-024

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3178.700
NP-237	4341	3/31/08	4768.800	4764.950
CM-244	4320A	3/31/08	5795.020	5791.595

Energy/Channel Equation : see above
 Energy Calibration Zero : 2374.128
 Energy Calibration Slope : 4.968191
 Energy Calibration Quadratic : 2.0885524E-04
 Energy Calibration Range : 7681.000

Instrument : CHAMBER 089
 Detector : 21087
 Calibration Date/Time : 1-MAY-2007 16:26:26
 Calibration Source Id : AESS-025

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.746
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2345.752
 Energy Calibration Slope : 4.930207
 Energy Calibration Quadratic : 3.2943152E-04
 Energy Calibration Range : 7740.000

Instrument : CHAMBER 090
 Detector : 38159
 Calibration Date/Time : 1-MAY-2007 16:26:34
 Calibration Source Id : AESS-026

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5795.019

Energy/Channel Equation : see above
 Energy Calibration Zero : 2405.598
 Energy Calibration Slope : 4.952394
 Energy Calibration Quadratic : 3.5683223E-04
 Energy Calibration Range : 7851.000

Instrument : CHAMBER 091
 Detector : 33205
 Calibration Date/Time : 1-MAY-2007 16:26:43
 Calibration Source Id : AESS-027

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.761
NP-237	4341	3/31/08	4768.800	4768.747
CM-244	4320A	3/31/08	5795.020	5794.941

Energy/Channel Equation : see above
 Energy Calibration Zero : 2370.684
 Energy Calibration Slope : 4.935486
 Energy Calibration Quadratic : 3.3934796E-04
 Energy Calibration Range : 7780.000

Instrument : CHAMBER 092
 Detector : 67606
 Calibration Date/Time : 1-MAY-2007 16:26:52
 Calibration Source Id : AESS-028

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2333.129
 Energy Calibration Slope : 4.937245
 Energy Calibration Quadratic : 3.3737888E-04
 Energy Calibration Range : 7743.000

Instrument : CHAMBER 093
 Detector : 33206
 Calibration Date/Time : 1-MAY-2007 16:27:06
 Calibration Source Id : AESS-029

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5794.999

Energy/Channel Equation : see above
 Energy Calibration Zero : 2360.740
 Energy Calibration Slope : 4.873950
 Energy Calibration Quadratic : 3.4390111E-04
 Energy Calibration Range : 7712.000

Instrument : CHAMBER 094
 Detector : 33207
 Calibration Date/Time : 1-MAY-2007 16:27:15
 Calibration Source Id : AESS-030

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2374.356
 Energy Calibration Slope : 4.906109
 Energy Calibration Quadratic : 3.4070882E-04
 Energy Calibration Range : 7755.000

Instrument : CHAMBER 095
 Detector : 64267
 Calibration Date/Time : 1-MAY-2007 16:27:23
 Calibration Source Id : AESS-031

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.768
NP-237	4341	3/31/08	4768.800	4768.726
CM-244	4320A	3/31/08	5795.020	5794.958

Energy/Channel Equation : see above
 Energy Calibration Zero : 2359.668
 Energy Calibration Slope : 4.897764
 Energy Calibration Quadratic : 3.6665253E-04
 Energy Calibration Range : 7759.000

Instrument : CHAMBER 096
 Detector : 45-149BB3
 Calibration Date/Time : 1-MAY-2007 16:27:37
 Calibration Source Id : AESS-032

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.661
NP-237	4341	3/31/08	4768.800	4768.617
CM-244	4320A	3/31/08	5795.020	5794.721

Energy/Channel Equation : see above
 Energy Calibration Zero : 2338.483
 Energy Calibration Slope : 4.934877
 Energy Calibration Quadratic : 3.3412935E-04
 Energy Calibration Range : 7742.000

Instrument : CHAMBER 097
 Detector : 64266
 Calibration Date/Time : 1-MAY-2007 16:27:48
 Calibration Source Id : AESS-033

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.342
NP-237	4341	3/31/08	4768.800	4768.450
CM-244	4320A	3/31/08	5795.020	5794.826

Energy/Channel Equation : see above
 Energy Calibration Zero : 2354.421
 Energy Calibration Slope : 4.917585
 Energy Calibration Quadratic : 3.5723968E-04
 Energy Calibration Range : 7765.000

Instrument : CHAMBER 098
 Detector : 30431
 Calibration Date/Time : 1-MAY-2007 16:28:25
 Calibration Source Id : AESS-034

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.426
NP-237	4341	3/31/08	4768.800	4768.233
CM-244	4320A	3/31/08	5795.020	5794.696

Energy/Channel Equation : see above
 Energy Calibration Zero : 2394.717
 Energy Calibration Slope : 4.940518
 Energy Calibration Quadratic : 3.2381353E-04
 Energy Calibration Range : 7793.000

Instrument : CHAMBER 099
 Detector : 64272
 Calibration Date/Time : 1-MAY-2007 16:28:36
 Calibration Source Id : AESS-035

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.424
NP-237	4341	3/31/08	4768.800	4768.642
CM-244	4320A	3/31/08	5795.020	5794.831

Energy/Channel Equation : see above
 Energy Calibration Zero : 2392.641
 Energy Calibration Slope : 4.849528
 Energy Calibration Quadratic : 3.7810171E-04
 Energy Calibration Range : 7755.000

Instrument : CHAMBER 100
 Detector : 42468
 Calibration Date/Time : 1-MAY-2007 16:28:45
 Calibration Source Id : AESS-036

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.468
NP-237	4341	3/31/08	4768.800	4768.521
CM-244	4320A	3/31/08	5795.020	5794.822

Energy/Channel Equation : see above
 Energy Calibration Zero : 2386.051
 Energy Calibration Slope : 4.961524
 Energy Calibration Quadratic : 3.1673585E-04
 Energy Calibration Range : 7799.000

Instrument : CHAMBER 101
 Detector : 64253
 Calibration Date/Time : 1-MAY-2007 16:28:55
 Calibration Source Id : AESS-037

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2391.254
 Energy Calibration Slope : 4.904531
 Energy Calibration Quadratic : 3.5271182E-04
 Energy Calibration Range : 7783.000

Instrument : CHAMBER 102
 Detector : 30438
 Calibration Date/Time : 1-MAY-2007 16:29:08
 Calibration Source Id : AESS-038

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.524
NP-237	4341	3/31/08	4768.800	4768.555
CM-244	4320A	3/31/08	5795.020	5794.885

Energy/Channel Equation : see above
 Energy Calibration Zero : 2399.287
 Energy Calibration Slope : 4.954862
 Energy Calibration Quadratic : 3.5089548E-04
 Energy Calibration Range : 7841.000

Instrument : CHAMBER 103
 Detector : 64252
 Calibration Date/Time : 1-MAY-2007 16:29:18
 Calibration Source Id : AESS-039

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.684
NP-237	4341	3/31/08	4768.800	4768.709
CM-244	4320A	3/31/08	5795.020	5794.890

Energy/Channel Equation : see above
 Energy Calibration Zero : 2357.726
 Energy Calibration Slope : 4.894815
 Energy Calibration Quadratic : 3.6839207E-04
 Energy Calibration Range : 7756.000

Instrument : CHAMBER 104
 Detector : 30436
 Calibration Date/Time : 1-MAY-2007 16:29:37
 Calibration Source Id : AESS-040
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.521
 NP-237 4341 3/31/08 4768.800 4768.743
 CM-244 4320A 3/31/08 5795.020 5794.958
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2405.256
 Energy Calibration Slope : 4.907826
 Energy Calibration Quadratic : 3.6706630E-04
 Energy Calibration Range : 7816.000

Instrument : CHAMBER 105
 Detector : 64254
 Calibration Date/Time : 1-MAY-2007 16:29:52
 Calibration Source Id : AESS-041
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.614
 NP-237 4341 3/31/08 4768.800 4768.606
 CM-244 4320A 3/31/08 5795.020 5794.942
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2388.758
 Energy Calibration Slope : 4.910378
 Energy Calibration Quadratic : 3.4000803E-04
 Energy Calibration Range : 7774.000

Instrument : CHAMBER 106
 Detector : 64274
 Calibration Date/Time : 1-MAY-2007 16:30:01
 Calibration Source Id : AESS-042
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.742
 NP-237 4341 3/31/08 4768.800 4768.696
 CM-244 4320A 3/31/08 5795.020 5794.938
 Energy/Channel Equation : see above
 Energy Calibration Zero : 2371.563
 Energy Calibration Slope : 4.919622
 Energy Calibration Quadratic : 3.4931648E-04
 Energy Calibration Range : 7776.000

Instrument : CHAMBER 107
 Detector : 68569
 Calibration Date/Time : 1-MAY-2007 16:30:17
 Calibration Source Id : AESS-043

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3179.823
NP-237	4341	3/31/08	4768.800	4766.208
CM-244	4320A	3/31/08	5795.020	5791.133

Energy/Channel Equation : see above
 Energy Calibration Zero : 2433.200
 Energy Calibration Slope : 5.167422
 Energy Calibration Quadratic : 3.6284071E-04
 Energy Calibration Range : 8105.000

Instrument : CHAMBER 108
 Detector : 64255
 Calibration Date/Time : 1-MAY-2007 16:30:41
 Calibration Source Id : AESS-044

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.802
CM-244	4320A	3/31/08	5795.020	5794.925

Energy/Channel Equation : see above
 Energy Calibration Zero : 2365.656
 Energy Calibration Slope : 4.884348
 Energy Calibration Quadratic : 3.7133240E-04
 Energy Calibration Range : 7757.000

Instrument : CHAMBER 109
 Detector : 64256
 Calibration Date/Time : 1-MAY-2007 16:30:50
 Calibration Source Id : AESS-045

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.817
NP-237	4341	3/31/08	4768.800	4768.740
CM-244	4320A	3/31/08	5795.020	5794.959

Energy/Channel Equation : see above
 Energy Calibration Zero : 2362.649
 Energy Calibration Slope : 4.878393
 Energy Calibration Quadratic : 3.6304948E-04
 Energy Calibration Range : 7739.000

Instrument : CHAMBER 110
 Detector : 67603
 Calibration Date/Time : 1-MAY-2007 16:30:59
 Calibration Source Id : AESS-046
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.867
 NP-237 4341 3/31/08 4768.800 4768.725
 CM-244 4320A 3/31/08 5795.020 5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2375.215
 Energy Calibration Slope : 4.899034
 Energy Calibration Quadratic : 3.5565588E-04
 Energy Calibration Range : 7765.000

Instrument : CHAMBER 111
 Detector : 30448
 Calibration Date/Time : 1-MAY-2007 16:31:09
 Calibration Source Id : AESS-047
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.646
 NP-237 4341 3/31/08 4768.800 4768.647
 CM-244 4320A 3/31/08 5795.020 5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2392.169
 Energy Calibration Slope : 4.934318
 Energy Calibration Quadratic : 3.2138661E-04
 Energy Calibration Range : 7782.000

Instrument : CHAMBER 112
 Detector : 30449
 Calibration Date/Time : 1-MAY-2007 16:31:19
 Calibration Source Id : AESS-048
 Cal. Isotopes Source Id Expiration Date Standard Energy Actual Energy
 GD-148 6445-278 3/31/08 3183.000 3182.673
 NP-237 4341 3/31/08 4768.800 4768.747
 CM-244 4320A 3/31/08 5795.020 5794.955

Energy/Channel Equation : see above
 Energy Calibration Zero : 2374.924
 Energy Calibration Slope : 4.869170
 Energy Calibration Quadratic : 3.5221956E-04
 Energy Calibration Range : 7730.000

Instrument : CHAMBER 113
 Detector : 45-111B4
 Calibration Date/Time : 2-MAY-2007 12:25:20
 Calibration Source Id : AESS-001

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5795.284

Energy/Channel Equation : see above
 Energy Calibration Zero : 2384.119
 Energy Calibration Slope : 4.960293
 Energy Calibration Quadratic : 3.1953506E-04
 Energy Calibration Range : 7799.000

Instrument : CHAMBER 114
 Detector : 45-111B5
 Calibration Date/Time : 2-MAY-2007 12:25:34
 Calibration Source Id : AESS-007

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2388.345
 Energy Calibration Slope : 4.985679
 Energy Calibration Quadratic : 2.6567173E-04
 Energy Calibration Range : 7772.000

Instrument : CHAMBER 115
 Detector : 30453
 Calibration Date/Time : 2-MAY-2007 12:25:49
 Calibration Source Id : AESS-002

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2350.201
 Energy Calibration Slope : 4.919106
 Energy Calibration Quadratic : 3.4428894E-04
 Energy Calibration Range : 7748.000

Instrument : CHAMBER 116
 Detector : 45-132FF2
 Calibration Date/Time : 2-MAY-2007 12:26:00
 Calibration Source Id : AESS-008

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.544
CM-244	4320A	3/31/08	5795.020	5795.019

Energy/Channel Equation : see above
 Energy Calibration Zero : 2374.458
 Energy Calibration Slope : 4.974710
 Energy Calibration Quadratic : 2.9715986E-04
 Energy Calibration Range : 7780.000

Instrument : CHAMBER 117
 Detector : 45-132FF3
 Calibration Date/Time : 2-MAY-2007 12:26:09
 Calibration Source Id : AESS-003

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.326
CM-244	4320A	3/31/08	5795.020	5794.395

Energy/Channel Equation : see above
 Energy Calibration Zero : 2398.591
 Energy Calibration Slope : 5.013951
 Energy Calibration Quadratic : 2.5565585E-04
 Energy Calibration Range : 7801.000

Instrument : CHAMBER 118
 Detector : 45-132FF4
 Calibration Date/Time : 2-MAY-2007 12:26:20
 Calibration Source Id : AESS-009

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2389.474
 Energy Calibration Slope : 4.972632
 Energy Calibration Quadratic : 3.0118530E-04
 Energy Calibration Range : 7797.000

Instrument : CHAMBER 119
 Detector : 45-132FF5
 Calibration Date/Time : 2-MAY-2007 12:26:32
 Calibration Source Id : AESS-004

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.281
CM-244	4320A	3/31/08	5795.020	5794.796

Energy/Channel Equation : see above
 Energy Calibration Zero : 2400.430
 Energy Calibration Slope : 4.964219
 Energy Calibration Quadratic : 2.8763784E-04
 Energy Calibration Range : 7785.000

Instrument : CHAMBER 120
 Detector : 45-142F1
 Calibration Date/Time : 2-MAY-2007 12:26:45
 Calibration Source Id : AESS-010

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.987
NP-237	4341	3/31/08	4768.800	4768.525
CM-244	4320A	3/31/08	5795.020	5794.724

Energy/Channel Equation : see above
 Energy Calibration Zero : 2378.991
 Energy Calibration Slope : 4.983321
 Energy Calibration Quadratic : 2.5867991E-04
 Energy Calibration Range : 7753.000

Instrument : CHAMBER 121
 Detector : 45-142J4
 Calibration Date/Time : 2-MAY-2007 12:26:57
 Calibration Source Id : AESS-005

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.301
NP-237	4341	3/31/08	4768.800	4768.528
CM-244	4320A	3/31/08	5795.020	5794.548

Energy/Channel Equation : see above
 Energy Calibration Zero : 2392.209
 Energy Calibration Slope : 4.981168
 Energy Calibration Quadratic : 2.8333487E-04
 Energy Calibration Range : 7790.000

Instrument : CHAMBER 122
 Detector : 67605
 Calibration Date/Time : 2-MAY-2007 12:27:18
 Calibration Source Id : AESS-011

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3181.904
NP-237	4341	3/31/08	4768.800	4768.085
CM-244	4320A	3/31/08	5795.020	5794.285

Energy/Channel Equation : see above
 Energy Calibration Zero : 2357.538
 Energy Calibration Slope : 4.911543
 Energy Calibration Quadratic : 3.4291233E-04
 Energy Calibration Range : 7747.000

Instrument : CHAMBER 123
 Detector : 45-149BB4
 Calibration Date/Time : 2-MAY-2007 12:27:45
 Calibration Source Id : AESS-006

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.385
NP-237	4341	3/31/08	4768.800	4768.161
CM-244	4320A	3/31/08	5795.020	5794.739

Energy/Channel Equation : see above
 Energy Calibration Zero : 2384.402
 Energy Calibration Slope : 4.973166
 Energy Calibration Quadratic : 2.8227380E-04
 Energy Calibration Range : 7773.000

Instrument : CHAMBER 124
 Detector : 45-142V2
 Calibration Date/Time : 2-MAY-2007 12:27:57
 Calibration Source Id : AESS-012

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2397.289
 Energy Calibration Slope : 5.012676
 Energy Calibration Quadratic : 2.4273667E-04
 Energy Calibration Range : 7785.000

Instrument : CHAMBER 125
 Detector : 45-142V3
 Calibration Date/Time : 2-MAY-2007 12:28:07
 Calibration Source Id : AESS-013

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2393.853
 Energy Calibration Slope : 4.974651
 Energy Calibration Quadratic : 2.6941038E-04
 Energy Calibration Range : 7770.000

Instrument : CHAMBER 126
 Detector : 68547
 Calibration Date/Time : 2-MAY-2007 12:28:17
 Calibration Source Id : AESS-019

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2361.416
 Energy Calibration Slope : 4.985561
 Energy Calibration Quadratic : 2.6554285E-04
 Energy Calibration Range : 7745.000

Instrument : CHAMBER 127
 Detector : 45-142W1
 Calibration Date/Time : 2-MAY-2007 12:28:27
 Calibration Source Id : AESS-014

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5795.019

Energy/Channel Equation : see above
 Energy Calibration Zero : 2397.012
 Energy Calibration Slope : 4.968858
 Energy Calibration Quadratic : 2.8503686E-04
 Energy Calibration Range : 7784.000

Instrument : CHAMBER 128
 Detector : 68548
 Calibration Date/Time : 2-MAY-2007 12:28:37
 Calibration Source Id : AESS-020

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.307
CM-244	4320A	3/31/08	5795.020	5794.762

Energy/Channel Equation : see above
 Energy Calibration Zero : 2347.861
 Energy Calibration Slope : 4.953351
 Energy Calibration Quadratic : 3.0512104E-04
 Energy Calibration Range : 7740.000

Instrument : CHAMBER 129
 Detector : 45-142W3
 Calibration Date/Time : 2-MAY-2007 12:28:47
 Calibration Source Id : AESS-015

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2403.072
 Energy Calibration Slope : 4.968061
 Energy Calibration Quadratic : 2.8494667E-04
 Energy Calibration Range : 7789.000

Instrument : CHAMBER 130
 Detector : 67043
 Calibration Date/Time : 2-MAY-2007 12:28:59
 Calibration Source Id : AESS-021

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.248
NP-237	4341	3/31/08	4768.800	4767.331
CM-244	4320A	3/31/08	5795.020	5793.736

Energy/Channel Equation : see above
 Energy Calibration Zero : 2362.898
 Energy Calibration Slope : 4.946414
 Energy Calibration Quadratic : 2.9096697E-04
 Energy Calibration Range : 7733.000

Instrument : CHAMBER 131
 Detector : 58880
 Calibration Date/Time : 2-MAY-2007 12:29:09
 Calibration Source Id : AESS-016

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3181.366
NP-237	4341	3/31/08	4768.800	4767.355
CM-244	4320A	3/31/08	5795.020	5794.589

Energy/Channel Equation : see above
 Energy Calibration Zero : 2374.170
 Energy Calibration Slope : 4.954771
 Energy Calibration Quadratic : 2.9278881E-04
 Energy Calibration Range : 7755.000

Instrument : CHAMBER 132
 Detector : 61574
 Calibration Date/Time : 2-MAY-2007 12:29:19
 Calibration Source Id : AESS-022

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3181.255
NP-237	4341	3/31/08	4768.800	4766.566
CM-244	4320A	3/31/08	5795.020	5793.938

Energy/Channel Equation : see above
 Energy Calibration Zero : 2363.311
 Energy Calibration Slope : 5.015223
 Energy Calibration Quadratic : 2.5546490E-04
 Energy Calibration Range : 7767.000

Instrument : CHAMBER 133
 Detector : 45-145K3
 Calibration Date/Time : 2-MAY-2007 12:29:34
 Calibration Source Id : AESS-017

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.994
NP-237	4341	3/31/08	4768.800	4767.976
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2370.127
 Energy Calibration Slope : 4.969217
 Energy Calibration Quadratic : 2.5254345E-04
 Energy Calibration Range : 7723.000

Instrument : CHAMBER 134
 Detector : 67604
 Calibration Date/Time : 2-MAY-2007 12:29:46
 Calibration Source Id : AESS-023

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.473
NP-237	4341	3/31/08	4768.800	4767.905
CM-244	4320A	3/31/08	5795.020	5794.557

Energy/Channel Equation : see above
 Energy Calibration Zero : 2353.388
 Energy Calibration Slope : 4.955218
 Energy Calibration Quadratic : 2.8918806E-04
 Energy Calibration Range : 7731.000

Instrument : CHAMBER 135
 Detector : 45-145K5
 Calibration Date/Time : 2-MAY-2007 12:29:56
 Calibration Source Id : AESS-018

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4767.931
CM-244	4320A	3/31/08	5795.020	5794.711

Energy/Channel Equation : see above
 Energy Calibration Zero : 2379.174
 Energy Calibration Slope : 4.937889
 Energy Calibration Quadratic : 2.7585434E-04
 Energy Calibration Range : 7725.000

Instrument : CHAMBER 136
 Detector : 68549
 Calibration Date/Time : 2-MAY-2007 12:30:13
 Calibration Source Id : AESS-024

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3181.863
NP-237	4341	3/31/08	4768.800	4767.155
CM-244	4320A	3/31/08	5795.020	5793.840

Energy/Channel Equation : see above
 Energy Calibration Zero : 2341.491
 Energy Calibration Slope : 4.915893
 Energy Calibration Quadratic : 2.8539283E-04
 Energy Calibration Range : 7675.000

Instrument : CHAMBER 137
 Detector : 64288
 Calibration Date/Time : 2-MAY-2007 12:30:24
 Calibration Source Id : AESS-025

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.556
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2381.404
 Energy Calibration Slope : 4.930280
 Energy Calibration Quadratic : 3.5805811E-04
 Energy Calibration Range : 7805.000

Instrument : CHAMBER 138
 Detector : 65877
 Calibration Date/Time : 2-MAY-2007 12:30:37
 Calibration Source Id : AESS-031

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.489
NP-237	4341	3/31/08	4768.800	4768.938
CM-244	4320A	3/31/08	5795.020	5795.233

Energy/Channel Equation : see above
 Energy Calibration Zero : 2386.643
 Energy Calibration Slope : 4.921495
 Energy Calibration Quadratic : 3.6123605E-04
 Energy Calibration Range : 7805.000

Instrument : CHAMBER 139
 Detector : 65878
 Calibration Date/Time : 2-MAY-2007 12:30:50
 Calibration Source Id : AESS-026

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5794.917

Energy/Channel Equation : see above
 Energy Calibration Zero : 2375.944
 Energy Calibration Slope : 4.913365
 Energy Calibration Quadratic : 3.6629205E-04
 Energy Calibration Range : 7791.000

Instrument : CHAMBER 140
 Detector : 65879
 Calibration Date/Time : 2-MAY-2007 12:31:01
 Calibration Source Id : AESS-032

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2378.842
 Energy Calibration Slope : 4.906835
 Energy Calibration Quadratic : 3.7374481E-04
 Energy Calibration Range : 7795.000

Instrument : CHAMBER 141
 Detector : 65880
 Calibration Date/Time : 2-MAY-2007 12:31:11
 Calibration Source Id : AESS-027

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.605
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2387.000
 Energy Calibration Slope : 4.912621
 Energy Calibration Quadratic : 3.6073072E-04
 Energy Calibration Range : 7796.000

Instrument : CHAMBER 142
 Detector : 65881
 Calibration Date/Time : 2-MAY-2007 12:31:25
 Calibration Source Id : AESS-033

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.907
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2394.615
 Energy Calibration Slope : 4.924130
 Energy Calibration Quadratic : 3.5976383E-04
 Energy Calibration Range : 7814.000

Instrument : CHAMBER 143
 Detector : 65882
 Calibration Date/Time : 2-MAY-2007 12:31:42
 Calibration Source Id : AESS-028

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.596
NP-237	4341	3/31/08	4768.800	4768.484
CM-244	4320A	3/31/08	5795.020	5794.759

Energy/Channel Equation : see above
 Energy Calibration Zero : 2391.194
 Energy Calibration Slope : 4.911222
 Energy Calibration Quadratic : 3.6632945E-04
 Energy Calibration Range : 7804.000

Instrument : CHAMBER 144
 Detector : 65883
 Calibration Date/Time : 2-MAY-2007 12:31:59
 Calibration Source Id : AESS-034

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3180.345
NP-237	4341	3/31/08	4768.800	4766.088
CM-244	4320A	3/31/08	5795.020	5789.098

Energy/Channel Equation : see above
 Energy Calibration Zero : 2388.579
 Energy Calibration Slope : 4.944405
 Energy Calibration Quadratic : 3.4326661E-04
 Energy Calibration Range : 7812.000

Instrument : CHAMBER 145
 Detector : 65884
 Calibration Date/Time : 2-MAY-2007 12:32:11
 Calibration Source Id : AESS-029

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.511
NP-237	4341	3/31/08	4768.800	4768.241
CM-244	4320A	3/31/08	5795.020	5794.882

Energy/Channel Equation : see above
 Energy Calibration Zero : 2392.006
 Energy Calibration Slope : 4.931377
 Energy Calibration Quadratic : 3.6776671E-04
 Energy Calibration Range : 7827.000

Instrument : CHAMBER 146
 Detector : 65885
 Calibration Date/Time : 2-MAY-2007 12:32:22
 Calibration Source Id : AESS-035

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3181.954
NP-237	4341	3/31/08	4768.800	4768.314
CM-244	4320A	3/31/08	5795.020	5794.722

Energy/Channel Equation : see above
 Energy Calibration Zero : 2385.250
 Energy Calibration Slope : 4.902868
 Energy Calibration Quadratic : 3.5325659E-04
 Energy Calibration Range : 7776.000

Instrument : CHAMBER 147
 Detector : 65886
 Calibration Date/Time : 2-MAY-2007 12:32:33
 Calibration Source Id : AESS-030

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3181.785
NP-237	4341	3/31/08	4768.800	4767.878
CM-244	4320A	3/31/08	5795.020	5794.408

Energy/Channel Equation : see above
 Energy Calibration Zero : 2387.600
 Energy Calibration Slope : 4.943023
 Energy Calibration Quadratic : 3.3166620E-04
 Energy Calibration Range : 7797.000

Instrument : CHAMBER 148
 Detector : 65887
 Calibration Date/Time : 2-MAY-2007 12:32:44
 Calibration Source Id : AESS-036

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.335
NP-237	4341	3/31/08	4768.800	4768.439
CM-244	4320A	3/31/08	5795.020	5794.811

Energy/Channel Equation : see above
 Energy Calibration Zero : 2378.556
 Energy Calibration Slope : 4.946807
 Energy Calibration Quadratic : 3.2171790E-04
 Energy Calibration Range : 7781.000

Instrument : CHAMBER 149
 Detector : 65888
 Calibration Date/Time : 2-MAY-2007 12:32:54
 Calibration Source Id : AESS-037

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2390.033
 Energy Calibration Slope : 4.908651
 Energy Calibration Quadratic : 3.7378594E-04
 Energy Calibration Range : 7808.000

Instrument : CHAMBER 150
 Detector : 65889
 Calibration Date/Time : 2-MAY-2007 12:33:04
 Calibration Source Id : AESS-043

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2381.228
 Energy Calibration Slope : 4.948192
 Energy Calibration Quadratic : 3.4489567E-04
 Energy Calibration Range : 7810.000

Instrument : CHAMBER 151
 Detector : 46-089B1
 Calibration Date/Time : 2-MAY-2007 12:33:15
 Calibration Source Id : AESS-038

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.801
CM-244	4320A	3/31/08	5795.020	5795.019

Energy/Channel Equation : see above
 Energy Calibration Zero : 2368.188
 Energy Calibration Slope : 4.915895
 Energy Calibration Quadratic : 3.4906005E-04
 Energy Calibration Range : 7768.000

Instrument : CHAMBER 152
 Detector : 46-089B2
 Calibration Date/Time : 2-MAY-2007 12:33:28
 Calibration Source Id : AESS-044

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4769.047
CM-244	4320A	3/31/08	5795.020	5795.231

Energy/Channel Equation : see above
 Energy Calibration Zero : 2376.796
 Energy Calibration Slope : 4.892251
 Energy Calibration Quadratic : 3.6793973E-04
 Energy Calibration Range : 7772.000

Instrument : CHAMBER 153
 Detector : 46-089B3
 Calibration Date/Time : 2-MAY-2007 12:33:38
 Calibration Source Id : AESS-039

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.993
NP-237	4341	3/31/08	4768.800	4768.800
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2370.835
 Energy Calibration Slope : 4.919683
 Energy Calibration Quadratic : 3.5075823E-04
 Energy Calibration Range : 7776.000

Instrument : CHAMBER 154
 Detector : 46-089B4
 Calibration Date/Time : 2-MAY-2007 12:33:48
 Calibration Source Id : AESS-045

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.605
NP-237	4341	3/31/08	4768.800	4768.799
CM-244	4320A	3/31/08	5795.020	5795.021

Energy/Channel Equation : see above
 Energy Calibration Zero : 2378.368
 Energy Calibration Slope : 4.911572
 Energy Calibration Quadratic : 3.4896872E-04
 Energy Calibration Range : 7774.000

Instrument : CHAMBER 155
 Detector : 67044
 Calibration Date/Time : 2-MAY-2007 12:33:58
 Calibration Source Id : AESS-040

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.562
NP-237	4341	3/31/08	4768.800	4768.435
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2381.130
 Energy Calibration Slope : 4.927634
 Energy Calibration Quadratic : 3.6515732E-04
 Energy Calibration Range : 7810.000

Instrument : CHAMBER 156
 Detector : 67045
 Calibration Date/Time : 2-MAY-2007 12:34:10
 Calibration Source Id : AESS-046

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.626
CM-244	4320A	3/31/08	5795.020	5795.020

Energy/Channel Equation : see above
 Energy Calibration Zero : 2381.475
 Energy Calibration Slope : 4.905248
 Energy Calibration Quadratic : 3.9301001E-04
 Energy Calibration Range : 7817.000

Instrument : CHAMBER 157
 Detector : 67046
 Calibration Date/Time : 2-MAY-2007 12:34:21
 Calibration Source Id : AESS-041

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.647
NP-237	4341	3/31/08	4768.800	4768.529
CM-244	4320A	3/31/08	5795.020	5794.862

Energy/Channel Equation : see above
 Energy Calibration Zero : 2378.051
 Energy Calibration Slope : 4.913197
 Energy Calibration Quadratic : 3.7948086E-04
 Energy Calibration Range : 7807.000

Instrument : CHAMBER 158
 Detector : 67047
 Calibration Date/Time : 2-MAY-2007 12:34:33
 Calibration Source Id : AESS-047

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3183.000
NP-237	4341	3/31/08	4768.800	4768.554
CM-244	4320A	3/31/08	5795.020	5794.830

Energy/Channel Equation : see above
 Energy Calibration Zero : 2375.335
 Energy Calibration Slope : 4.920066
 Energy Calibration Quadratic : 3.7221995E-04
 Energy Calibration Range : 7804.000

Instrument : CHAMBER 159
 Detector : 67048
 Calibration Date/Time : 2-MAY-2007 12:34:46
 Calibration Source Id : AESS-042

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.631
NP-237	4341	3/31/08	4768.800	4768.289
CM-244	4320A	3/31/08	5795.020	5794.754

Energy/Channel Equation : see above
 Energy Calibration Zero : 2377.623
 Energy Calibration Slope : 4.926735
 Energy Calibration Quadratic : 3.6403764E-04
 Energy Calibration Range : 7804.000

Instrument : CHAMBER 160
 Detector : 67049
 Calibration Date/Time : 2-MAY-2007 12:34:56
 Calibration Source Id : AESS-048

Cal. Isotopes	Source Id	Expiration Date	Standard Energy	Actual Energy
GD-148	6445-278	3/31/08	3183.000	3182.621
NP-237	4341	3/31/08	4768.800	4768.681
CM-244	4320A	3/31/08	5795.020	5794.868

Energy/Channel Equation : see above
 Energy Calibration Zero : 2375.700
 Energy Calibration Slope : 4.901970
 Energy Calibration Quadratic : 3.8524438E-04
 Energy Calibration Range : 7799.000

Subsection 2: Background Calibration

Instrument : CHAMBER 001
 Detector : 67602
 Background Analysis Date/Time : 29-APR-2007 16:13:17
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.380	3300.357	3.000000	0.7200001	57.73503	95.00000
NP-237	4436.393	4902.855	6.000000	1.440000	40.82483	95.00000
CM-244	5534.595	5883.549	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 002
 Detector : 45-149AA4
 Background Analysis Date/Time : 29-APR-2007 16:13:17
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.654	3302.381	1.000000	0.2400001	100.0000	95.00000
NP-237	4437.583	4902.208	8.000000	1.920000	35.35534	95.00000
CM-244	5535.453	5887.058	20.00000	4.800001	22.36068	95.00000

Instrument : CHAMBER 003
 Detector : 20659
 Background Analysis Date/Time : 29-APR-2007 16:13:17
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.055	3300.335	2.000000	0.4800001	70.71068	95.00000
NP-237	4437.279	4905.188	17.00000	4.080001	24.25356	95.00000
CM-244	5532.635	5887.096	26.00000	6.240001	19.61161	95.00000

Instrument : CHAMBER 004
 Detector : 64279
 Background Analysis Date/Time : 29-APR-2007 16:13:17
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.293	3301.156	1.000000	0.2400001	100.0000	95.00000
NP-237	4436.419	4906.535	6.000000	1.440000	40.82483	95.00000
CM-244	5531.541	5885.390	3.000000	0.7200001	57.73503	95.00000

Instrument : CHAMBER 005
 Detector : 28642
 Background Analysis Date/Time : 29-APR-2007 16:13:17
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.369	3297.647	4.000000	0.9600002	50.00000	95.00000
NP-237	4435.878	4906.236	11.00000	2.640001	30.15113	95.00000
CM-244	5530.719	5883.861	27.00000	6.480001	19.24501	95.00000

Instrument : CHAMBER 006
 Detector : 65890
 Background Analysis Date/Time : 29-APR-2007 16:13:17
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.060	3301.408	3.000000	0.7200001	57.73503	95.00000
NP-237	4436.233	4903.836	1.000000	0.2400001	100.0000	95.00000
CM-244	5531.367	5886.119	19.00000	4.560001	22.94157	95.00000

Instrument : CHAMBER 007
 Detector : 67607
 Background Analysis Date/Time : 29-APR-2007 16:13:18
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.637	3302.446	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.294	4902.153	11.00000	2.640000	30.15113	95.00000
CM-244	5534.094	5883.000	2.000000	0.4800001	70.71068	95.00000

Instrument : CHAMBER 008
 Detector : 67608
 Background Analysis Date/Time : 29-APR-2007 16:13:18
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.153	3301.438	2.000000	0.4800001	70.71068	95.00000
NP-237	4434.507	4904.855	11.00000	2.640000	30.15113	95.00000
CM-244	5534.683	5882.517	6.000000	1.440000	40.82483	95.00000

Instrument : CHAMBER 009
 Detector : 13285
 Background Analysis Date/Time : 29-APR-2007 16:13:18
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.674	3301.916	3.000000	0.7200001	57.73503	95.00000
NP-237	4434.878	4904.893	14.00000	3.360001	26.72612	95.00000
CM-244	5531.500	5884.726	48.00000	11.52000	14.43376	95.00000

Instrument : CHAMBER 010
 Detector : 67614
 Background Analysis Date/Time : 29-APR-2007 16:13:18
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.398	3299.336	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.356	4903.029	7.000000	1.680000	37.79645	95.00000
CM-244	5535.638	5884.704	7.000000	1.680000	37.79645	95.00000

Instrument : CHAMBER 011
 Detector : 9537
 Background Analysis Date/Time : 29-APR-2007 16:13:18
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.403	3301.269	15.00000	3.600001	25.81989	95.00000
NP-237	4433.162	4904.481	14.00000	3.360001	26.72612	95.00000
CM-244	5534.355	5884.836	36.00000	8.640001	16.66667	95.00000

Instrument : CHAMBER 012
 Detector : 33085
 Background Analysis Date/Time : 29-APR-2007 16:13:18
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.934	3300.644	2.000000	0.4800001	70.71068	95.00000
NP-237	4434.029	4906.413	9.000000	2.160000	33.33334	95.00000
CM-244	5530.988	5886.052	21.00000	5.040001	21.82179	95.00000

Instrument : CHAMBER 013
 Detector : 21084
 Background Analysis Date/Time : 29-APR-2007 16:13:19
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.703	3298.500	1.000000	0.2400001	100.0000	95.00000
NP-237	4437.055	4903.203	3.000000	0.7200001	57.73503	95.00000
CM-244	5535.151	5884.524	17.00000	4.080001	24.25356	95.00000

Instrument : CHAMBER 014
 Detector : 67616
 Background Analysis Date/Time : 29-APR-2007 16:13:19
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.288	3300.146	1.000000	0.2400001	100.0000	95.00000
NP-237	4435.408	4904.168	3.000000	0.7200001	57.73503	95.00000
CM-244	5534.104	5885.210	15.00000	3.600001	25.81989	95.00000

Instrument : CHAMBER 015
 Detector : 61581
 Background Analysis Date/Time : 29-APR-2007 16:13:19
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.847	3297.498	2.000000	0.4800001	70.71068	95.00000
NP-237	4435.843	4904.591	5.000000	1.200000	44.72136	95.00000
CM-244	5532.612	5884.968	24.00000	5.760001	20.41241	95.00000

Instrument : CHAMBER 016
 Detector : 21086
 Background Analysis Date/Time : 29-APR-2007 16:13:19
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.301	3302.433	2.000000	0.4800001	70.71068	95.00000
NP-237	4437.532	4903.155	13.00000	3.120001	27.73501	95.00000
CM-244	5532.509	5882.804	55.00000	13.20000	13.48400	95.00000

Instrument : CHAMBER 017
 Detector : 33203
 Background Analysis Date/Time : 29-APR-2007 16:13:19
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.557	3299.721	3.000000	0.7200001	57.73503	95.00000
NP-237	4435.492	4901.432	2.000000	0.4800001	70.71068	95.00000
CM-244	5532.098	5885.662	24.00000	5.760001	20.41241	95.00000

Instrument : CHAMBER 018
 Detector : 21063
 Background Analysis Date/Time : 29-APR-2007 16:13:19
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.725	3300.113	4.000000	0.9600002	50.00000	95.00000
NP-237	4437.223	4906.479	9.000000	2.160001	33.33334	95.00000
CM-244	5534.259	5886.034	23.00000	5.520001	20.85144	95.00000

Instrument : CHAMBER 019
 Detector : 64268
 Background Analysis Date/Time : 29-APR-2007 16:13:20
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.767	3298.781	2.000000	0.4800001	70.71068	95.00000
NP-237	4437.361	4902.707	2.000000	0.4800001	70.71068	95.00000
CM-244	5531.033	5882.536	9.000000	2.160000	33.33334	95.00000

Instrument : CHAMBER 020
 Detector : 33093
 Background Analysis Date/Time : 29-APR-2007 16:13:20
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.187	3300.862	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4433.841	4904.606	2.000000	0.4800001	70.71068	95.00000
CM-244	5533.546	5885.553	47.00000	11.28000	14.58650	95.00000

Instrument : CHAMBER 021
 Detector : 67610
 Background Analysis Date/Time : 29-APR-2007 16:13:20
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.951	3298.948	4.000000	0.9600002	50.00000	95.00000
NP-237	4432.484	4902.044	16.00000	3.840001	25.00000	95.00000
CM-244	5535.271	5887.028	10.00000	2.400000	31.62278	95.00000

Instrument : CHAMBER 022
 Detector : 33894
 Background Analysis Date/Time : 29-APR-2007 16:13:20
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.879	3299.609	3.000000	0.7200001	57.73503	95.00000
NP-237	4433.001	4905.660	2.000000	0.4800001	70.71068	95.00000
CM-244	5533.283	5882.844	16.00000	3.840001	25.00000	95.00000

Instrument : CHAMBER 023
 Detector : 64260
 Background Analysis Date/Time : 29-APR-2007 16:13:20
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.130	3298.996	1.000000	0.2400000	100.0000	95.00000
NP-237	4434.760	4902.332	12.00000	2.880001	28.86751	95.00000
CM-244	5534.806	5883.799	15.00000	3.600001	25.81989	95.00000

Instrument : CHAMBER 024
 Detector : 64262
 Background Analysis Date/Time : 29-APR-2007 16:13:20
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.902	3299.027	2.000000	0.4800001	70.71068	95.00000
NP-237	4432.596	4901.976	6.000000	1.440000	40.82483	95.00000
CM-244	5534.792	5886.238	10.00000	2.400000	31.62278	95.00000

Instrument : CHAMBER 025
 Detector : 45-149AA5
 Background Analysis Date/Time : 29-APR-2007 16:13:21
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.011	3299.417	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4436.598	4904.734	3.000000	0.7200001	57.73503	95.00000
CM-244	5531.825	5883.604	11.00000	2.640001	30.15113	95.00000

Instrument : CHAMBER 026
 Detector : 67600
 Background Analysis Date/Time : 29-APR-2007 16:13:21
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.418	3300.555	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4434.754	4906.306	3.000000	0.7200001	57.73503	95.00000
CM-244	5533.034	5882.370	0.000000E+00	0.000000E+00	0.000000E+00	95.00000

Instrument : CHAMBER 027
 Detector : 31436
 Background Analysis Date/Time : 29-APR-2007 16:13:21
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.468	3302.206	1.000000	0.2400001	100.0000	95.00000
NP-237	4433.015	4902.190	7.000000	1.680000	37.79645	95.00000
CM-244	5530.961	5885.987	23.00000	5.520001	20.85144	95.00000

Instrument : CHAMBER 028
 Detector : 64257
 Background Analysis Date/Time : 29-APR-2007 16:13:21
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.309	3299.531	2.000000	0.4800001	70.71068	95.00000
NP-237	4432.667	4905.933	6.000000	1.440000	40.82483	95.00000
CM-244	5534.979	5885.627	13.00000	3.120001	27.73501	95.00000

Instrument : CHAMBER 029
 Detector : 30419
 Background Analysis Date/Time : 29-APR-2007 16:13:21
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.190	3298.860	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4433.115	4902.434	7.000000	1.680000	37.79645	95.00000
CM-244	5534.104	5887.621	11.00000	2.640001	30.15113	95.00000

Instrument : CHAMBER 030
 Detector : 30420
 Background Analysis Date/Time : 29-APR-2007 16:13:21
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.067	3298.539	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4436.402	4902.014	5.000000	1.200000	44.72136	95.00000
CM-244	5531.193	5883.414	14.00000	3.360001	26.72612	95.00000

Instrument : CHAMBER 031
 Detector : 67042
 Background Analysis Date/Time : 29-APR-2007 16:13:22
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.988	3298.296	1.000000	0.2399998	100.0000	95.00000
NP-237	4434.109	4901.458	14.00000	3.359998	26.72612	95.00000
CM-244	5535.258	5885.759	15.00000	3.599998	25.81989	95.00000

Instrument : CHAMBER 032
 Detector : 67041
 Background Analysis Date/Time : 29-APR-2007 16:13:22
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.679	3301.485	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4437.104	4906.318	5.000000	1.199999	44.72136	95.00000
CM-244	5531.742	5883.417	14.00000	3.359998	26.72612	95.00000

Instrument : CHAMBER 033
 Detector : 28647
 Background Analysis Date/Time : 29-APR-2007 16:13:22
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.270	3297.939	1.000000	0.2399998	100.0000	95.00000
NP-237	4434.100	4906.178	3.000000	0.7199995	57.73503	95.00000
CM-244	5530.896	5886.310	17.00000	4.079997	24.25356	95.00000

Instrument : CHAMBER 034
 Detector : 32697
 Background Analysis Date/Time : 29-APR-2007 16:13:22
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.718	3298.173	5.000000	1.199999	44.72136	95.00000
NP-237	4435.160	4904.428	6.000000	1.439999	40.82483	95.00000
CM-244	5534.868	5886.168	15.00000	3.599998	25.81989	95.00000

Instrument : CHAMBER 035
 Detector : 29271
 Background Analysis Date/Time : 29-APR-2007 16:13:22
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.285	3299.146	3.000000	0.7199995	57.73503	95.00000
NP-237	4432.447	4904.815	7.000000	1.679999	37.79645	95.00000
CM-244	5531.833	5886.345	24.00000	5.759996	20.41241	95.00000

Instrument : CHAMBER 036
 Detector : 64251
 Background Analysis Date/Time : 29-APR-2007 16:13:22
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.099	3298.635	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4437.224	4903.817	9.000000	2.159998	33.33334	95.00000
CM-244	5531.387	5886.847	12.00000	2.879998	28.86751	95.00000

Instrument : CHAMBER 037
 Detector : 45-149BB5
 Background Analysis Date/Time : 29-APR-2007 16:13:23
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.573	3299.300	2.000000	0.4799997	70.71068	95.00000
NP-237	4432.715	4901.479	7.000000	1.679999	37.79645	95.00000
CM-244	5534.815	5887.203	12.00000	2.879998	28.86751	95.00000

Instrument : CHAMBER 038
 Detector : 19323
 Background Analysis Date/Time : 29-APR-2007 16:13:23
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.453	3302.487	4.000000	0.9599994	50.00000	95.00000
NP-237	4435.228	4903.212	3.000000	0.7199996	57.73503	95.00000
CM-244	5532.338	5883.104	16.00000	3.839998	25.00000	95.00000

Instrument : CHAMBER 039
 Detector : 45-149BB2
 Background Analysis Date/Time : 29-APR-2007 16:13:23
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.868	3301.127	3.000000	0.7199996	57.73503	95.00000
NP-237	4436.183	4904.348	3.000000	0.7199996	57.73503	95.00000
CM-244	5532.256	5884.874	20.00000	4.799997	22.36068	95.00000

Instrument : CHAMBER 040
 Detector : 30446
 Background Analysis Date/Time : 29-APR-2007 16:13:23
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.839	3298.133	1.000000	0.2399998	100.0000	95.00000
NP-237	4435.645	4904.238	5.000000	1.199999	44.72136	95.00000
CM-244	5532.217	5884.629	19.00000	4.559997	22.94157	95.00000

Instrument : CHAMBER 041
 Detector : 22834
 Background Analysis Date/Time : 29-APR-2007 16:13:23
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.063	3301.184	4.000000	0.9599994	50.00000	95.00000
NP-237	4434.555	4901.513	6.000000	1.439999	40.82483	95.00000
CM-244	5532.661	5883.952	20.00000	4.799997	22.36068	95.00000

Instrument : CHAMBER 042
 Detector : 67617
 Background Analysis Date/Time : 29-APR-2007 16:13:23
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.619	3299.566	1.000000	0.2399998	100.0000	95.00000
NP-237	4432.695	4906.403	10.00000	2.399998	31.62278	95.00000
CM-244	5531.039	5882.364	2.000000	0.4799997	70.71068	95.00000

Instrument : CHAMBER 043
 Detector : 42470
 Background Analysis Date/Time : 29-APR-2007 16:13:24
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.780	3301.058	4.000000	0.9600002	50.00000	95.00000
NP-237	4437.489	4902.681	6.000000	1.440000	40.82483	95.00000
CM-244	5533.259	5887.224	16.00000	3.840001	25.00000	95.00000

Instrument : CHAMBER 044
 Detector : 67612
 Background Analysis Date/Time : 29-APR-2007 16:13:24
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.191	3297.941	4.000000	0.9600002	50.00000	95.00000
NP-237	4435.166	4902.999	5.000000	1.200000	44.72136	95.00000
CM-244	5531.997	5882.728	11.00000	2.640001	30.15113	95.00000

Instrument : CHAMBER 045
 Detector : 67601
 Background Analysis Date/Time : 29-APR-2007 16:13:24
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.790	3301.507	2.000000	0.4800001	70.71068	95.00000
NP-237	4435.139	4901.601	5.000000	1.200000	44.72136	95.00000
CM-244	5534.207	5884.052	6.000000	1.440000	40.82483	95.00000

Instrument : CHAMBER 046
 Detector : 42471
 Background Analysis Date/Time : 29-APR-2007 16:13:24
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.680	3299.770	3.000000	0.7200001	57.73503	95.00000
NP-237	4434.468	4902.601	10.00000	2.400001	31.62278	95.00000
CM-244	5530.566	5883.263	12.00000	2.880001	28.86751	95.00000

Instrument : CHAMBER 047
 Detector : 30449
 Background Analysis Date/Time : 29-APR-2007 16:13:24
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.507	3298.914	5.000000	1.200000	44.72136	95.00000
NP-237	4437.496	4901.572	11.00000	2.640001	30.15113	95.00000
CM-244	5530.693	5883.866	11.00000	2.640001	30.15113	95.00000

Instrument : CHAMBER 048
 Detector : 42483
 Background Analysis Date/Time : 29-APR-2007 16:13:24
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.457	3302.485	4.000000	0.9600002	50.00000	95.00000
NP-237	4433.966	4903.368	11.00000	2.640001	30.15113	95.00000
CM-244	5531.679	5883.913	11.00000	2.640001	30.15113	95.00000

Instrument : CHAMBER 065
 Detector : 21087
 Background Analysis Date/Time : 29-APR-2007 16:13:25
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.791	3300.255	30.00000	7.200002	18.25742	95.00000
NP-237	4434.807	4903.598	35.00000	8.400002	16.90309	95.00000
CM-244	5533.856	5885.276	27.00000	6.480001	19.24501	95.00000

Instrument : CHAMBER 066
 Detector : 64273
 Background Analysis Date/Time : 29-APR-2007 16:13:25
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.281	3298.426	4.000000	0.9600002	50.00000	95.00000
NP-237	4437.435	4901.803	8.000000	1.920000	35.35534	95.00000
CM-244	5534.930	5886.582	7.000000	1.680000	37.79645	95.00000

Instrument : CHAMBER 067
 Detector : 64269
 Background Analysis Date/Time : 29-APR-2007 16:13:25
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.631	3300.068	7.000000	1.680000	37.79645	95.00000
NP-237	4433.523	4905.261	11.00000	2.640001	30.15113	95.00000
CM-244	5535.491	5886.074	24.00000	5.760001	20.41241	95.00000

Instrument : CHAMBER 068
 Detector : 64270
 Background Analysis Date/Time : 29-APR-2007 16:13:25
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.683	3300.518	1.000000	0.2400001	100.0000	95.00000
NP-237	4433.958	4906.490	3.000000	0.7200001	57.73503	95.00000
CM-244	5533.816	5883.151	55.00000	13.20000	13.48400	95.00000

Instrument : CHAMBER 069
 Detector : 39172
 Background Analysis Date/Time : 29-APR-2007 16:13:25
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.791	3301.156	2.000000	0.4800001	70.71068	95.00000
NP-237	4433.209	4905.367	4.000000	0.9600002	50.00000	95.00000
CM-244	5532.375	5887.011	17.00000	4.080001	24.25356	95.00000

Instrument : CHAMBER 070
 Detector : 67615
 Background Analysis Date/Time : 29-APR-2007 16:13:25
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.160	3302.131	6.000000	1.440000	40.82483	95.00000
NP-237	4433.289	4904.256	6.000000	1.440000	40.82483	95.00000
CM-244	5534.314	5887.810	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 071
 Detector : 64259
 Background Analysis Date/Time : 29-APR-2007 16:13:26
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.635	3301.480	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.154	4903.949	1.000000	0.2400000	100.0000	95.00000
CM-244	5531.946	5884.246	11.00000	2.640000	30.15113	95.00000

Instrument : CHAMBER 072
 Detector : 45-149AA3
 Background Analysis Date/Time : 29-APR-2007 16:13:26
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.402	3297.545	3.000000	0.7200001	57.73503	95.00000
NP-237	4437.119	4903.416	4.000000	0.9600002	50.00000	95.00000
CM-244	5532.665	5882.415	18.00000	4.320001	23.57022	95.00000

Instrument : CHAMBER 073
 Detector : 33211
 Background Analysis Date/Time : 29-APR-2007 16:13:26
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.416	3300.636	2.000000	0.4800001	70.71068	95.00000
NP-237	4433.325	4902.110	10.00000	2.400000	31.62278	95.00000
CM-244	5531.192	5886.804	32.00000	7.680001	17.67767	95.00000

Instrument : CHAMBER 074
 Detector : 64258
 Background Analysis Date/Time : 29-APR-2007 16:13:26
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.284	3299.013	0.0000000E+00	0.0000000E+00	0.0000000E+00	95.00000
NP-237	4435.565	4901.542	8.000000	1.920000	35.35534	95.00000
CM-244	5531.163	5886.835	23.00000	5.520001	20.85144	95.00000

Instrument : CHAMBER 075
 Detector : 68550
 Background Analysis Date/Time : 29-APR-2007 16:13:26
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.327	3302.223	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.888	4903.300	9.000000	2.160000	33.33334	95.00000
CM-244	5530.826	5885.698	9.000000	2.160000	33.33334	95.00000

Instrument : CHAMBER 076
 Detector : 64261
 Background Analysis Date/Time : 29-APR-2007 16:13:26
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.455	3301.238	2.000000	0.4800001	70.71068	95.00000
NP-237	4435.189	4902.956	3.000000	0.7200001	57.73503	95.00000
CM-244	5531.165	5886.524	11.00000	2.640000	30.15113	95.00000

Instrument : CHAMBER 077
 Detector : 28239
 Background Analysis Date/Time : 29-APR-2007 16:13:27
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.517	3302.122	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4437.245	4906.059	11.00000	2.640000	30.15113	95.00000
CM-244	5533.580	5885.369	27.00000	6.480001	19.24501	95.00000

Instrument : CHAMBER 078
 Detector : 34425
 Background Analysis Date/Time : 29-APR-2007 16:13:27
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.928	3301.822	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4435.768	4904.714	6.000000	1.440000	40.82483	95.00000
CM-244	5532.949	5885.398	20.00000	4.800001	22.36068	95.00000

Instrument : CHAMBER 079
 Detector : 45-149AA2
 Background Analysis Date/Time : 29-APR-2007 16:13:27
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.357	3298.630	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4437.143	4902.313	3.000000	0.7200001	57.73503	95.00000
CM-244	5534.692	5883.002	19.00000	4.560001	22.94157	95.00000

Instrument : CHAMBER 080
 Detector : 68546
 Background Analysis Date/Time : 29-APR-2007 16:13:27
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.359	3302.184	3.000000	0.7200001	57.73503	95.00000
NP-237	4434.300	4904.458	3.000000	0.7200001	57.73503	95.00000
CM-244	5534.931	5885.692	14.00000	3.360001	26.72612	95.00000

Instrument : CHAMBER 081
 Detector : 64271
 Background Analysis Date/Time : 29-APR-2007 16:13:27
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.296	3299.128	7.000000	1.680000	37.79645	95.00000
NP-237	4436.670	4905.832	5.000000	1.200000	44.72136	95.00000
CM-244	5532.510	5886.365	15.00000	3.600001	25.81989	95.00000

Instrument : CHAMBER 082
 Detector : 64263
 Background Analysis Date/Time : 29-APR-2007 16:13:27
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.689	3298.309	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4433.539	4905.162	11.00000	2.640000	30.15113	95.00000
CM-244	5531.678	5886.144	19.00000	4.560001	22.94157	95.00000

Instrument : CHAMBER 083
 Detector : 34436
 Background Analysis Date/Time : 29-APR-2007 16:13:28
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.414	3302.544	1.000000	0.2399998	100.0000	95.00000
NP-237	4436.117	4904.198	10.00000	2.399998	31.62278	95.00000
CM-244	5531.398	5885.486	11.00000	2.639998	30.15113	95.00000

Instrument : CHAMBER 084
 Detector : 29953
 Background Analysis Date/Time : 29-APR-2007 16:13:28
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.377	3301.342	3.000000	0.7199996	57.73503	95.00000
NP-237	4435.283	4903.942	10.00000	2.399998	31.62278	95.00000
CM-244	5532.292	5887.212	6.000000	1.439999	40.82483	95.00000

Instrument : CHAMBER 085
 Detector : 30451
 Background Analysis Date/Time : 29-APR-2007 16:13:28
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.624	3301.923	2.000000	0.4799997	70.71068	95.00000
NP-237	4433.569	4904.991	4.000000	0.9599994	50.00000	95.00000
CM-244	5534.007	5885.666	10.00000	2.399998	31.62278	95.00000

Instrument : CHAMBER 086
 Detector : 29278
 Background Analysis Date/Time : 29-APR-2007 16:13:28
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.054	3299.080	4.000000	0.9599994	50.00000	95.00000
NP-237	4434.617	4904.216	7.000000	1.679999	37.79645	95.00000
CM-244	5531.494	5882.521	7.000000	1.679999	37.79645	95.00000

Instrument : CHAMBER 087
 Detector : 34430
 Background Analysis Date/Time : 29-APR-2007 16:13:28
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.968	3301.127	3.000000	0.7199996	57.73503	95.00000
NP-237	4436.935	4906.548	7.000000	1.679999	37.79645	95.00000
CM-244	5533.762	5884.712	12.00000	2.879998	28.86751	95.00000

Instrument : CHAMBER 088
 Detector : 30434
 Background Analysis Date/Time : 29-APR-2007 16:13:28
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.375	3300.391	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4435.917	4905.261	6.000000	1.439999	40.82483	95.00000
CM-244	5534.690	5885.848	5.000000	1.199999	44.72136	95.00000

Instrument : CHAMBER 089
 Detector : 21087
 Background Analysis Date/Time : 29-APR-2007 16:13:29
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.246	3299.439	1.000000	0.2400001	100.0000	95.00000
NP-237	4432.916	4903.734	3.000000	0.7200001	57.73503	95.00000
CM-244	5534.453	5882.903	1.000000	0.2400001	100.0000	95.00000

Instrument : CHAMBER 090
 Detector : 38159
 Background Analysis Date/Time : 29-APR-2007 16:13:29
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.913	3298.430	1.000000	0.2400001	100.0000	95.00000
NP-237	4433.174	4902.043	3.000000	0.7200001	57.73503	95.00000
CM-244	5532.406	5883.884	2.000000	0.4800001	70.71068	95.00000

Instrument : CHAMBER 091
 Detector : 33205
 Background Analysis Date/Time : 29-APR-2007 16:13:29
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.902	3300.425	1.000000	0.2400001	100.0000	95.00000
NP-237	4435.640	4902.170	5.000000	1.200000	44.72136	95.00000
CM-244	5534.358	5883.729	2.000000	0.4800001	70.71068	95.00000

Instrument : CHAMBER 092
 Detector : 67606
 Background Analysis Date/Time : 29-APR-2007 16:13:29
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.724	3298.585	2.000000	0.4800001	70.71068	95.00000
NP-237	4434.974	4901.923	2.000000	0.4800001	70.71068	95.00000
CM-244	5534.622	5884.249	3.000000	0.7200001	57.73503	95.00000

Instrument : CHAMBER 093
 Detector : 33206
 Background Analysis Date/Time : 29-APR-2007 16:13:29
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.240	3299.205	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4437.498	4904.567	1.000000	0.2400001	100.0000	95.00000
CM-244	5530.688	5887.497	0.000000E+00	0.000000E+00	0.000000E+00	95.00000

Instrument : CHAMBER 094
 Detector : 33207
 Background Analysis Date/Time : 29-APR-2007 16:13:29
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.953	3298.680	2.000000	0.4800001	70.71068	95.00000
NP-237	4432.765	4902.096	3.000000	0.7200001	57.73503	95.00000
CM-244	5531.130	5884.166	0.000000E+00	0.000000E+00	0.000000E+00	95.00000

Instrument : CHAMBER 095
 Detector : 64267
 Background Analysis Date/Time : 29-APR-2007 16:13:30
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.598	3298.442	1.000000	0.2400001	100.0000	95.00000
NP-237	4434.584	4905.478	1.000000	0.2400001	100.0000	95.00000
CM-244	5531.871	5886.679	7.000000	1.680000	37.79645	95.00000

Instrument : CHAMBER 096
 Detector : 45-149BB3
 Background Analysis Date/Time : 29-APR-2007 16:13:30
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.686	3298.297	3.000000	0.7200001	57.73503	95.00000
NP-237	4433.580	4905.264	4.000000	0.9600002	50.00000	95.00000
CM-244	5531.896	5886.442	1.000000	0.2400001	100.0000	95.00000

Instrument : CHAMBER 097
 Detector : 64266
 Background Analysis Date/Time : 29-APR-2007 16:13:30
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.725	3301.659	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4435.894	4902.524	2.000000	0.4800001	70.71068	95.00000
CM-244	5535.287	5885.187	1.000000	0.2400001	100.0000	95.00000

Instrument : CHAMBER 098
 Detector : 30431
 Background Analysis Date/Time : 29-APR-2007 16:13:30
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.242	3299.559	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4433.135	4903.836	4.000000	0.9600002	50.00000	95.00000
CM-244	5534.260	5882.483	1.000000	0.2400001	100.0000	95.00000

Instrument : CHAMBER 099
 Detector : 64272
 Background Analysis Date/Time : 29-APR-2007 16:13:30
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.912	3297.756	2.000000	0.4800001	70.71068	95.00000
NP-237	4434.189	4901.477	5.000000	1.200000	44.72136	95.00000
CM-244	5534.056	5886.616	2.000000	0.4800001	70.71068	95.00000

Instrument : CHAMBER 100
 Detector : 42468
 Background Analysis Date/Time : 29-APR-2007 16:13:30
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.033	3299.540	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4436.987	4903.792	7.000000	1.680000	37.79645	95.00000
CM-244	5530.439	5884.783	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 101
 Detector : 64253
 Background Analysis Date/Time : 29-APR-2007 16:13:31
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.866	3300.595	2.000000	0.4800001	70.71068	95.00000
NP-237	4435.442	4905.420	4.000000	0.9600002	50.00000	95.00000
CM-244	5535.607	5884.045	0.0000000E+00	0.0000000E+00	0.0000000E+00	95.00000

Instrument : CHAMBER 102
 Detector : 30438
 Background Analysis Date/Time : 29-APR-2007 16:13:31
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.847	3302.531	0.0000000E+00	0.0000000E+00	0.0000000E+00	95.00000
NP-237	4437.375	4906.121	2.000000	0.4800001	70.71068	95.00000
CM-244	5530.795	5887.414	2.000000	0.4800001	70.71068	95.00000

Instrument : CHAMBER 103
 Detector : 64252
 Background Analysis Date/Time : 29-APR-2007 16:13:31
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.298	3301.040	3.000000	0.7200001	57.73503	95.00000
NP-237	4436.922	4902.495	1.000000	0.2400001	100.0000	95.00000
CM-244	5534.121	5883.533	1.000000	0.2400001	100.0000	95.00000

Instrument : CHAMBER 104
 Detector : 30436
 Background Analysis Date/Time : 29-APR-2007 16:13:31
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.490	3300.558	0.0000000E+00	0.0000000E+00	0.0000000E+00	95.00000
NP-237	4437.521	4903.491	4.000000	0.9600002	50.00000	95.00000
CM-244	5535.615	5885.283	1.000000	0.2400001	100.0000	95.00000

Instrument : CHAMBER 105
 Detector : 64254
 Background Analysis Date/Time : 29-APR-2007 16:13:31
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.892	3298.744	1.000000	0.2400001	100.0000	95.00000
NP-237	4433.231	4902.706	3.000000	0.7200001	57.73503	95.00000
CM-244	5531.912	5885.035	0.0000000E+00	0.0000000E+00	0.0000000E+00	95.00000

Instrument : CHAMBER 106
 Detector : 64274
 Background Analysis Date/Time : 29-APR-2007 16:13:31
 Background Count Time : 59999.99

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.974	3298.698	1.000000	0.2400001	100.0000	95.00000
NP-237	4436.917	4902.899	4.000000	0.9600002	50.00000	95.00000
CM-244	5534.601	5883.825	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 107
 Detector : 68569
 Background Analysis Date/Time : 29-APR-2007 16:13:32
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.269	3300.991	4.000000	0.9600002	50.00000	95.00000
NP-237	4432.889	4903.499	3.000000	0.7200001	57.73503	95.00000
CM-244	5535.604	5883.338	1.000000	0.2400000	100.0000	95.00000

Instrument : CHAMBER 108
 Detector : 64255
 Background Analysis Date/Time : 29-APR-2007 16:13:32
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.958	3302.062	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.849	4905.919	6.000000	1.440000	40.82483	95.00000
CM-244	5531.348	5885.673	1.000000	0.2400000	100.0000	95.00000

Instrument : CHAMBER 109
 Detector : 64256
 Background Analysis Date/Time : 29-APR-2007 16:13:32
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.061	3297.634	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4434.172	4903.092	1.000000	0.2400000	100.0000	95.00000
CM-244	5532.138	5885.453	0.000000E+00	0.000000E+00	0.000000E+00	95.00000

Instrument : CHAMBER 110
 Detector : 67603
 Background Analysis Date/Time : 29-APR-2007 16:13:32
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.164	3298.740	1.000000	0.2400000	100.0000	95.00000
NP-237	4433.226	4903.139	3.000000	0.7200001	57.73503	95.00000
CM-244	5533.314	5887.166	1.000000	0.2400000	100.0000	95.00000

Instrument : CHAMBER 111
 Detector : 30448
 Background Analysis Date/Time : 29-APR-2007 16:13:32
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.915	3300.861	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4432.896	4902.901	3.000000	0.7200001	57.73503	95.00000
CM-244	5532.345	5885.373	1.000000	0.2400000	100.0000	95.00000

Instrument : CHAMBER 112
 Detector : 30449
 Background Analysis Date/Time : 29-APR-2007 16:13:32
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.074	3297.775	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.650	4902.786	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
CM-244	5534.509	5886.281	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 113
 Detector : 45-111B4
 Background Analysis Date/Time : 29-APR-2007 15:32:36
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.992	3297.476	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.012	4901.931	3.000000	0.7200001	57.73503	95.00000
CM-244	5534.147	5883.297	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 114
 Detector : 45-111B5
 Background Analysis Date/Time : 29-APR-2007 15:32:40
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.453	3299.457	0.0000000E+00	0.0000000E+00	0.0000000E+00	95.00000
NP-237	4435.522	4905.609	3.000000	0.7200001	57.73503	95.00000
CM-244	5533.776	5885.415	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 115
 Detector : 30453
 Background Analysis Date/Time : 29-APR-2007 15:32:44
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.495	3302.310	3.000000	0.7200001	57.73503	95.00000
NP-237	4435.313	4906.354	6.000000	1.440000	40.82483	95.00000
CM-244	5532.392	5886.729	3.000000	0.7200001	57.73503	95.00000

Instrument : CHAMBER 116
 Detector : 45-132FF2
 Background Analysis Date/Time : 29-APR-2007 15:32:48
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.843	3299.865	2.000000	0.4800001	70.71068	95.00000
NP-237	4432.742	4904.482	2.000000	0.4800001	70.71068	95.00000
CM-244	5535.619	5883.911	9.000000	2.160000	33.33334	95.00000

Instrument : CHAMBER 117
 Detector : 45-132FF3
 Background Analysis Date/Time : 29-APR-2007 15:32:52
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.723	3299.174	14.00000	3.360001	26.72612	95.00000
NP-237	4434.640	4906.282	142.0000	34.08001	8.391813	95.00000
CM-244	5530.931	5883.416	30.00000	7.200001	18.25742	95.00000

Instrument : CHAMBER 118
 Detector : 45-132FF4
 Background Analysis Date/Time : 29-APR-2007 15:32:55
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.527	3299.387	1.000000	0.2400000	100.0000	95.00000
NP-237	4437.145	4903.646	3.000000	0.7200001	57.73503	95.00000
CM-244	5534.851	5883.228	6.000000	1.440000	40.82483	95.00000

Instrument : CHAMBER 119
 Detector : 45-132FF5
 Background Analysis Date/Time : 29-APR-2007 15:33:00
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.213	3298.242	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4437.335	4901.960	16.00000	3.840001	25.00000	95.00000
CM-244	5535.634	5882.333	8.000000	1.920000	35.35534	95.00000

Instrument : CHAMBER 120
 Detector : 45-142F1
 Background Analysis Date/Time : 29-APR-2007 15:33:04
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.806	3299.602	1.000000	0.2400000	100.0000	95.00000
NP-237	4434.474	4903.879	7.000000	1.680000	37.79645	95.00000
CM-244	5530.971	5887.263	19.00000	4.560001	22.94157	95.00000

Instrument : CHAMBER 121
 Detector : 45-142J4
 Background Analysis Date/Time : 29-APR-2007 15:33:07
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.980	3297.999	2.000000	0.4800001	70.71068	95.00000
NP-237	4435.218	4906.269	9.000000	2.160000	33.33334	95.00000
CM-244	5530.824	5883.592	2.000000	0.4800001	70.71068	95.00000

Instrument : CHAMBER 122
 Detector : 67605
 Background Analysis Date/Time : 29-APR-2007 15:33:11
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.834	3298.069	2.000000	0.4800001	70.71068	95.00000
NP-237	4434.107	4904.292	23.00000	5.520001	20.85144	95.00000
CM-244	5534.510	5882.848	5.000000	1.200000	44.72136	95.00000

Instrument : CHAMBER 123
 Detector : 45-149BB4
 Background Analysis Date/Time : 29-APR-2007 15:33:15
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.288	3298.868	2.000000	0.4800001	70.71068	95.00000
NP-237	4434.431	4904.779	15.00000	3.600001	25.81989	95.00000
CM-244	5533.704	5885.965	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 124
 Detector : 45-142V2
 Background Analysis Date/Time : 29-APR-2007 15:33:19
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.164	3302.335	2.000000	0.4800001	70.71068	95.00000
NP-237	4435.990	4906.531	3.000000	0.7200001	57.73503	95.00000
CM-244	5534.727	5886.102	6.000000	1.440000	40.82483	95.00000

Instrument : CHAMBER 125
 Detector : 45-142V3
 Background Analysis Date/Time : 29-APR-2007 15:33:23
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.652	3298.019	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4437.200	4906.596	9.000000	2.160000	33.33334	95.00000
CM-244	5533.941	5885.170	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 126
 Detector : 68547
 Background Analysis Date/Time : 29-APR-2007 15:33:27
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.760	3297.917	3.000000	0.7200001	57.73503	95.00000
NP-237	4434.526	4904.831	11.00000	2.640000	30.15113	95.00000
CM-244	5533.283	5885.079	10.00000	2.400000	31.62278	95.00000

Instrument : CHAMBER 127
 Detector : 45-142W1
 Background Analysis Date/Time : 29-APR-2007 15:33:32
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.343	3300.642	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.358	4905.438	8.000000	1.920000	35.35534	95.00000
CM-244	5534.078	5886.215	9.000000	2.160000	33.33334	95.00000

Instrument : CHAMBER 128
 Detector : 68548
 Background Analysis Date/Time : 29-APR-2007 15:33:36
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.921	3300.013	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.230	4906.076	6.000000	1.440000	40.82483	95.00000
CM-244	5530.896	5884.077	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 129
 Detector : 45-142W3
 Background Analysis Date/Time : 29-APR-2007 15:33:41
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.236	3301.485	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.888	4905.837	2.000000	0.4800001	70.71068	95.00000
CM-244	5534.302	5886.342	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 130
 Detector : 67043
 Background Analysis Date/Time : 29-APR-2007 15:33:45
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.765	3298.052	1.000000	0.2400000	100.0000	95.00000
NP-237	4434.655	4903.610	4.000000	0.9600002	50.00000	95.00000
CM-244	5530.909	5882.376	5.000000	1.200000	44.72136	95.00000

Instrument : CHAMBER 131
 Detector : 58880
 Background Analysis Date/Time : 29-APR-2007 15:33:49
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.037	3300.823	3.000000	0.7200001	57.73503	95.00000
NP-237	4434.069	4903.767	9.000000	2.160000	33.33334	95.00000
CM-244	5532.094	5884.153	2.000000	0.4800001	70.71068	95.00000

Instrument : CHAMBER 132
 Detector : 61574
 Background Analysis Date/Time : 29-APR-2007 15:33:53
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.126	3299.871	3.000000	0.7200001	57.73503	95.00000
NP-237	4436.379	4903.174	10.00000	2.400000	31.62278	95.00000
CM-244	5533.638	5886.427	10.00000	2.400000	31.62278	95.00000

Instrument : CHAMBER 133
 Detector : 45-145K3
 Background Analysis Date/Time : 29-APR-2007 15:33:57
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.193	3298.076	3.000000	0.7200001	57.73503	95.00000
NP-237	4434.432	4902.208	3.000000	0.7200001	57.73503	95.00000
CM-244	5532.275	5887.226	8.000000	1.920000	35.35534	95.00000

Instrument : CHAMBER 134
 Detector : 67604
 Background Analysis Date/Time : 29-APR-2007 15:34:01
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.394	3300.254	0.0000000E+00	0.0000000E+00	0.0000000E+00	95.00000
NP-237	4433.640	4903.294	14.00000	3.360001	26.72612	95.00000
CM-244	5531.474	5883.407	0.0000000E+00	0.0000000E+00	0.0000000E+00	95.00000

Instrument : CHAMBER 135
 Detector : 45-145K5
 Background Analysis Date/Time : 29-APR-2007 15:34:05
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.708	3302.125	5.000000	1.200000	44.72136	95.00000
NP-237	4434.590	4901.444	4.000000	0.9600002	50.00000	95.00000
CM-244	5530.866	5885.750	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 136
 Detector : 68549
 Background Analysis Date/Time : 29-APR-2007 15:34:09
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.370	3300.889	2.000000	0.4800001	70.71068	95.00000
NP-237	4435.892	4902.003	38.00000	9.120002	16.22214	95.00000
CM-244	5530.678	5885.264	6.000000	1.440000	40.82483	95.00000

Instrument : CHAMBER 137
 Detector : 64288
 Background Analysis Date/Time : 29-APR-2007 15:34:13
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.228	3300.698	4.000000	0.9600002	50.00000	95.00000
NP-237	4436.898	4904.341	3.000000	0.7200001	57.73503	95.00000
CM-244	5532.844	5883.312	8.000000	1.920000	35.35534	95.00000

Instrument : CHAMBER 138
 Detector : 65877
 Background Analysis Date/Time : 29-APR-2007 15:34:17
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2992.442	3299.374	88.00000	21.12000	10.66004	95.00000
NP-237	4433.887	4906.017	270.0000	64.80001	6.085806	95.00000
CM-244	5533.897	5884.061	77.00000	18.48000	11.39606	95.00000

Instrument : CHAMBER 139
 Detector : 65878
 Background Analysis Date/Time : 29-APR-2007 15:34:20
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.833	3302.502	5.000000	1.200000	44.72136	95.00000
NP-237	4436.360	4903.087	48.00000	11.52000	14.43376	95.00000
CM-244	5530.841	5886.406	3.000000	0.7200001	57.73503	95.00000

Instrument : CHAMBER 140
 Detector : 65879
 Background Analysis Date/Time : 29-APR-2007 15:34:24
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.037	3299.398	4.000000	0.9600002	50.00000	95.00000
NP-237	4432.624	4904.580	47.00000	11.28000	14.58650	95.00000
CM-244	5532.539	5882.895	11.00000	2.640000	30.15113	95.00000

Instrument : CHAMBER 141
 Detector : 65880
 Background Analysis Date/Time : 29-APR-2007 15:34:28
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.709	3298.090	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.781	4901.866	12.00000	2.880001	28.86751	95.00000
CM-244	5533.988	5883.580	1.000000	0.2400000	100.0000	95.00000

Instrument : CHAMBER 142
 Detector : 65881
 Background Analysis Date/Time : 29-APR-2007 15:34:31
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.691	3297.668	2.000000	0.4800001	70.71068	95.00000
NP-237	4437.468	4904.373	16.00000	3.840001	25.00000	95.00000
CM-244	5532.203	5882.320	9.000000	2.160000	33.33334	95.00000

Instrument : CHAMBER 143
 Detector : 65882
 Background Analysis Date/Time : 29-APR-2007 15:34:35
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.815	3302.216	7.000000	1.680000	37.79645	95.00000
NP-237	4435.119	4901.463	36.00000	8.640001	16.66667	95.00000
CM-244	5534.069	5883.991	5.000000	1.200000	44.72136	95.00000

Instrument : CHAMBER 144
 Detector : 65883
 Background Analysis Date/Time : 29-APR-2007 15:34:38
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.877	3299.831	1.000000	0.2400000	100.0000	95.00000
NP-237	4436.923	4904.318	47.00000	11.28000	14.58650	95.00000
CM-244	5532.396	5882.453	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 145
 Detector : 65884
 Background Analysis Date/Time : 29-APR-2007 15:34:42
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.067	3301.699	2.000000	0.4800001	70.71068	95.00000
NP-237	4433.853	4901.974	14.00000	3.360001	26.72612	95.00000
CM-244	5531.612	5882.822	12.00000	2.880001	28.86751	95.00000

Instrument : CHAMBER 146
 Detector : 65885
 Background Analysis Date/Time : 29-APR-2007 15:34:46
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.658	3299.338	2.000000	0.4800001	70.71068	95.00000
NP-237	4434.044	4903.980	32.00000	7.680001	17.67767	95.00000
CM-244	5534.125	5882.546	7.000000	1.680000	37.79645	95.00000

Instrument : CHAMBER 147
 Detector : 65886
 Background Analysis Date/Time : 29-APR-2007 15:34:49
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.562	3298.217	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4433.504	4905.122	32.00000	7.680001	17.67767	95.00000
CM-244	5531.605	5886.039	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 148
 Detector : 65887
 Background Analysis Date/Time : 29-APR-2007 15:34:53
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.880	3299.660	1.000000	0.2400000	100.0000	95.00000
NP-237	4434.783	4906.055	7.000000	1.680000	37.79645	95.00000
CM-244	5531.840	5885.763	10.00000	2.400000	31.62278	95.00000

Instrument : CHAMBER 149
 Detector : 65888
 Background Analysis Date/Time : 29-APR-2007 15:34:56
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.452	3300.834	2.000000	0.4800001	70.71068	95.00000
NP-237	4434.136	4906.124	23.00000	5.520001	20.85144	95.00000
CM-244	5534.127	5884.507	5.000000	1.200000	44.72136	95.00000

Instrument : CHAMBER 150
 Detector : 65889
 Background Analysis Date/Time : 29-APR-2007 15:35:00
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.041	3298.297	0.0000000E+00	0.0000000E+00	0.0000000E+00	95.00000
NP-237	4436.590	4904.513	14.00000	3.360001	26.72612	95.00000
CM-244	5533.330	5883.814	8.000000	1.920000	35.35534	95.00000

Instrument : CHAMBER 151
 Detector : 46-089B1
 Background Analysis Date/Time : 29-APR-2007 15:35:03
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.129	3299.666	2.000000	0.4800001	70.71068	95.00000
NP-237	4437.180	4902.872	5.000000	1.200000	44.72136	95.00000
CM-244	5534.178	5883.185	1.000000	0.2400000	100.0000	95.00000

Instrument : CHAMBER 152
 Detector : 46-089B2
 Background Analysis Date/Time : 29-APR-2007 15:35:07
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.093	3299.484	2.000000	0.4800001	70.71068	95.00000
NP-237	4434.083	4904.388	8.000000	1.920000	35.35534	95.00000
CM-244	5535.386	5884.449	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 153
 Detector : 46-089B3
 Background Analysis Date/Time : 29-APR-2007 15:35:11
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.276	3298.031	3.000000	0.7200001	57.73503	95.00000
NP-237	4436.455	4902.559	6.000000	1.440000	40.82483	95.00000
CM-244	5534.458	5883.808	5.000000	1.200000	44.72136	95.00000

Instrument : CHAMBER 154
 Detector : 46-089B4
 Background Analysis Date/Time : 29-APR-2007 15:35:14
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.771	3298.953	1.000000	0.2400000	100.0000	95.00000
NP-237	4435.185	4905.618	8.000000	1.920000	35.35534	95.00000
CM-244	5530.974	5884.987	7.000000	1.680000	37.79645	95.00000

Instrument : CHAMBER 155
 Detector : 67044
 Background Analysis Date/Time : 29-APR-2007 15:35:18
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2987.737	3300.178	1.000000	0.2400000	100.0000	95.00000
NP-237	4436.717	4904.493	9.000000	2.160000	33.33334	95.00000
CM-244	5533.610	5884.501	4.000000	0.9600002	50.00000	95.00000

Instrument : CHAMBER 156
 Detector : 67045
 Background Analysis Date/Time : 29-APR-2007 15:35:22
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2990.766	3302.396	6.000000	1.440000	40.82483	95.00000
NP-237	4432.564	4905.870	52.00000	12.48000	13.86751	95.00000
CM-244	5530.687	5882.456	13.00000	3.120001	27.73501	95.00000

Instrument : CHAMBER 157
 Detector : 67046
 Background Analysis Date/Time : 29-APR-2007 15:35:25
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2988.116	3299.980	0.000000E+00	0.000000E+00	0.000000E+00	95.00000
NP-237	4435.361	4903.066	25.00000	6.000001	20.00000	95.00000
CM-244	5532.438	5883.640	6.000000	1.440000	40.82483	95.00000

Instrument : CHAMBER 158
 Detector : 67047
 Background Analysis Date/Time : 29-APR-2007 15:35:29
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2991.146	3298.286	3.000000	0.7200001	57.73503	95.00000
NP-237	4434.237	4901.971	15.00000	3.600001	25.81989	95.00000
CM-244	5531.204	5887.669	7.000000	1.680000	37.79645	95.00000

Instrument : CHAMBER 159
 Detector : 67048
 Background Analysis Date/Time : 29-APR-2007 15:35:32
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.119	3301.528	11.00000	2.640000	30.15113	95.00000
NP-237	4432.663	4905.556	24.00000	5.760001	20.41241	95.00000
CM-244	5534.506	5885.292	16.00000	3.840001	25.00000	95.00000

Instrument : CHAMBER 160
 Detector : 67049
 Background Analysis Date/Time : 29-APR-2007 15:35:36
 Background Count Time : 60000.00

Cal. Isotopes	Start Energy	End Energy	Counts in 1000 min	Counts during Cal	% Error	Confidence
GD-148	2989.468	3300.794	3.000000	0.7200001	57.73503	95.00000
NP-237	4434.617	4901.854	8.000000	1.920000	35.35534	95.00000
CM-244	5530.746	5887.177	3.000000	0.7200001	57.73503	95.00000

Subsection 3: Efficiency Calibration

Instrument : CHAMBER 001
 Detector : 67602
 Standard ID : AESS-001
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:49
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:25:18
 Average Efficiency : 0.2937519
 Average Efficiency Error : 8.1086531E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	199.3914	31-MAR-2008	2992.380	3300.357	13778.00	0.2889905	1.2441508E-02	40.25176
NP-237	164.9840	31-MAR-2008	4436.393	4902.855	11739.00	0.2964440	1.5072661E-02	56.84885
CM-244	160.0970	31-MAR-2008	5534.595	5883.549	11279.00	0.2981021	1.5167102E-02	37.69396

Instrument : CHAMBER 002
 Detector : 45-149AA4
 Standard ID : AESS-002
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:49
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:26:09
 Average Efficiency : 0.3102219
 Average Efficiency Error : 8.5337060E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.4800	31-MAR-2008	2988.654	3302.381	15614.00	0.3082336	1.3248052E-02	55.86855
NP-237	211.5000	31-MAR-2008	4437.583	4902.208	15720.00	0.3096742	1.5679495E-02	67.07439
CM-244	248.4000	31-MAR-2008	5535.453	5887.058	15904.00	0.3136396	1.5878059E-02	57.27663

Instrument : CHAMBER 003
 Detector : 20659
 Standard ID : AESS-003
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:49
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:27:11
 Average Efficiency : 0.2842953
 Average Efficiency Error : 7.8308498E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.3600	31-MAR-2008	2990.055	3300.335	14274.00	0.2819350	1.2137427E-02	55.28405
NP-237	211.3800	31-MAR-2008	4437.279	4905.188	14523.00	0.2862030	1.4505990E-02	64.56577
CM-244	248.2800	31-MAR-2008	5532.635	5887.096	14483.00	0.2857543	1.4483766E-02	57.52214

Instrument : CHAMBER 004
 Detector : 64279
 Standard ID : AESS-004
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:49
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:27:25
 Average Efficiency : 0.3450292
 Average Efficiency Error : 9.4774123E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.1800	31-MAR-2008	2990.293	3301.156	17377.00	0.3435062	1.4738100E-02	43.98400
NP-237	211.2000	31-MAR-2008	4436.419	4906.535	17619.00	0.3475881	1.7575592E-02	61.76259
CM-244	248.1000	31-MAR-2008	5531.541	5885.390	17455.00	0.3446427	1.7428571E-02	50.92841

Instrument : CHAMBER 005
 Detector : 28642
 Standard ID : AESS-005
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:49
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:27:39
 Average Efficiency : 0.3109097
 Average Efficiency Error : 8.5520661E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2990.369	3297.647	15698.00	0.3096379	1.3307174E-02	57.56079
NP-237	211.6800	31-MAR-2008	4435.878	4906.236	15788.00	0.3107399	1.5732625E-02	65.55783
CM-244	248.6400	31-MAR-2008	5530.719	5883.861	15881.00	0.3128836	1.5840074E-02	56.48684

Instrument : CHAMBER 006
 Detector : 65890
 Standard ID : AESS-006
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:49
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:27:52
 Average Efficiency : 0.3002800
 Average Efficiency Error : 8.2644476E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.1800	31-MAR-2008	2992.060	3301.408	15040.00	0.2973087	1.2786945E-02	48.73397
NP-237	211.2000	31-MAR-2008	4436.233	4903.836	15326.00	0.3023553	1.5313782E-02	68.92546
CM-244	248.1000	31-MAR-2008	5531.367	5886.119	15319.00	0.3024682	1.5319677E-02	50.29442

Instrument : CHAMBER 007
 Detector : 67607
 Standard ID : AESS-007
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:50
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:28:15
 Average Efficiency : 0.2987517
 Average Efficiency Error : 8.2224710E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.5400	31-MAR-2008	2988.637	3302.446	15182.00	0.2996237	1.2884341E-02	42.57047
NP-237	211.5600	31-MAR-2008	4435.294	4902.153	15258.00	0.3004684	1.5219127E-02	60.01212
CM-244	248.5200	31-MAR-2008	5534.094	5883.000	15012.00	0.2959056	1.4991191E-02	49.39333

Instrument : CHAMBER 008
 Detector : 67608
 Standard ID : AESS-008
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:50
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:28:32
 Average Efficiency : 0.3013897
 Average Efficiency Error : 8.2938299E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.8400	31-MAR-2008	2989.153	3301.438	15235.00	0.3002593	1.2910875E-02	42.71241
NP-237	211.8600	31-MAR-2008	4434.507	4904.855	15325.00	0.3013606	1.5263466E-02	54.81973
CM-244	248.8800	31-MAR-2008	5534.683	5882.517	15395.00	0.3030161	1.5346467E-02	48.56931

Instrument : CHAMBER 009
 Detector : 13285
 Standard ID : AESS-009
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:50
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:30:20
 Average Efficiency : 0.3268923
 Average Efficiency Error : 8.9884987E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6000	31-MAR-2008	2991.674	3301.916	16114.00	0.3179302	1.3657464E-02	66.58877
NP-237	211.6200	31-MAR-2008	4434.878	4904.893	16796.00	0.3306561	1.6728574E-02	72.27464
CM-244	248.5800	31-MAR-2008	5531.500	5884.726	17098.00	0.3369420	1.7043132E-02	60.55302

Instrument : CHAMBER 010
 Detector : 67614
 Standard ID : AESS-010
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:50
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:30:48
 Average Efficiency : 0.3108519
 Average Efficiency Error : 8.5507799E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.4800	31-MAR-2008	2989.398	3299.336	15624.00	0.3084310	1.3256389E-02	45.29923
NP-237	211.5000	31-MAR-2008	4435.356	4903.029	15823.00	0.3117176	1.5781658E-02	62.28148
CM-244	248.4600	31-MAR-2008	5535.638	5884.704	15898.00	0.3134455	1.5868310E-02	47.73524

Instrument : CHAMBER 011
 Detector : 9537
 Standard ID : AESS-011
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:50
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:31:07
 Average Efficiency : 0.3012484
 Average Efficiency Error : 8.2910275E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2992.403	3301.269	15029.00	0.2964421	1.2749840E-02	60.33253
NP-237	211.6800	31-MAR-2008	4433.162	4904.481	15445.00	0.3039742	1.5394324E-02	68.75066
CM-244	248.6400	31-MAR-2008	5534.355	5884.836	15510.00	0.3055743	1.5474575E-02	55.89643

Instrument : CHAMBER 012
 Detector : 33085
 Standard ID : AESS-012
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:50
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:31:33
 Average Efficiency : 0.2627239
 Average Efficiency Error : 7.2485376E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.9600	31-MAR-2008	2988.934	3300.644	12923.00	0.2545543	1.0980306E-02	69.28626
NP-237	211.9200	31-MAR-2008	4434.029	4906.413	13618.00	0.2677367	1.3582039E-02	66.87650
CM-244	248.9400	31-MAR-2008	5530.988	5886.052	13739.00	0.2703563	1.3713267E-02	61.75890

Instrument : CHAMBER 013
 Detector : 21084
 Standard ID : AESS-013
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:51
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:32:32
 Average Efficiency : 0.3419380
 Average Efficiency Error : 9.3927877E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	220.5600	31-MAR-2008	2991.703	3298.500	17330.00	0.3404337	1.4606893E-02	42.06797
NP-237	212.5200	31-MAR-2008	4437.055	4903.203	17499.00	0.3430764	1.7348781E-02	64.28647
CM-244	249.6600	31-MAR-2008	5535.151	5884.524	17477.00	0.3429209	1.7341256E-02	48.13530

Instrument : CHAMBER 014
 Detector : 67616
 Standard ID : AESS-014
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:51
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:32:51
 Average Efficiency : 0.3319059
 Average Efficiency Error : 9.1214683E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.9600	31-MAR-2008	2991.288	3300.146	16685.00	0.3286573	1.4110146E-02	44.41522
NP-237	211.9800	31-MAR-2008	4435.408	4904.168	16977.00	0.3336994	1.6880387E-02	62.24026
CM-244	249.0000	31-MAR-2008	5534.104	5885.210	17017.00	0.3347801	1.6934702E-02	45.25399

Instrument : CHAMBER 015
 Detector : 61581
 Standard ID : AESS-015
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:51
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:33:07
 Average Efficiency : 0.3170236
 Average Efficiency Error : 8.7176394E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.8400	31-MAR-2008	2991.847	3297.498	16041.00	0.3161444	1.3581790E-02	64.78296
NP-237	211.8600	31-MAR-2008	4435.843	4904.591	16153.00	0.3176780	1.6079374E-02	76.95576
CM-244	248.8800	31-MAR-2008	5532.612	5884.968	16136.00	0.3176011	1.6075775E-02	61.68940

Instrument : CHAMBER 016
 Detector : 21086
 Standard ID : AESS-016
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:51
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:33:33
 Average Efficiency : 0.3248047
 Average Efficiency Error : 8.9304391E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2989.301	3302.433	16152.00	0.3185929	1.3685390E-02	61.13655
NP-237	211.6800	31-MAR-2008	4437.532	4903.155	16563.00	0.3259902	1.6495198E-02	62.15930
CM-244	248.6400	31-MAR-2008	5532.509	5882.804	16901.00	0.3329794	1.6844943E-02	59.62445

Instrument : CHAMBER 017
 Detector : 33203
 Standard ID : AESS-017
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:51
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:33:46
 Average Efficiency : 0.2911891
 Average Efficiency Error : 8.0174990E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.7200	31-MAR-2008	2991.557	3299.721	14657.00	0.2890256	1.2436531E-02	56.39534
NP-237	211.7400	31-MAR-2008	4435.492	4901.432	14860.00	0.2924047	1.4815720E-02	62.57863
CM-244	248.7000	31-MAR-2008	5532.098	5885.662	14878.00	0.2930521	1.4848360E-02	54.89556

Instrument : CHAMBER 018
 Detector : 21063
 Standard ID : AESS-018
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:51
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:33:59
 Average Efficiency : 0.2712597
 Average Efficiency Error : 7.4777314E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.7800	31-MAR-2008	2987.725	3300.113	13576.00	0.2676359	1.1533036E-02	56.52152
NP-237	211.8000	31-MAR-2008	4437.223	4906.479	14056.00	0.2764908	1.4019912E-02	69.54169
CM-244	248.7600	31-MAR-2008	5534.259	5886.034	13781.00	0.2713790	1.3764549E-02	56.19759

Instrument : CHAMBER 019
 Detector : 64268
 Standard ID : AESS-019
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 16:56:34
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 07:06:00
 Average Efficiency : 0.2904274
 Average Efficiency Error : 7.9980409E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.5400	31-MAR-2008	2988.767	3298.781	14459.00	0.2853481	1.2281413E-02	49.08947
NP-237	211.5600	31-MAR-2008	4437.361	4902.707	15074.00	0.2968729	1.5039313E-02	67.38278
CM-244	248.5200	31-MAR-2008	5531.033	5882.536	14793.00	0.2915577	1.4773819E-02	55.50887

Instrument : CHAMBER 020
 Detector : 33093
 Standard ID : AESS-020
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 16:56:34
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 07:06:11
 Average Efficiency : 0.3298163
 Average Efficiency Error : 9.0658674E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.8400	31-MAR-2008	2991.187	3300.862	16442.00	0.3240506	1.3915714E-02	55.98397
NP-237	211.8000	31-MAR-2008	4433.841	4904.606	16867.00	0.3318096	1.6786059E-02	76.18159
CM-244	248.8200	31-MAR-2008	5533.546	5885.553	17097.00	0.3363885	1.7015433E-02	63.85828

Instrument : CHAMBER 021
 Detector : 67610
 Standard ID : AESS-021
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 16:56:34
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 07:06:24
 Average Efficiency : 0.3198357
 Average Efficiency Error : 8.7951459E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.5400	31-MAR-2008	2990.951	3298.948	15940.00	0.3145672	1.3515512E-02	40.93728
NP-237	211.5600	31-MAR-2008	4432.484	4902.044	16462.00	0.3241434	1.6402993E-02	55.05281
CM-244	248.5200	31-MAR-2008	5535.271	5887.028	16402.00	0.3232697	1.6359553E-02	44.25125

Instrument : CHAMBER 022
 Detector : 33894
 Standard ID : AESS-022
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 16:56:34
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 07:06:34
 Average Efficiency : 0.3182267
 Average Efficiency Error : 8.7509528E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2990.879	3299.609	15947.00	0.3145381	1.3514156E-02	44.42866
NP-237	211.6800	31-MAR-2008	4433.001	4905.660	16247.00	0.3197937	1.6185334E-02	58.45284
CM-244	248.6400	31-MAR-2008	5533.283	5882.844	16347.00	0.3220017	1.6296076E-02	48.74369

Instrument : CHAMBER 023
 Detector : 64260
 Standard ID : AESS-023
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 16:56:34
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 07:06:43
 Average Efficiency : 0.3282118
 Average Efficiency Error : 9.0222852E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2989.130	3298.996	16356.00	0.3226151	1.3855277E-02	46.65308
NP-237	211.6800	31-MAR-2008	4434.760	4902.332	16838.00	0.3313796	1.6764704E-02	66.13085
CM-244	248.6400	31-MAR-2008	5534.806	5883.799	16920.00	0.3332959	1.6860828E-02	54.79696

Instrument : CHAMBER 024
 Detector : 64262
 Standard ID : AESS-024
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 16:56:34
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 07:06:54
 Average Efficiency : 0.3252451
 Average Efficiency Error : 8.9439396E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.4200	31-MAR-2008	2990.902	3299.027	16005.00	0.3160322	1.3577504E-02	50.76370
NP-237	211.4400	31-MAR-2008	4432.596	4901.976	16932.00	0.3336366	1.6877759E-02	74.87817
CM-244	248.4000	31-MAR-2008	5534.792	5886.238	16786.00	0.3309990	1.6746141E-02	54.59205

Instrument : CHAMBER 025
 Detector : 45-149AA5
 Standard ID : AESS-025
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:37:55
 Average Efficiency : 0.3406054
 Average Efficiency Error : 9.3792416E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.3542	31-MAR-2008	2989.011	3299.417	15898.00	0.3352008	1.4393206E-02	55.20226
NP-237	164.4668	31-MAR-2008	4436.598	4904.734	13604.00	0.3446492	1.7483970E-02	68.11878
CM-244	159.7532	31-MAR-2008	5531.825	5883.604	13008.00	0.3445392	1.7489821E-02	56.60128

Instrument : CHAMBER 026
 Detector : 67600
 Standard ID : AESS-026
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:38:15
 Average Efficiency : 0.3382819
 Average Efficiency Error : 9.9048754E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.9469	31-MAR-2008	2988.418	3300.555	15995.00	0.3362412	1.7021049E-02	40.69424
NP-237	164.5830	31-MAR-2008	4434.754	4906.306	13241.00	0.3352160	1.7012080E-02	58.99073
CM-244	160.1516	31-MAR-2008	5533.034	5882.370	13007.00	0.3436493	1.7444680E-02	35.86444

Instrument : CHAMBER 027
 Detector : 31436
 Standard ID : AESS-027
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:38:52
 Average Efficiency : 0.2931353
 Average Efficiency Error : 8.6077256E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.5143	31-MAR-2008	2990.468	3302.206	13427.00	0.2828727	1.4352824E-02	78.50208
NP-237	164.4123	31-MAR-2008	4433.015	4902.190	12272.00	0.3110068	1.5801737E-02	126.9030
CM-244	159.7881	31-MAR-2008	5530.961	5885.987	10893.00	0.2884440	1.4684636E-02	112.4216

Instrument : CHAMBER 028
 Detector : 64257
 Standard ID : AESS-028
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:39:05
 Average Efficiency : 0.3230508
 Average Efficiency Error : 9.4649224E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.5272	31-MAR-2008	2991.309	3299.531	15195.00	0.3200992	1.6214324E-02	45.32193
NP-237	164.4778	31-MAR-2008	4432.667	4905.933	12828.00	0.3249557	1.6499180E-02	60.76536
CM-244	160.0205	31-MAR-2008	5534.979	5885.627	12261.00	0.3241984	1.6472237E-02	49.55410

Instrument : CHAMBER 029
 Detector : 30419
 Standard ID : AESS-029
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:39:38
 Average Efficiency : 0.2805661
 Average Efficiency Error : 8.2578044E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6364	31-MAR-2008	2990.190	3298.860	12131.00	0.2567045	1.3045177E-02	69.24912
NP-237	163.9949	31-MAR-2008	4433.115	4902.434	11485.00	0.2917785	1.4840850E-02	76.58888
CM-244	159.3367	31-MAR-2008	5534.104	5887.621	11357.00	0.3015895	1.5342742E-02	66.52552

Instrument : CHAMBER 030
 Detector : 30420
 Standard ID : AESS-030
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:40:08
 Average Efficiency : 0.2957695
 Average Efficiency Error : 8.6888429E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.0821	31-MAR-2008	2989.067	3298.539	13041.00	0.2764995	1.4035434E-02	56.01322
NP-237	162.8058	31-MAR-2008	4436.402	4902.014	11938.00	0.3055154	1.5529603E-02	66.15048
CM-244	158.2342	31-MAR-2008	5531.193	5883.414	11636.00	0.3100401	1.5766226E-02	61.00070

Instrument : CHAMBER 031
 Detector : 67042
 Standard ID : AESS-031
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:40:25
 Average Efficiency : 0.3415669
 Average Efficiency Error : 9.4050542E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.8931	31-MAR-2008	2990.988	3298.296	16015.00	0.3381640	1.4518601E-02	44.57150
NP-237	163.8397	31-MAR-2008	4434.109	4901.458	13585.00	0.3454550	1.7525246E-02	65.40717
CM-244	159.1148	31-MAR-2008	5535.258	5885.759	12931.00	0.3426208	1.7394040E-02	45.80222

Instrument : CHAMBER 032
 Detector : 67041
 Standard ID : AESS-032
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:40:39
 Average Efficiency : 0.3181251
 Average Efficiency Error : 8.7692728E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6080	31-MAR-2008	2987.679	3301.485	15022.00	0.3176540	1.3653293E-02	44.01212
NP-237	164.1564	31-MAR-2008	4437.104	4906.318	12488.00	0.3169745	1.6100546E-02	57.26062
CM-244	159.1696	31-MAR-2008	5531.742	5883.417	12080.00	0.3199668	1.6261103E-02	48.94222

Instrument : CHAMBER 033
 Detector : 28647
 Standard ID : AESS-033
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:40:58
 Average Efficiency : 0.3326144
 Average Efficiency Error : 9.1638612E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.4935	31-MAR-2008	2992.270	3297.939	15397.00	0.3257724	1.3996089E-02	48.59986
NP-237	163.8186	31-MAR-2008	4434.100	4906.178	13372.00	0.3400940	1.7257191E-02	66.94678
CM-244	158.8401	31-MAR-2008	5530.896	5886.310	12639.00	0.3354625	1.7036533E-02	56.35600

Instrument : CHAMBER 034
 Detector : 32697
 Standard ID : AESS-034
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:41:13
 Average Efficiency : 0.3332006
 Average Efficiency Error : 9.1819596E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.4044	31-MAR-2008	2988.718	3298.173	15234.00	0.3224691	1.3856778E-02	50.70973
NP-237	163.8549	31-MAR-2008	4435.160	4904.428	13367.00	0.3398976	1.7247308E-02	71.83704
CM-244	158.9554	31-MAR-2008	5534.868	5886.168	12944.00	0.3433413	1.7430296E-02	55.96943

Instrument : CHAMBER 035
 Detector : 29271
 Standard ID : AESS-035
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:41:31
 Average Efficiency : 0.3223482
 Average Efficiency Error : 8.8828988E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.8607	31-MAR-2008	2990.285	3299.146	15333.00	0.3221879	1.3843106E-02	57.06120
NP-237	164.8691	31-MAR-2008	4432.447	4904.815	12729.00	0.3216645	1.6334027E-02	76.90110
CM-244	159.9841	31-MAR-2008	5531.833	5886.345	12266.00	0.3232650	1.6424684E-02	63.45338

Instrument : CHAMBER 036
 Detector : 64251
 Standard ID : AESS-036
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:54
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:41:41
 Average Efficiency : 0.3483983
 Average Efficiency Error : 9.5902206E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.7468	31-MAR-2008	2992.099	3298.635	16301.00	0.3444577	1.4784414E-02	47.77813
NP-237	164.2379	31-MAR-2008	4437.224	4903.817	13817.00	0.3504970	1.7776771E-02	61.36576
CM-244	159.1870	31-MAR-2008	5531.387	5886.847	13291.00	0.3520326	1.7864531E-02	45.20775

Instrument : CHAMBER 037
 Detector : 45-149BB5
 Standard ID : AESS-037
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:55
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:41:51
 Average Efficiency : 0.3740062
 Average Efficiency Error : 1.0283993E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.2101	31-MAR-2008	2988.573	3299.300	17555.00	0.3700889	1.5865626E-02	51.26937
NP-237	164.5849	31-MAR-2008	4432.715	4901.479	14901.00	0.3772191	1.9112453E-02	74.83063
CM-244	159.2923	31-MAR-2008	5534.815	5887.203	14225.00	0.3764711	1.9086454E-02	56.76612

Instrument : CHAMBER 038
 Detector : 19323
 Standard ID : AESS-038
 Standard Reference Date : 15-JAN-2007 09:42:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:55
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:42:00
 Average Efficiency : 0.3695237
 Average Efficiency Error : 1.0163209E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.1047	31-MAR-2008	2989.453	3302.487	17242.00	0.3654641	1.5671762E-02	49.18790
NP-237	163.8862	31-MAR-2008	4435.228	4903.212	14634.00	0.3720390	1.8854493E-02	66.07027
CM-244	158.6339	31-MAR-2008	5532.338	5883.104	14044.00	0.3729040	1.8909015E-02	48.36161

Instrument : CHAMBER 039
 Detector : 45-149BB2
 Standard ID : AESS-039
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:55
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:42:13
 Average Efficiency : 0.3808039
 Average Efficiency Error : 1.0471592E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.0532	31-MAR-2008	2991.868	3301.127	17457.00	0.3701836	1.5871065E-02	52.10062
NP-237	164.0872	31-MAR-2008	4436.183	4904.348	15323.00	0.3890791	1.9706262E-02	70.92157
CM-244	159.1280	31-MAR-2008	5532.256	5884.874	14681.00	0.3889038	1.9708447E-02	56.92753

Instrument : CHAMBER 040
 Detector : 30446
 Standard ID : AESS-040
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:55
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:42:25
 Average Efficiency : 0.3349785
 Average Efficiency Error : 9.2269760E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.7155	31-MAR-2008	2987.839	3298.133	15577.00	0.3292108	1.4140937E-02	47.99807
NP-237	164.4573	31-MAR-2008	4435.645	4904.238	13356.00	0.3383374	1.7168405E-02	68.68345
CM-244	159.5251	31-MAR-2008	5532.217	5884.629	12875.00	0.3401834	1.7271556E-02	52.55873

Instrument : CHAMBER 041
 Detector : 22834
 Standard ID : AESS-041
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:55
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:42:36
 Average Efficiency : 0.3449396
 Average Efficiency Error : 9.4997734E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.1027	31-MAR-2008	2992.063	3301.184	15781.00	0.3345593	1.4367442E-02	50.93717
NP-237	163.9214	31-MAR-2008	4434.555	4901.513	13827.00	0.3514401	1.7824400E-02	64.05372
CM-244	159.2273	31-MAR-2008	5532.661	5883.952	13395.00	0.3545956	1.7992726E-02	56.59785

Instrument : CHAMBER 042
 Detector : 67617
 Standard ID : AESS-042
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:55
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 12:43:21
 Average Efficiency : 0.3444154
 Average Efficiency Error : 9.4813835E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.1939	31-MAR-2008	2991.619	3299.566	16276.00	0.3431484	1.4728606E-02	40.04906
NP-237	164.5324	31-MAR-2008	4432.695	4906.403	13672.00	0.3461795	1.7560439E-02	66.04129
CM-244	160.0771	31-MAR-2008	5531.039	5882.364	13078.00	0.3444521	1.7484024E-02	44.35906

Instrument : CHAMBER 043
 Detector : 42470
 Standard ID : AESS-043
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:43:32
 Average Efficiency : 0.3510045
 Average Efficiency Error : 9.6627185E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.8850	31-MAR-2008	2989.780	3301.058	16202.00	0.3421263	1.4685841E-02	53.68605
NP-237	164.5400	31-MAR-2008	4437.489	4902.681	14033.00	0.3553533	1.8019123E-02	67.91936
CM-244	159.6254	31-MAR-2008	5533.259	5887.224	13643.00	0.3602806	1.8276336E-02	56.55614

Instrument : CHAMBER 044
 Detector : 67612
 Standard ID : AESS-044
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:43:43
 Average Efficiency : 0.3526821
 Average Efficiency Error : 9.7067319E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.9081	31-MAR-2008	2990.191	3297.941	16463.00	0.3475971	1.4916717E-02	44.02129
NP-237	164.2876	31-MAR-2008	4435.166	4902.999	13928.00	0.3532364	1.7913651E-02	60.00750
CM-244	159.3916	31-MAR-2008	5531.997	5882.728	13601.00	0.3597170	1.8248517E-02	44.82756

Instrument : CHAMBER 045
 Detector : 67601
 Standard ID : AESS-045
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:44:08
 Average Efficiency : 0.3380803
 Average Efficiency Error : 9.3096336E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.3272	31-MAR-2008	2989.790	3301.507	15978.00	0.3366440	1.4453907E-02	39.31757
NP-237	164.6439	31-MAR-2008	4435.139	4901.601	13350.00	0.3378383	1.7143128E-02	56.19626
CM-244	160.0604	31-MAR-2008	5534.207	5884.052	12923.00	0.3403794	1.7280417E-02	38.80642

Instrument : CHAMBER 046
 Detector : 42471
 Standard ID : AESS-046
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:44:20
 Average Efficiency : 0.3471251
 Average Efficiency Error : 9.5563540E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6139	31-MAR-2008	2990.680	3299.770	16132.00	0.3411155	1.4643519E-02	52.42293
NP-237	164.3834	31-MAR-2008	4434.468	4902.601	13807.00	0.3499452	1.7748946E-02	69.23063
CM-244	159.4253	31-MAR-2008	5530.566	5883.263	13359.00	0.3532536	1.7925248E-02	57.42862

Instrument : CHAMBER 047
 Detector : 30449
 Standard ID : AESS-047
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:44:33
 Average Efficiency : 0.3166592
 Average Efficiency Error : 8.7311966E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.7914	31-MAR-2008	2988.507	3298.914	14649.00	0.3094790	1.3308019E-02	55.42528
NP-237	164.4311	31-MAR-2008	4437.496	4901.572	12703.00	0.3218805	1.6345471E-02	66.09319
CM-244	159.1144	31-MAR-2008	5530.693	5883.866	12165.00	0.3222918	1.6377496E-02	54.51521

Instrument : CHAMBER 048
 Detector : 42483
 Standard ID : AESS-048
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 07:56:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 12:44:42
 Average Efficiency : 0.3141228
 Average Efficiency Error : 8.6610997E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6701	31-MAR-2008	2990.457	3302.485	14721.00	0.3111911	1.3380432E-02	50.48467
NP-237	163.8173	31-MAR-2008	4433.966	4903.368	12459.00	0.3168867	1.6096678E-02	63.94987
CM-244	159.3427	31-MAR-2008	5531.679	5883.913	11929.00	0.3155916	1.6042065E-02	55.67189

Instrument : CHAMBER 065
 Detector : 21087
 Standard ID : AESS-001
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:55
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:20:12
 Average Efficiency : 0.2976914
 Average Efficiency Error : 8.2149040E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	199.3914	31-MAR-2008	2991.791	3300.255	14056.00	0.2948229	1.2687684E-02	42.21224
NP-237	164.9840	31-MAR-2008	4434.807	4903.598	11871.00	0.2997837	1.5239662E-02	51.80203
CM-244	160.0970	31-MAR-2008	5533.856	5885.276	11347.00	0.2997400	1.5249194E-02	45.56360

Instrument : CHAMBER 066
 Detector : 64273
 Standard ID : AESS-002
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:55
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:20:24
 Average Efficiency : 0.2963789
 Average Efficiency Error : 5.6790714E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.4800	31-MAR-2008	2990.281	3298.426	14999.00	0.2960943	6.7150425E-03	49.16427
NP-237	211.5000	31-MAR-2008	4437.435	4901.803	14995.00	0.2954055	1.4965987E-02	62.48832
CM-244	248.4000	31-MAR-2008	5534.930	5886.582	15153.00	0.2988206	1.5137065E-02	57.11131

Instrument : CHAMBER 067
 Detector : 64269
 Standard ID : AESS-003
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:55
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:20:35
 Average Efficiency : 0.3063407
 Average Efficiency Error : 5.8610318E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.3600	31-MAR-2008	2990.631	3300.068	15465.00	0.3054606	6.9139157E-03	54.28040
NP-237	211.3800	31-MAR-2008	4433.523	4905.261	15547.00	0.3064588	1.5518807E-02	68.96381
CM-244	248.2800	31-MAR-2008	5535.491	5886.074	15756.00	0.3107774	1.5735116E-02	60.59424

Instrument : CHAMBER 068
 Detector : 64270
 Standard ID : AESS-004
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:55
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:20:49
 Average Efficiency : 0.2890473
 Average Efficiency Error : 5.5454709E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.1800	31-MAR-2008	2991.683	3300.518	14644.00	0.2894820	6.5753898E-03	41.06725
NP-237	211.2000	31-MAR-2008	4433.958	4906.490	14550.00	0.2870459	1.4548247E-02	59.38217
CM-244	248.1000	31-MAR-2008	5533.816	5883.151	14645.00	0.2889193	1.4642379E-02	48.43303

Instrument : CHAMBER 069
 Detector : 39172
 Standard ID : AESS-005
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:55
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:21:02
 Average Efficiency : 0.2782558
 Average Efficiency Error : 5.3492864E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2987.791	3301.156	14067.00	0.2774682	6.3195899E-03	63.31368
NP-237	211.6800	31-MAR-2008	4433.209	4905.367	14264.00	0.2807654	1.4233752E-02	70.54929
CM-244	248.6400	31-MAR-2008	5532.375	5887.011	14198.00	0.2797308	1.4182283E-02	62.25402

Instrument : CHAMBER 070
 Detector : 67615
 Standard ID : AESS-006
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:55
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:21:21
 Average Efficiency : 0.2740724
 Average Efficiency Error : 5.4115932E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.1800	31-MAR-2008	2988.160	3302.131	16600.00	0.3281481	7.3953145E-03	44.87737
NP-237	211.2000	31-MAR-2008	4433.289	4904.256	16516.00	0.3258086	1.6486555E-02	70.09012
CM-244	248.1000	31-MAR-2008	5534.314	5887.810	8979.000	0.1772905	9.0598771E-03	0.0000000E+00

Instrument : CHAMBER 071
 Detector : 64259
 Standard ID : AESS-007
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:21:34
 Average Efficiency : 0.3088946
 Average Efficiency Error : 5.9064562E-03
 Confidence : 95.00000

Cal. Isteps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.5400	31-MAR-2008	2990.635	3301.480	15660.00	0.3090586	6.9898544E-03	46.91311
NP-237	211.5600	31-MAR-2008	4435.154	4903.949	15664.00	0.3085024	1.5620827E-02	63.29548
CM-244	248.5200	31-MAR-2008	5531.946	5884.246	15649.00	0.3084675	1.5619345E-02	47.71564

Instrument : CHAMBER 072
 Detector : 45-149AA3
 Standard ID : AESS-008
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:22:06
 Average Efficiency : 0.3135878
 Average Efficiency Error : 5.9917187E-03
 Confidence : 95.00000

Cal. Isteps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.8400	31-MAR-2008	2992.402	3297.545	15905.00	0.3134654	7.0827021E-03	53.72037
NP-237	211.8600	31-MAR-2008	4437.119	4903.416	15850.00	0.3117142	1.5781162E-02	68.05108
CM-244	248.8800	31-MAR-2008	5532.665	5882.415	16065.00	0.3161387	1.6002707E-02	60.06459

Instrument : CHAMBER 073
 Detector : 33211
 Standard ID : AESS-009
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:22:15
 Average Efficiency : 0.3147053
 Average Efficiency Error : 6.0144984E-03
 Confidence : 95.00000

Cal. Isteps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6000	31-MAR-2008	2990.416	3300.636	15821.00	0.3121507	7.0553012E-03	57.24704
NP-237	211.6200	31-MAR-2008	4433.325	4902.110	16376.00	0.3224149	1.6316464E-02	68.35458
CM-244	248.5800	31-MAR-2008	5531.192	5886.804	16275.00	0.3205924	1.6225697E-02	55.18633

Instrument : CHAMBER 074
 Detector : 64258
 Standard ID : AESS-010
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:22:25
 Average Efficiency : 0.3067732
 Average Efficiency Error : 5.8705085E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.4800	31-MAR-2008	2990.284	3299.013	15403.00	0.3040697	6.8841800E-03	48.73157
NP-237	211.5000	31-MAR-2008	4435.565	4901.542	15912.00	0.3134520	1.5868401E-02	69.06260
CM-244	248.4600	31-MAR-2008	5531.163	5886.835	15957.00	0.3145106	1.5921650E-02	54.39740

Instrument : CHAMBER 075
 Detector : 68550
 Standard ID : AESS-011
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:22:34
 Average Efficiency : 0.3118487
 Average Efficiency Error : 5.9598549E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2988.327	3302.223	15836.00	0.3123613	7.0596477E-03	43.07364
NP-237	211.6800	31-MAR-2008	4435.888	4903.300	15746.00	0.3099085	1.5691055E-02	62.49050
CM-244	248.6400	31-MAR-2008	5530.826	5885.698	15800.00	0.3112511	1.5758475E-02	49.52983

Instrument : CHAMBER 076
 Detector : 64261
 Standard ID : AESS-012
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:56
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:22:43
 Average Efficiency : 0.3052481
 Average Efficiency Error : 5.8394098E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.9600	31-MAR-2008	2992.455	3301.238	15516.00	0.3056320	6.9163591E-03	46.97611
NP-237	211.9200	31-MAR-2008	4435.189	4902.956	15466.00	0.3040759	1.5399163E-02	58.25933
CM-244	248.9400	31-MAR-2008	5531.165	5886.524	15477.00	0.3045152	1.5421419E-02	50.69658

Instrument : CHAMBER 077
 Detector : 28239
 Standard ID : AESS-013
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:57
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:22:52
 Average Efficiency : 0.3192470
 Average Efficiency Error : 6.0948944E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	220.5600	31-MAR-2008	2990.517	3302.122	16177.00	0.3177854	7.1728728E-03	56.91198
NP-237	212.5200	31-MAR-2008	4437.245	4906.059	16296.00	0.3194575	1.6167777E-02	70.94991
CM-244	249.6600	31-MAR-2008	5533.580	5885.369	16655.00	0.3267936	1.6534841E-02	59.81492

Instrument : CHAMBER 078
 Detector : 34425
 Standard ID : AESS-014
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:57
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:23:01
 Average Efficiency : 0.3185293
 Average Efficiency Error : 6.0818465E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.9600	31-MAR-2008	2990.928	3301.822	16138.00	0.3178841	7.1761515E-03	54.33818
NP-237	211.9800	31-MAR-2008	4435.768	4904.714	16207.00	0.3185502	1.6122883E-02	70.92686
CM-244	249.0000	31-MAR-2008	5532.949	5885.398	16359.00	0.3218317	1.6287243E-02	54.23340

Instrument : CHAMBER 079
 Detector : 45-149AA2
 Standard ID : AESS-015
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:57
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:23:13
 Average Efficiency : 0.3286642
 Average Efficiency Error : 6.2665152E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.8400	31-MAR-2008	2988.357	3298.630	16635.00	0.3278528	7.3877363E-03	64.45906
NP-237	211.8600	31-MAR-2008	4437.143	4902.313	16855.00	0.3314843	1.6769739E-02	75.58555
CM-244	248.8800	31-MAR-2008	5534.692	5883.002	16767.00	0.3300129	1.6696431E-02	64.98941

Instrument : CHAMBER 080
 Detector : 68546
 Standard ID : AESS-016
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:57
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:23:24
 Average Efficiency : 0.3236372
 Average Efficiency Error : 6.1750407E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2990.359	3302.184	16383.00	0.3231508	7.2884103E-03	44.83604
NP-237	211.6800	31-MAR-2008	4434.300	4904.458	16512.00	0.3250194	1.6446630E-02	68.72423
CM-244	248.6400	31-MAR-2008	5534.931	5885.692	16482.00	0.3247305	1.6432468E-02	49.17235

Instrument : CHAMBER 081
 Detector : 64271
 Standard ID : AESS-017
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:57
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:23:39
 Average Efficiency : 0.3232972
 Average Efficiency Error : 6.1688987E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.7200	31-MAR-2008	2991.296	3299.128	16362.00	0.3226484	7.2776405E-03	52.46377
NP-237	211.7400	31-MAR-2008	4436.670	4905.832	16541.00	0.3254838	1.6469806E-02	67.34964
CM-244	248.7000	31-MAR-2008	5532.510	5886.365	16471.00	0.3244260	1.6417203E-02	51.25284

Instrument : CHAMBER 082
 Detector : 64263
 Standard ID : AESS-018
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:57
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:24:03
 Average Efficiency : 0.3101551
 Average Efficiency Error : 5.9314324E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.7800	31-MAR-2008	2990.689	3298.309	15605.00	0.3076368	6.9592288E-03	46.19552
NP-237	211.8000	31-MAR-2008	4433.539	4905.162	16110.00	0.3169032	1.6040698E-02	61.33957
CM-244	248.7600	31-MAR-2008	5531.678	5886.144	16087.00	0.3167811	1.6034883E-02	47.57530

Instrument : CHAMBER 083
 Detector : 34436
 Standard ID : AESS-019
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:58
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 16:24:31
 Average Efficiency : 0.3347818
 Average Efficiency Error : 6.3812197E-03
 Confidence : 95.00000

Cal. Isteps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.5400	31-MAR-2008	2991.414	3302.544	16771.00	0.3309851	7.4547380E-03	46.75359
NP-237	211.5600	31-MAR-2008	4436.117	4904.198	17645.00	0.3474759	1.7569672E-02	68.59554
CM-244	248.5200	31-MAR-2008	5531.398	5885.486	17399.00	0.3429632	1.7344262E-02	56.09907

Instrument : CHAMBER 084
 Detector : 29953
 Standard ID : AESS-020
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:58
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 16:24:40
 Average Efficiency : 0.3246663
 Average Efficiency Error : 6.1964449E-03
 Confidence : 95.00000

Cal. Isteps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.8400	31-MAR-2008	2990.377	3301.342	16307.00	0.3213886	7.2506922E-03	56.04361
NP-237	211.8000	31-MAR-2008	4435.283	4903.942	16678.00	0.3280681	1.6598992E-02	73.14220
CM-244	248.8200	31-MAR-2008	5532.292	5887.212	17239.00	0.3393996	1.7165838E-02	58.87968

Instrument : CHAMBER 085
 Detector : 30451
 Standard ID : AESS-021
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:58
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 16:24:51
 Average Efficiency : 0.2842405
 Average Efficiency Error : 5.4625189E-03
 Confidence : 95.00000

Cal. Isteps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.5400	31-MAR-2008	2990.624	3301.923	14189.00	0.2800279	6.3741300E-03	56.45485
NP-237	211.5600	31-MAR-2008	4433.569	4904.991	15012.00	0.2956520	1.4978264E-02	61.33212
CM-244	248.5200	31-MAR-2008	5534.007	5885.666	15023.00	0.2961282	1.5002327E-02	56.39838

Instrument : CHAMBER 086
 Detector : 29278
 Standard ID : AESS-022
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:58
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 16:25:44
 Average Efficiency : 0.2521503
 Average Efficiency Error : 4.8747766E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2990.054	3299.080	12703.00	0.2505639	5.7486529E-03	54.09421
NP-237	211.6800	31-MAR-2008	4434.617	4904.216	12857.00	0.2530657	1.2848627E-02	58.89091
CM-244	248.6400	31-MAR-2008	5531.494	5882.521	13172.00	0.2595167	1.3171462E-02	54.80113

Instrument : CHAMBER 087
 Detector : 34430
 Standard ID : AESS-023
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:58
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 16:25:55
 Average Efficiency : 0.2790660
 Average Efficiency Error : 5.3660525E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2991.968	3301.127	14012.00	0.2763836	6.2965793E-03	54.21997
NP-237	211.6800	31-MAR-2008	4436.935	4906.548	14522.00	0.2858393	1.4487477E-02	62.10177
CM-244	248.6400	31-MAR-2008	5533.762	5884.712	14543.00	0.2865283	1.4522191E-02	52.07373

Instrument : CHAMBER 088
 Detector : 30434
 Standard ID : AESS-024
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:58
 Calibration Count Time : 239.9998
 Efficiency Calibration Date/Time : 1-MAY-2007 16:26:16
 Average Efficiency : 0.2539479
 Average Efficiency Error : 4.9129887E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.4200	31-MAR-2008	2988.375	3300.391	12607.00	0.2489423	5.7147001E-03	79.47893
NP-237	211.4400	31-MAR-2008	4435.917	4905.261	13732.00	0.2706006	1.3725684E-02	83.51255
CM-244	248.4000	31-MAR-2008	5534.690	5885.848	13475.00	0.2657429	1.3483000E-02	80.27765

Instrument : CHAMBER 089
 Detector : 21087
 Standard ID : AESS-025
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:59
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:26:26
 Average Efficiency : 0.3097653
 Average Efficiency Error : 8.5433675E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.3542	31-MAR-2008	2992.246	3299.439	14457.00	0.3048194	1.3110895E-02	44.69580
NP-237	164.4668	31-MAR-2008	4432.916	4903.734	12286.00	0.3112463	1.5813643E-02	55.95186
CM-244	159.7532	31-MAR-2008	5534.453	5882.903	11917.00	0.3156481	1.6045092E-02	46.34407

Instrument : CHAMBER 090
 Detector : 38159
 Standard ID : AESS-026
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:59
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:26:34
 Average Efficiency : 0.3449823
 Average Efficiency Error : 1.0098753E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.9469	31-MAR-2008	2989.913	3298.430	16071.00	0.3378403	1.7101016E-02	48.68348
NP-237	164.5830	31-MAR-2008	4433.174	4902.043	13772.00	0.3486408	1.7683409E-02	63.68908
CM-244	160.1516	31-MAR-2008	5532.406	5883.884	13208.00	0.3489728	1.7710883E-02	54.41468

Instrument : CHAMBER 091
 Detector : 33205
 Standard ID : AESS-027
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:59
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:26:43
 Average Efficiency : 0.3504358
 Average Efficiency Error : 1.0255842E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.5143	31-MAR-2008	2987.902	3300.425	16430.00	0.3461398	1.7516475E-02	48.42795
NP-237	164.4123	31-MAR-2008	4435.640	4902.170	13966.00	0.3539071	1.7947020E-02	64.11929
CM-244	159.7881	31-MAR-2008	5534.358	5883.729	13272.00	0.3514614	1.7835921E-02	48.62526

Instrument : CHAMBER 092
 Detector : 67606
 Standard ID : AESS-028
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:59
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:26:52
 Average Efficiency : 0.3333510
 Average Efficiency Error : 9.7625917E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.5272	31-MAR-2008	2990.724	3298.585	15672.00	0.3301493	1.6716870E-02	38.89836
NP-237	164.4778	31-MAR-2008	4434.974	4901.923	13347.00	0.3381034	1.7156638E-02	53.80600
CM-244	160.0205	31-MAR-2008	5534.622	5884.249	12556.00	0.3320179	1.6863253E-02	36.48722

Instrument : CHAMBER 093
 Detector : 33206
 Standard ID : AESS-029
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:59
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:27:06
 Average Efficiency : 0.3425946
 Average Efficiency Error : 1.0030143E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6364	31-MAR-2008	2990.240	3299.205	15950.00	0.3375201	1.7086377E-02	49.30925
NP-237	163.9949	31-MAR-2008	4437.498	4904.567	13497.00	0.3429163	1.7398037E-02	68.40219
CM-244	159.3367	31-MAR-2008	5530.688	5887.497	13092.00	0.3476769	1.7647414E-02	50.52053

Instrument : CHAMBER 094
 Detector : 33207
 Standard ID : AESS-030
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:14:59
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:27:15
 Average Efficiency : 0.3253837
 Average Efficiency Error : 9.5337797E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.0821	31-MAR-2008	2987.953	3298.680	15515.00	0.3289556	1.6658496E-02	45.23853
NP-237	162.8058	31-MAR-2008	4432.765	4902.096	12725.00	0.3256570	1.6536810E-02	52.10061
CM-244	158.2342	31-MAR-2008	5531.130	5884.166	12072.00	0.3216766	1.6348124E-02	45.61957

Instrument : CHAMBER 095
 Detector : 64267
 Standard ID : AESS-031
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:00
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:27:23
 Average Efficiency : 0.3411478
 Average Efficiency Error : 9.3936203E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.8931	31-MAR-2008	2987.598	3298.442	16014.00	0.3381442	1.4517764E-02	44.50122
NP-237	163.8397	31-MAR-2008	4434.584	4905.478	13564.00	0.3449451	1.7499724E-02	53.31415
CM-244	159.1148	31-MAR-2008	5531.871	5886.679	12895.00	0.3417048	1.7348209E-02	45.38264

Instrument : CHAMBER 096
 Detector : 45-149BB3
 Standard ID : AESS-032
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:00
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:27:37
 Average Efficiency : 0.3349886
 Average Efficiency Error : 9.2266994E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6080	31-MAR-2008	2990.686	3298.297	15683.00	0.3316327	1.4243293E-02	50.80575
NP-237	164.1564	31-MAR-2008	4433.580	4905.264	13269.00	0.3367978	1.7091829E-02	60.58236
CM-244	159.1696	31-MAR-2008	5531.896	5886.442	12761.00	0.3380376	1.7164735E-02	52.08006

Instrument : CHAMBER 097
 Detector : 64266
 Standard ID : AESS-033
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:00
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:27:48
 Average Efficiency : 0.3524451
 Average Efficiency Error : 9.7002769E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.4935	31-MAR-2008	2989.725	3301.659	16485.00	0.3487938	1.4967742E-02	42.99713
NP-237	163.8186	31-MAR-2008	4435.894	4902.524	14072.00	0.3579041	1.8147778E-02	62.01743
CM-244	158.8401	31-MAR-2008	5535.287	5885.187	13274.00	0.3523564	1.7881298E-02	48.49332

Instrument : CHAMBER 098
 Detector : 30431
 Standard ID : AESS-034
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:00
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:28:25
 Average Efficiency : 0.3473289
 Average Efficiency Error : 9.5641082E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.4044	31-MAR-2008	2992.242	3299.559	15985.00	0.3383673	1.4527790E-02	51.62011
NP-237	163.8549	31-MAR-2008	4433.135	4903.836	13730.00	0.3491220	1.7708581E-02	64.46843
CM-244	158.9554	31-MAR-2008	5534.260	5882.483	13555.00	0.3595546	1.8241055E-02	49.05177

Instrument : CHAMBER 099
 Detector : 64272
 Standard ID : AESS-035
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:00
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:28:36
 Average Efficiency : 0.3581837
 Average Efficiency Error : 9.8544462E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.8607	31-MAR-2008	2989.912	3297.756	16916.00	0.3554524	1.5247079E-02	46.31182
NP-237	164.8691	31-MAR-2008	4434.189	4901.477	14253.00	0.3602100	1.8261479E-02	59.46444
CM-244	159.9841	31-MAR-2008	5534.056	5886.616	13663.00	0.3600762	1.8265469E-02	49.62686

Instrument : CHAMBER 100
 Detector : 42468
 Standard ID : AESS-036
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:00
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:28:45
 Average Efficiency : 0.3463991
 Average Efficiency Error : 9.5387259E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.7468	31-MAR-2008	2991.033	3299.540	15919.00	0.3363869	1.4443776E-02	51.14854
NP-237	164.2379	31-MAR-2008	4436.987	4903.792	13947.00	0.3538314	1.7943474E-02	65.20541
CM-244	159.1870	31-MAR-2008	5530.439	5884.783	13383.00	0.3544566	1.7985770E-02	57.73284

Instrument : CHAMBER 101
 Detector : 64253
 Standard ID : AESS-037
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:01
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:28:55
 Average Efficiency : 0.3516082
 Average Efficiency Error : 9.6771074E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.2417	31-MAR-2008	2989.866	3300.595	16462.00	0.3469926	1.4890789E-02	51.42199
NP-237	164.5849	31-MAR-2008	4435.442	4905.420	14023.00	0.3550093	1.8001849E-02	59.08757
CM-244	159.2923	31-MAR-2008	5535.607	5884.045	13410.00	0.3549560	1.8010553E-02	52.11962

Instrument : CHAMBER 102
 Detector : 30438
 Standard ID : AESS-038
 Standard Reference Date : 15-JAN-2007 09:42:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:01
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:29:08
 Average Efficiency : 0.3538894
 Average Efficiency Error : 9.7406451E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.1047	31-MAR-2008	2988.847	3302.531	16363.00	0.3468340	1.4885463E-02	52.01577
NP-237	163.8862	31-MAR-2008	4437.375	4906.121	14231.00	0.3618111	1.8343033E-02	64.93488
CM-244	158.6339	31-MAR-2008	5530.795	5887.414	13427.00	0.3566062	1.8093970E-02	53.04369

Instrument : CHAMBER 103
 Detector : 64252
 Standard ID : AESS-039
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:01
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:29:18
 Average Efficiency : 0.3688044
 Average Efficiency Error : 1.0143859E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.1104	31-MAR-2008	2990.298	3301.040	17156.00	0.3636965	1.5597203E-02	44.57205
NP-237	164.0872	31-MAR-2008	4436.922	4902.495	14699.00	0.3732518	1.8914815E-02	60.95978
CM-244	159.1280	31-MAR-2008	5534.121	5883.533	14034.00	0.3718500	1.8855613E-02	43.27628

Instrument : CHAMBER 104
 Detector : 30436
 Standard ID : AESS-040
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:01
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:29:37
 Average Efficiency : 0.3269685
 Average Efficiency Error : 9.0096099E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.7482	31-MAR-2008	2989.490	3300.558	15234.00	0.3219097	1.3832738E-02	42.75311
NP-237	164.4573	31-MAR-2008	4437.521	4903.491	13084.00	0.3314944	1.6826171E-02	62.28766
CM-244	159.5251	31-MAR-2008	5535.615	5885.283	12482.00	0.3299037	1.6757417E-02	52.53686

Instrument : CHAMBER 105
 Detector : 64254
 Standard ID : AESS-041
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:01
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:29:52
 Average Efficiency : 0.3510220
 Average Efficiency Error : 9.6618040E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.1593	31-MAR-2008	2987.892	3298.744	16337.00	0.3462484	1.4860728E-02	47.08099
NP-237	163.9214	31-MAR-2008	4433.231	4902.706	13945.00	0.3544636	1.7975569E-02	63.81528
CM-244	159.2273	31-MAR-2008	5531.912	5885.035	13390.00	0.3545713	1.7991420E-02	50.29780

Instrument : CHAMBER 106
 Detector : 64274
 Standard ID : AESS-042
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:01
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:30:01
 Average Efficiency : 0.3353846
 Average Efficiency Error : 9.2380978E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.2167	31-MAR-2008	2991.974	3298.698	15634.00	0.3295814	1.4155956E-02	46.08813
NP-237	164.5324	31-MAR-2008	4436.917	4902.899	13592.00	0.3442079	1.7461805E-02	61.68174
CM-244	160.0771	31-MAR-2008	5534.601	5883.825	12734.00	0.3353911	1.7030934E-02	50.88133

Instrument : CHAMBER 107
 Detector : 68569
 Standard ID : AESS-043
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:02
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:30:17
 Average Efficiency : 0.3256002
 Average Efficiency Error : 8.9718439E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.9198	31-MAR-2008	2990.269	3300.991	15368.00	0.3244395	1.3939322E-02	42.85122
NP-237	164.5400	31-MAR-2008	4432.889	4903.499	12759.00	0.3230795	1.6405271E-02	56.34174
CM-244	159.6254	31-MAR-2008	5535.604	5883.338	12490.00	0.3299078	1.6757458E-02	50.33632

Instrument : CHAMBER 108
 Detector : 64255
 Standard ID : AESS-044
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:02
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:30:41
 Average Efficiency : 0.3662836
 Average Efficiency Error : 1.0075038E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.9470	31-MAR-2008	2991.958	3302.062	17231.00	0.3637426	1.5598104E-02	42.40729
NP-237	164.2876	31-MAR-2008	4435.849	4905.919	14325.00	0.3633051	1.8417135E-02	62.09553
CM-244	159.3916	31-MAR-2008	5531.348	5885.673	14107.00	0.3731661	1.8920993E-02	45.57732

Instrument : CHAMBER 109
 Detector : 64256
 Standard ID : AESS-045
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:02
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:30:50
 Average Efficiency : 0.3393695
 Average Efficiency Error : 9.3446765E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.3460	31-MAR-2008	2988.061	3297.634	15999.00	0.3370560	1.4471273E-02	40.49365
NP-237	164.6439	31-MAR-2008	4434.172	4903.092	13425.00	0.3397485	1.7238637E-02	60.42028
CM-244	160.0604	31-MAR-2008	5532.138	5885.453	12995.00	0.3423204	1.7377445E-02	41.82066

Instrument : CHAMBER 110
 Detector : 67603
 Standard ID : AESS-046
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:02
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:30:59
 Average Efficiency : 0.3424160
 Average Efficiency Error : 9.4275000E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6531	31-MAR-2008	2988.164	3298.740	16170.00	0.3418527	1.4674585E-02	41.14909
NP-237	164.3834	31-MAR-2008	4433.226	4903.139	13498.00	0.3421373	1.7358486E-02	58.37173
CM-244	159.4253	31-MAR-2008	5533.314	5887.166	12988.00	0.3434927	1.7437112E-02	43.32254

Instrument : CHAMBER 111
 Detector : 30448
 Standard ID : AESS-047
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:02
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:31:09
 Average Efficiency : 0.3472187
 Average Efficiency Error : 9.5609529E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.8321	31-MAR-2008	2988.915	3300.861	15960.00	0.3371078	1.4474097E-02	56.16589
NP-237	164.4311	31-MAR-2008	4432.896	4902.901	13974.00	0.3540936	1.7956296E-02	62.60792
CM-244	159.1144	31-MAR-2008	5532.345	5885.373	13435.00	0.3560089	1.8063499E-02	51.92598

Instrument : CHAMBER 112
 Detector : 30449
 Standard ID : AESS-048
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 1-MAY-2007 12:15:02
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 1-MAY-2007 16:31:19
 Average Efficiency : 0.3165239
 Average Efficiency Error : 8.7259468E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.7088	31-MAR-2008	2989.074	3297.775	14898.00	0.3148724	1.3535765E-02	53.47691
NP-237	163.8173	31-MAR-2008	4435.650	4902.786	12458.00	0.3168674	1.6095707E-02	66.63918
CM-244	159.3427	31-MAR-2008	5534.509	5886.281	12038.00	0.3185390	1.6189398E-02	53.23841

Instrument : CHAMBER 113
 Detector : 45-111B4
 Standard ID : AESS-001
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:50:44
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:25:20
 Average Efficiency : 0.3573404
 Average Efficiency Error : 9.8348623E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	199.3914	31-MAR-2008	2988.992	3297.476	16528.00	0.3466749	1.4876221E-02	63.08971
NP-237	164.9840	31-MAR-2008	4435.012	4901.931	14476.00	0.3655731	1.8529501E-02	70.62317
CM-244	160.0970	31-MAR-2008	5534.147	5883.297	13835.00	0.3656695	1.8545942E-02	66.64334

Instrument : CHAMBER 114
 Detector : 45-111B5
 Standard ID : AESS-007
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:50:48
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:25:34
 Average Efficiency : 0.3807960
 Average Efficiency Error : 1.0449503E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.5400	31-MAR-2008	2990.453	3299.457	18832.00	0.3716674	1.5927097E-02	70.35949
NP-237	211.5600	31-MAR-2008	4435.522	4905.609	19545.00	0.3849386	1.9442882E-02	81.35064
CM-244	248.5200	31-MAR-2008	5533.776	5885.415	19811.00	0.3905313	1.9722844E-02	72.06837

Instrument : CHAMBER 115
 Detector : 30453
 Standard ID : AESS-002
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:50:53
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:25:49
 Average Efficiency : 0.3691660
 Average Efficiency Error : 1.0132399E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.4800	31-MAR-2008	2990.495	3302.310	18445.00	0.3641149	1.5608201E-02	51.97351
NP-237	211.5000	31-MAR-2008	4435.313	4906.354	18996.00	0.3742040	1.8906200E-02	71.35045
CM-244	248.4000	31-MAR-2008	5532.392	5886.729	18837.00	0.3715052	1.8771579E-02	56.82071

Instrument : CHAMBER 116
 Detector : 45-132FF2
 Standard ID : AESS-008
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:50:59
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:26:00
 Average Efficiency : 0.3788376
 Average Efficiency Error : 1.0396223E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.8400	31-MAR-2008	2990.843	3299.865	18751.00	0.3695638	1.5837939E-02	65.81653
NP-237	211.8600	31-MAR-2008	4432.742	4904.482	19696.00	0.3873635	1.9563857E-02	85.63203
CM-244	248.8800	31-MAR-2008	5535.619	5883.911	19528.00	0.3843768	1.9414827E-02	68.24043

Instrument : CHAMBER 117
 Detector : 45-132FF3
 Standard ID : AESS-003
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:03
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:26:09
 Average Efficiency : 0.3837527
 Average Efficiency Error : 1.0528286E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.3600	31-MAR-2008	2988.723	3299.174	19116.00	0.3775820	1.6177079E-02	79.83257
NP-237	211.3800	31-MAR-2008	4434.640	4906.282	19778.00	0.3898595	1.9689104E-02	93.20657
CM-244	248.2800	31-MAR-2008	5530.931	5883.416	19604.00	0.3867390	1.9533459E-02	75.05044

Instrument : CHAMBER 118
 Detector : 45-132FF4
 Standard ID : AESS-009
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:08
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:26:20
 Average Efficiency : 0.3838131
 Average Efficiency Error : 1.0533924E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6000	31-MAR-2008	2990.527	3299.387	18782.00	0.3705793	1.5881080E-02	64.57890
NP-237	211.6200	31-MAR-2008	4437.145	4903.646	19960.00	0.3930008	1.9845959E-02	81.57102
CM-244	248.5800	31-MAR-2008	5534.851	5883.228	20065.00	0.3954336	1.9967929E-02	67.43101

Instrument : CHAMBER 119
 Detector : 45-132FF5
 Standard ID : AESS-004
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:13
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:26:32
 Average Efficiency : 0.3858970
 Average Efficiency Error : 1.0586947E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.1800	31-MAR-2008	2990.213	3298.242	19166.00	0.3788805	1.6232109E-02	73.55545
NP-237	211.2000	31-MAR-2008	4437.335	4901.960	19682.00	0.3882978	1.9611184E-02	90.44051
CM-244	248.1000	31-MAR-2008	5535.634	5882.333	19951.00	0.3939665	1.9894935E-02	78.65366

Instrument : CHAMBER 120
 Detector : 45-142F1
 Standard ID : AESS-010
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:18
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:26:45
 Average Efficiency : 0.3790768
 Average Efficiency Error : 1.0402752E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.4800	31-MAR-2008	2990.806	3299.602	18747.00	0.3700910	1.5860582E-02	73.09756
NP-237	211.5000	31-MAR-2008	4434.474	4903.879	19513.00	0.3844176	1.9416885E-02	91.19077
CM-244	248.4600	31-MAR-2008	5530.971	5887.263	19647.00	0.3873256	1.9562639E-02	80.06832

Instrument : CHAMBER 121
 Detector : 45-142J4
 Standard ID : AESS-005
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:22
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:26:57
 Average Efficiency : 0.3806784
 Average Efficiency Error : 1.0445412E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2988.980	3297.999	18909.00	0.3729832	1.5982542E-02	78.94083
NP-237	211.6800	31-MAR-2008	4435.218	4906.269	19713.00	0.3880275	1.9597225E-02	86.64584
CM-244	248.6400	31-MAR-2008	5530.824	5883.592	19531.00	0.3848305	1.9437689E-02	74.97868

Instrument : CHAMBER 122
 Detector : 67605
 Standard ID : AESS-011
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:27
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:27:18
 Average Efficiency : 0.3778343
 Average Efficiency Error : 1.0368127E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2991.834	3298.069	18790.00	0.3706359	1.5883407E-02	60.27312
NP-237	211.6800	31-MAR-2008	4434.107	4904.292	19569.00	0.3851930	1.9455494E-02	75.34185
CM-244	248.6400	31-MAR-2008	5534.510	5882.848	19348.00	0.3812058	1.9256458E-02	59.38938

Instrument : CHAMBER 123
 Detector : 45-149BB4
 Standard ID : AESS-006
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:31
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:27:45
 Average Efficiency : 0.3746043
 Average Efficiency Error : 1.0279765E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.1800	31-MAR-2008	2990.288	3298.868	18728.00	0.3702220	1.5866429E-02	70.65164
NP-237	211.2000	31-MAR-2008	4434.431	4904.779	19102.00	0.3768552	1.9039026E-02	91.12573
CM-244	248.1000	31-MAR-2008	5533.704	5885.965	19179.00	0.3787030	1.9131731E-02	76.34010

Instrument : CHAMBER 124
 Detector : 45-142V2
 Standard ID : AESS-012
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:36
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:27:57
 Average Efficiency : 0.3746346
 Average Efficiency Error : 1.0283104E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.9600	31-MAR-2008	2992.164	3302.335	18477.00	0.3639649	1.5601351E-02	77.58029
NP-237	211.9200	31-MAR-2008	4435.990	4906.531	19532.00	0.3840293	1.9397084E-02	94.94254
CM-244	248.9400	31-MAR-2008	5534.727	5886.102	19393.00	0.3816462	1.9278232E-02	74.52500

Instrument : CHAMBER 125
 Detector : 45-142V3
 Standard ID : AESS-013
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:40
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:28:07
 Average Efficiency : 0.3810323
 Average Efficiency Error : 1.0455270E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	220.5600	31-MAR-2008	2989.652	3298.019	18926.00	0.3717952	1.5931427E-02	68.04302
NP-237	212.5200	31-MAR-2008	4437.200	4906.596	19849.00	0.3891601	1.9653087E-02	87.82215
CM-244	249.6600	31-MAR-2008	5533.941	5885.170	19716.00	0.3868933	1.9540036E-02	73.76020

Instrument : CHAMBER 126
 Detector : 68547
 Standard ID : AESS-019
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:45
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:28:17
 Average Efficiency : 0.3645449
 Average Efficiency Error : 1.0011270E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.5400	31-MAR-2008	2988.760	3297.917	17840.00	0.3520894	1.5100242E-02	55.63500
NP-237	211.5600	31-MAR-2008	4434.526	4904.831	18916.00	0.3725502	1.8823428E-02	80.59985
CM-244	248.5200	31-MAR-2008	5533.283	5885.079	19079.00	0.3761106	1.9001761E-02	57.80165

Instrument : CHAMBER 127
 Detector : 45-142W1
 Standard ID : AESS-014
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:50
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:28:27
 Average Efficiency : 0.3831280
 Average Efficiency Error : 1.0513183E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.9600	31-MAR-2008	2992.343	3300.642	18921.00	0.3727109	1.5970727E-02	75.00401
NP-237	211.9800	31-MAR-2008	4435.358	4905.438	19780.00	0.3887952	1.9635336E-02	91.12808
CM-244	249.0000	31-MAR-2008	5534.078	5886.215	19997.00	0.3934476	1.9868283E-02	77.61081

Instrument : CHAMBER 128
 Detector : 68548
 Standard ID : AESS-020
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:51:55
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:28:37
 Average Efficiency : 0.3762723
 Average Efficiency Error : 1.0328847E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.8400	31-MAR-2008	2991.921	3300.013	18463.00	0.3638876	1.5598212E-02	45.71079
NP-237	211.8000	31-MAR-2008	4435.230	4906.076	19725.00	0.3880436	1.9597920E-02	67.96240
CM-244	248.8200	31-MAR-2008	5530.896	5884.077	19497.00	0.3838874	1.9390389E-02	55.06854

Instrument : CHAMBER 129
 Detector : 45-142W3
 Standard ID : AESS-015
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:00
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:28:47
 Average Efficiency : 0.3811657
 Average Efficiency Error : 1.0458681E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.8400	31-MAR-2008	2988.236	3301.485	18928.00	0.3730523	1.5985271E-02	74.51136
NP-237	211.8600	31-MAR-2008	4435.888	4905.837	19641.00	0.3862817	1.9509764E-02	86.12099
CM-244	248.8800	31-MAR-2008	5534.302	5886.342	19721.00	0.3882043	1.9606199E-02	74.30077

Instrument : CHAMBER 130
 Detector : 67043
 Standard ID : AESS-021
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:04
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:28:59
 Average Efficiency : 0.3634502
 Average Efficiency Error : 9.9802818E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.5400	31-MAR-2008	2990.765	3298.052	17876.00	0.3527999	1.5130249E-02	73.06822
NP-237	211.5600	31-MAR-2008	4434.655	4903.610	18982.00	0.3738504	1.8888446E-02	100.0064
CM-244	248.5200	31-MAR-2008	5530.909	5882.376	18744.00	0.3695067	1.8671544E-02	71.85886

Instrument : CHAMBER 131
 Detector : 58880
 Standard ID : AESS-016
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:09
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:29:09
 Average Efficiency : 0.3609704
 Average Efficiency Error : 9.9147856E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2988.037	3300.823	17640.00	0.3479520	1.4925377E-02	69.52268
NP-237	211.6800	31-MAR-2008	4434.069	4903.767	18807.00	0.3701938	1.8705493E-02	70.24576
CM-244	248.6400	31-MAR-2008	5532.094	5884.153	18896.00	0.3723234	1.8812293E-02	64.25567

Instrument : CHAMBER 132
 Detector : 61574
 Standard ID : AESS-022
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:15
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:29:19
 Average Efficiency : 0.3559236
 Average Efficiency Error : 9.7880336E-03
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2989.126	3299.871	16985.00	0.3350320	1.4379711E-02	63.46343
NP-237	211.6800	31-MAR-2008	4436.379	4903.174	18766.00	0.3693868	1.8665140E-02	78.00854
CM-244	248.6400	31-MAR-2008	5533.638	5886.427	19223.00	0.3787665	1.9134469E-02	65.81348

Instrument : CHAMBER 133
 Detector : 45-145K3
 Standard ID : AESS-017
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:21
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:29:34
 Average Efficiency : 0.3787161
 Average Efficiency Error : 1.0392137E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.7200	31-MAR-2008	2990.193	3298.076	18815.00	0.3710277	1.5899891E-02	74.49701
NP-237	211.7400	31-MAR-2008	4434.432	4902.208	19550.00	0.3847099	1.9431280E-02	89.49838
CM-244	248.7000	31-MAR-2008	5532.275	5887.226	19503.00	0.3841909	1.9405656E-02	74.41998

Instrument : CHAMBER 134
 Detector : 67604
 Standard ID : AESS-023
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:26
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:29:46
 Average Efficiency : 0.3760293
 Average Efficiency Error : 1.0318225E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.6600	31-MAR-2008	2992.394	3300.254	18830.00	0.3714249	1.5916729E-02	51.74292
NP-237	211.6800	31-MAR-2008	4433.640	4903.294	19357.00	0.3810199	1.9246828E-02	73.20016
CM-244	248.6400	31-MAR-2008	5531.474	5883.407	19171.00	0.3777419	1.9083235E-02	54.98707

Instrument : CHAMBER 135
 Detector : 45-145K5
 Standard ID : AESS-018
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:31
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:29:56
 Average Efficiency : 0.3777301
 Average Efficiency Error : 1.0367631E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.7800	31-MAR-2008	2990.708	3302.125	18577.00	0.3662344	1.5697388E-02	73.91824
NP-237	211.8000	31-MAR-2008	4434.590	4901.444	19628.00	0.3861212	1.9501803E-02	88.98281
CM-244	248.7600	31-MAR-2008	5530.866	5885.750	19657.00	0.3871311	1.9552629E-02	72.33717

Instrument : CHAMBER 136
 Detector : 68549
 Standard ID : AESS-024
 Standard Reference Date : 7-FEB-2003 00:00:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:37
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:30:13
 Average Efficiency : 0.3693933
 Average Efficiency Error : 1.0141137E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	219.4200	31-MAR-2008	2990.370	3300.889	18181.00	0.3590156	1.5392887E-02	55.12902
NP-237	211.4400	31-MAR-2008	4435.892	4902.003	19156.00	0.3774064	1.9066416E-02	74.55602
CM-244	248.4000	31-MAR-2008	5530.678	5885.264	19130.00	0.3772983	1.9061241E-02	55.33080

Instrument : CHAMBER 137
 Detector : 64288
 Standard ID : AESS-025
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:42
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:30:24
 Average Efficiency : 0.4006481
 Average Efficiency Error : 1.1009206E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.3542	31-MAR-2008	2988.228	3300.698	18466.00	0.3893555	1.6678853E-02	51.53991
NP-237	164.4668	31-MAR-2008	4436.898	4904.341	16133.00	0.4087197	2.0687778E-02	72.27115
CM-244	159.7532	31-MAR-2008	5532.844	5883.312	15480.00	0.4100190	2.0764187E-02	55.37025

Instrument : CHAMBER 138
 Detector : 65877
 Standard ID : AESS-031
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:47
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:30:37
 Average Efficiency : 0.3949724
 Average Efficiency Error : 1.0854050E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.8931	31-MAR-2008	2992.442	3299.374	18316.00	0.3867601	1.6569639E-02	50.42603
NP-237	163.8397	31-MAR-2008	4433.887	4906.017	15805.00	0.4019430	2.0349875E-02	73.23862
CM-244	159.1148	31-MAR-2008	5533.897	5884.061	15122.00	0.4003518	2.0281198E-02	52.53690

Instrument : CHAMBER 139
 Detector : 65878
 Standard ID : AESS-026
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:52:53
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:30:50
 Average Efficiency : 0.3978948
 Average Efficiency Error : 1.1628543E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.9469	31-MAR-2008	2990.833	3302.502	18305.00	0.3848109	1.9449715E-02	47.81542
NP-237	164.5830	31-MAR-2008	4436.360	4903.087	16047.00	0.4062540	2.0564307E-02	72.17090
CM-244	160.1516	31-MAR-2008	5530.841	5886.406	15294.00	0.4041033	2.0467712E-02	55.37342

Instrument : CHAMBER 140
 Detector : 65879
 Standard ID : AESS-032
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:00
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:31:01
 Average Efficiency : 0.4003699
 Average Efficiency Error : 1.0999669E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6080	31-MAR-2008	2988.037	3299.398	18615.00	0.3936410	1.6860398E-02	49.05742
NP-237	164.1564	31-MAR-2008	4432.624	4904.580	15993.00	0.4059390	2.0549202E-02	71.58067
CM-244	159.1696	31-MAR-2008	5532.539	5882.895	15281.00	0.4047760	2.0502051E-02	56.17613

Instrument : CHAMBER 141
 Detector : 65880
 Standard ID : AESS-027
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:06
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:31:11
 Average Efficiency : 0.3986867
 Average Efficiency Error : 1.1652756E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.5143	31-MAR-2008	2991.709	3298.090	18241.00	0.3843011	1.9424677E-02	48.66161
NP-237	164.4123	31-MAR-2008	4435.781	4901.866	16219.00	0.4110350	2.0803632E-02	69.09648
CM-244	159.7881	31-MAR-2008	5533.988	5883.580	15205.00	0.4026782	2.0397034E-02	55.20792

Instrument : CHAMBER 142
 Detector : 65881
 Standard ID : AESS-033
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:10
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:31:25
 Average Efficiency : 0.3878565
 Average Efficiency Error : 1.0664309E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.4935	31-MAR-2008	2990.691	3297.668	17723.00	0.3749955	1.6073609E-02	49.06413
NP-237	163.8186	31-MAR-2008	4437.468	4904.373	15733.00	0.4001634	2.0260919E-02	73.90854
CM-244	158.8401	31-MAR-2008	5532.203	5882.320	14912.00	0.3958198	2.0054748E-02	58.49088

Instrument : CHAMBER 143
 Detector : 65882
 Standard ID : AESS-028
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:15
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:31:42
 Average Efficiency : 0.3930591
 Average Efficiency Error : 1.1487952E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.5272	31-MAR-2008	2990.815	3302.216	18153.00	0.3824224	1.9330723E-02	50.64151
NP-237	164.4778	31-MAR-2008	4435.119	4901.463	15743.00	0.3988129	2.0192381E-02	74.52338
CM-244	160.0205	31-MAR-2008	5534.069	5883.991	15086.00	0.3989211	2.0208802E-02	56.48025

Instrument : CHAMBER 144
 Detector : 65883
 Standard ID : AESS-034
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:20
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:31:59
 Average Efficiency : 0.3687454
 Average Efficiency Error : 1.0143767E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.4044	31-MAR-2008	2991.877	3299.831	17236.00	0.3648558	1.5645768E-02	118.2072
NP-237	163.8549	31-MAR-2008	4436.923	4904.318	14993.00	0.3812572	1.9315477E-02	141.1177
CM-244	158.9554	31-MAR-2008	5532.396	5882.453	13676.00	0.3627698	1.8401882E-02	108.0810

Instrument : CHAMBER 145
 Detector : 65884
 Standard ID : AESS-029
 Standard Reference Date : 5-DEC-2006 10:35:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:26
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:32:11
 Average Efficiency : 0.3969250
 Average Efficiency Error : 1.1599755E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6364	31-MAR-2008	2989.067	3301.699	18309.00	0.3874472	1.9582918E-02	50.78718
NP-237	163.9949	31-MAR-2008	4433.853	4901.974	15732.00	0.3997078	2.0237869E-02	70.82458
CM-244	159.3367	31-MAR-2008	5531.612	5882.822	15231.00	0.4044457	2.0486210E-02	51.41616

Instrument : CHAMBER 146
 Detector : 65885
 Standard ID : AESS-035
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:31
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:32:22
 Average Efficiency : 0.3915920
 Average Efficiency Error : 1.0763422E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.8607	31-MAR-2008	2988.658	3299.338	18089.00	0.3801083	1.6287696E-02	56.26291
NP-237	164.8691	31-MAR-2008	4434.044	4903.980	15846.00	0.4004694	2.0274619E-02	77.86983
CM-244	159.9841	31-MAR-2008	5534.125	5882.546	15197.00	0.4005202	2.0287896E-02	60.95787

Instrument : CHAMBER 147
 Detector : 65886
 Standard ID : AESS-030
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:36
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:32:33
 Average Efficiency : 0.3969695
 Average Efficiency Error : 1.1604717E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.0821	31-MAR-2008	2990.562	3298.217	17985.00	0.3813334	1.9277586E-02	50.42666
NP-237	162.8058	31-MAR-2008	4433.504	4905.122	15764.00	0.4034458	2.0426614E-02	72.90853
CM-244	158.2342	31-MAR-2008	5531.605	5886.039	15323.00	0.4083266	2.0681111E-02	55.39751

Instrument : CHAMBER 148
 Detector : 65887
 Standard ID : AESS-036
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:41
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:32:44
 Average Efficiency : 0.3907034
 Average Efficiency Error : 1.0741754E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.7468	31-MAR-2008	2991.880	3299.660	17846.00	0.3771144	1.6162721E-02	53.51785
NP-237	164.2379	31-MAR-2008	4434.783	4906.055	15923.00	0.4039620	2.0450225E-02	70.05119
CM-244	159.1870	31-MAR-2008	5531.840	5885.763	15065.00	0.3990039	2.0213397E-02	58.96797

Instrument : CHAMBER 149
 Detector : 65888
 Standard ID : AESS-037
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:46
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:32:54
 Average Efficiency : 0.3937573
 Average Efficiency Error : 1.0822662E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.2101	31-MAR-2008	2989.452	3300.834	18131.00	0.3822413	1.6378526E-02	52.28272
NP-237	164.5849	31-MAR-2008	4434.136	4906.124	15816.00	0.4004013	2.0271646E-02	83.09234
CM-244	159.2923	31-MAR-2008	5534.127	5884.507	15301.00	0.4050192	2.0513993E-02	56.30298

Instrument : CHAMBER 150
 Detector : 65889
 Standard ID : AESS-043
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:51
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:33:04
 Average Efficiency : 0.3828110
 Average Efficiency Error : 1.0525211E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.8850	31-MAR-2008	2990.041	3298.297	17670.00	0.3731344	1.5994571E-02	49.93728
NP-237	164.5400	31-MAR-2008	4436.590	4904.513	15250.00	0.3861776	1.9560473E-02	74.95210
CM-244	159.6254	31-MAR-2008	5533.330	5883.814	14932.00	0.3944009	1.9982507E-02	55.80065

Instrument : CHAMBER 151
 Detector : 46-089B1
 Standard ID : AESS-038
 Standard Reference Date : 15-JAN-2007 09:42:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:53:57
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:33:15
 Average Efficiency : 0.3994495
 Average Efficiency Error : 1.0974213E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.1047	31-MAR-2008	2988.129	3299.666	18671.00	0.3957631	1.6950540E-02	54.87198
NP-237	163.8862	31-MAR-2008	4437.180	4902.872	15763.00	0.4007609	2.0290691E-02	74.93589
CM-244	158.6339	31-MAR-2008	5534.178	5883.185	15190.00	0.4034785	2.0437822E-02	59.44920

Instrument : CHAMBER 152
 Detector : 46-089B2
 Standard ID : AESS-044
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:54:02
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:33:28
 Average Efficiency : 0.3963836
 Average Efficiency Error : 1.0891216E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.9081	31-MAR-2008	2989.093	3299.484	18492.00	0.3904470	1.6725222E-02	56.01357
NP-237	164.2876	31-MAR-2008	4434.083	4904.388	15862.00	0.4022927	2.0366674E-02	72.57979
CM-244	159.3916	31-MAR-2008	5535.386	5884.449	15092.00	0.3992376	2.0224722E-02	61.80677

Instrument : CHAMBER 153
 Detector : 46-089B3
 Standard ID : AESS-039
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:54:06
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:33:38
 Average Efficiency : 0.4074969
 Average Efficiency Error : 1.1194343E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.0532	31-MAR-2008	2991.276	3298.031	18758.00	0.3977816	1.7035849E-02	48.06646
NP-237	164.0872	31-MAR-2008	4436.455	4902.559	16362.00	0.4154803	2.1026414E-02	72.54867
CM-244	159.1280	31-MAR-2008	5534.458	5883.808	15635.00	0.4142815	2.0977421E-02	59.34158

Instrument : CHAMBER 154
 Detector : 46-089B4
 Standard ID : AESS-045
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:54:10
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:33:48
 Average Efficiency : 0.4018725
 Average Efficiency Error : 1.1039675E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.3272	31-MAR-2008	2987.771	3298.953	18821.00	0.3965538	1.6982440E-02	54.90984
NP-237	164.6439	31-MAR-2008	4435.185	4905.618	16199.00	0.4099505	2.0749053E-02	79.04097
CM-244	160.0604	31-MAR-2008	5530.974	5884.987	15251.00	0.4017392	2.0348739E-02	56.44351

Instrument : CHAMBER 155
 Detector : 67044
 Standard ID : AESS-040
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:54:13
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:33:58
 Average Efficiency : 0.4032163
 Average Efficiency Error : 1.1076640E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.7155	31-MAR-2008	2987.737	3300.178	18775.00	0.3968084	1.6993944E-02	57.85271
NP-237	164.4573	31-MAR-2008	4436.717	4904.493	16213.00	0.4107703	2.0790331E-02	78.38139
CM-244	159.5251	31-MAR-2008	5533.610	5884.501	15330.00	0.4052009	2.0522691E-02	58.91536

Instrument : CHAMBER 156
 Detector : 67045
 Standard ID : AESS-046
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:54:17
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:34:10
 Average Efficiency : 0.3890555
 Average Efficiency Error : 1.0693712E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6139	31-MAR-2008	2990.766	3302.396	17998.00	0.3805822	1.6309245E-02	49.70838
NP-237	164.3834	31-MAR-2008	4432.564	4905.870	15533.00	0.3937189	1.9937808E-02	72.98802
CM-244	159.4253	31-MAR-2008	5530.687	5882.456	15020.00	0.3972045	2.0123040E-02	53.16614

Instrument : CHAMBER 157
 Detector : 67046
 Standard ID : AESS-041
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:54:21
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:34:21
 Average Efficiency : 0.3956289
 Average Efficiency Error : 1.0872197E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.1027	31-MAR-2008	2988.116	3299.980	18266.00	0.3872510	1.6591344E-02	48.99515
NP-237	163.9214	31-MAR-2008	4435.361	4903.066	15909.00	0.4043857	2.0471891E-02	67.97958
CM-244	159.2273	31-MAR-2008	5532.438	5883.640	15088.00	0.3995374	2.0239988E-02	58.53043

Instrument : CHAMBER 158
 Detector : 67047
 Standard ID : AESS-047
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:54:24
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:34:33
 Average Efficiency : 0.3994493
 Average Efficiency Error : 1.0974796E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.7914	31-MAR-2008	2991.146	3298.286	18567.00	0.3922617	1.6801959E-02	50.76445
NP-237	164.4311	31-MAR-2008	4434.237	4901.971	15925.00	0.4035378	2.0428717E-02	74.30759
CM-244	159.1144	31-MAR-2008	5531.204	5887.669	15324.00	0.4060751	2.0567087E-02	59.48643

Instrument : CHAMBER 159
 Detector : 67048
 Standard ID : AESS-042
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:54:28
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:34:46
 Average Efficiency : 0.3799458
 Average Efficiency Error : 1.0445492E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	198.1939	31-MAR-2008	2989.119	3301.528	17727.00	0.3737547	1.6020367E-02	66.94643
NP-237	164.5324	31-MAR-2008	4432.663	4905.556	15115.00	0.3827769	1.9390432E-02	84.65090
CM-244	160.0771	31-MAR-2008	5534.506	5885.292	14665.00	0.3863052	1.9576907E-02	65.48943

Instrument : CHAMBER 160
 Detector : 67049
 Standard ID : AESS-048
 Standard Reference Date : 8-JAN-2007 09:29:00
 Calibration Analysis Date/Time : 2-MAY-2007 07:54:31
 Calibration Count Time : 240.0000
 Efficiency Calibration Date/Time : 2-MAY-2007 12:34:56
 Average Efficiency : 0.3695458
 Average Efficiency Error : 1.0163141E-02
 Confidence : 95.00000

Cal. Istps	DPM	Exp. Date	Start Engy	End Engy	Counts	EFF.	EFF Err	Resolution
GD-148	197.6701	31-MAR-2008	2989.468	3300.794	17421.00	0.3682612	1.5789175E-02	48.73038
NP-237	163.8173	31-MAR-2008	4434.617	4901.854	14648.00	0.3725208	1.8878717E-02	65.40633
CM-244	159.3427	31-MAR-2008	5530.746	5887.177	13923.00	0.3684308	1.8684316E-02	52.47029

QUALITY CONTROL CHARTS

Data used for Alpha SpecThorium in Liquids 10-MAY-2007

Thorium-228 BLANK: Limits LCL = -1.7 UCL = 2

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
619119	1201300468	30-MAR-2007 14:45	DUSE	0	-0.14	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
619119	1201300468	02-APR-2007 16:07	DONE	0	-0.16	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
621752	1201306765	05-APR-2007 14:23	DONE	0	-0.23	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
619987	1201302577	05-APR-2007 14:24	DONE	0	0.04	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
621051	1201305089	05-APR-2007 18:42	DUSE	0	-0.19	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
621048	1201305079	05-APR-2007 19:53	DONE	0	-0.12	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
622582	1201308519	06-APR-2007 15:11	DUSE	0	-0.08	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
622582	1201308519	10-APR-2007 14:58	DUSE	0	0.12	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
624865	1201313616	13-APR-2007 10:15	DUSE	0	-0.08	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
624865	1201313616	14-APR-2007 20:49	DONE	0	-0.11	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
624279	1201312230	16-APR-2007 13:08	DONE	0	-0.23	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
624636	1201313095	16-APR-2007 16:19	DONE	0	-1	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
625746	1201315865	17-APR-2007 13:28	DUSE	4	5.8	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
624798	1201313472	17-APR-2007 17:35	DONE	0	-0.25	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
625746	1201315865	18-APR-2007 08:42	DUSE	0	0.32	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
625746	1201315865	18-APR-2007 13:40	DONE	0	-0.19	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
625863	1201316167	19-APR-2007 20:44	DONE	0	-0.23	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
626522	1201317685	20-APR-2007 14:04	DONE	0	-0.29	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
625866	1201316178	20-APR-2007 14:59	DUSE	1	1.1	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
626514	1201317663	20-APR-2007 14:59	DONE	0	-0.65	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
625870	1201316192	21-APR-2007 16:22	DUSE	0	-0.14	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
624282	1201312240	21-APR-2007 16:32	DUSE	0	0.08	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
626934	1201318608	24-APR-2007 15:45	DONE	0	-0.23	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
625870	1201316192	24-APR-2007 15:46	DONE	0	-0.16	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
625866	1201316178	24-APR-2007 15:46	DONE	0	-0.19	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
627306	1201319576	25-APR-2007 09:08	DONE	0	-0.23	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
628076	1201321439	26-APR-2007 01:36	DUSE	0	-0.19	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
628978	1201323521	28-APR-2007 21:22	DONE	0	-0.19	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
628967	1201323485	30-APR-2007 10:28	DONE	0	-0.23	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
627793	1201320820	01-MAY-2007 18:10	DUSE	0	-0.16	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
628857	1201323303	03-MAY-2007 08:48	DONE	0	-0.14	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
628506	1201322488	03-MAY-2007 10:10	DONE	0	-0.32	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
628492	1201322439	03-MAY-2007 13:30	DUSE	0	-0.22	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
627776	1201320746	03-MAY-2007 13:30	DUSE	0	0.09	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
631446	1201329370	04-MAY-2007 17:48	DONE	0	-0.25	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
631452	1201329389	05-MAY-2007 17:30	DONE	0	0.02	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
631795	1201330291	08-MAY-2007 15:20	DUSE	0	-0.23	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
632131	1201331138	08-MAY-2007 23:36	DONE	0	-0.52	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61
631910	1201330604	09-MAY-2007 16:33	DUSE	0	-0.23	pCi/L	0.14	-1.7	-1.1	1.37	1.98	0.61

Thorium-228 DUP: Limits LCL = 0 UCL = 20

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
619676	1201301836	26-MAR-2007 19:49	DONE	84	-0.16	percent	138	0	-540	821	20.0	341
619985	1201302571	28-MAR-2007 10:19	DONE	33	-0.31	percent	138	0	-540	821	20.0	341
620541	1201303979	28-MAR-2007 10:20	DONE	115	-0.07	percent	138	0	-540	821	20.0	341
619987	1201302578	29-MAR-2007 09:02	DUSE	17	-0.36	percent	138	0	-540	821	20.0	341

619119	1201300469	30-MAR-2007 14:45	DUSE	63	-0.22	percent	138	0	-540	821	20.0	341
619119	1201300469	02-APR-2007 16:08	DONE	66	-0.21	percent	138	0	-540	821	20.0	341
619987	1201302578	05-APR-2007 14:22	DONE	19	-0.35	percent	138	0	-540	821	20.0	341
621752	1201306766	05-APR-2007 14:23	DONE	983	2.5	percent	138	0	-540	821	20.0	341
621051	1201305090	05-APR-2007 18:42	DUSE	20	-0.35	percent	138	0	-540	821	20.0	341
621048	1201305080	05-APR-2007 19:53	DONE	195	0.17	percent	138	0	-540	821	20.0	341
621051	1201305090	09-APR-2007 14:40	DUSE	47	-0.27	percent	138	0	-540	821	20.0	341
624279	1201312231	16-APR-2007 13:08	DONE	19	-0.35	percent	138	0	-540	821	20.0	341
624636	1201313096	16-APR-2007 16:20	DUSE	87	-0.15	percent	138	0	-540	821	20.0	341
625746	1201315866	17-APR-2007 13:28	DONE	169	0.09	percent	138	0	-540	821	20.0	341
624798	1201313473	17-APR-2007 17:35	DONE	20	-0.35	percent	138	0	-540	821	20.0	341
625863	1201316168	19-APR-2007 20:44	DONE	82	-0.17	percent	138	0	-540	821	20.0	341
626522	1201317686	20-APR-2007 14:04	DONE	66	-0.21	percent	138	0	-540	821	20.0	341
625866	1201316179	20-APR-2007 14:59	DUSE	27	-0.33	percent	138	0	-540	821	20.0	341
626514	1201317664	20-APR-2007 14:59	DONE	11	-0.37	percent	138	0	-540	821	20.0	341
625870	1201316193	21-APR-2007 16:22	DUSE	75	-0.19	percent	138	0	-540	821	20.0	341
624282	1201312241	21-APR-2007 16:32	DUSE	74	-0.19	percent	138	0	-540	821	20.0	341
624636	1201313096	23-APR-2007 19:06	DONE	30	-0.32	percent	138	0	-540	821	20.0	341
626934	1201318609	24-APR-2007 15:45	DONE	5	-0.39	percent	138	0	-540	821	20.0	341
625870	1201316193	24-APR-2007 15:46	DONE	1953	5.3	percent	138	0	-540	821	20.0	341
625866	1201316179	24-APR-2007 15:46	DONE	39	-0.29	percent	138	0	-540	821	20.0	341
627306	1201319577	25-APR-2007 09:08	DONE	61	-0.23	percent	138	0	-540	821	20.0	341
628076	1201321440	26-APR-2007 01:36	DUSE	3	-0.4	percent	138	0	-540	821	20.0	341
628978	1201323522	28-APR-2007 21:22	DONE	23	-0.34	percent	138	0	-540	821	20.0	341
628967	1201323486	30-APR-2007 10:28	DONE	16	-0.36	percent	138	0	-540	821	20.0	341
627793	1201320821	01-MAY-2007 18:10	DUSE	38	-0.3	percent	138	0	-540	821	20.0	341
628857	1201323304	03-MAY-2007 08:48	DONE	144	0.02	percent	138	0	-540	821	20.0	341
628506	1201322489	03-MAY-2007 10:10	DONE	430	0.86	percent	138	0	-540	821	20.0	341
628492	1201322440	03-MAY-2007 13:30	DUSE	4	-0.39	percent	138	0	-540	821	20.0	341
627776	1201320747	03-MAY-2007 13:30	DUSE	48	-0.26	percent	138	0	-540	821	20.0	341
631446	1201329371	04-MAY-2007 17:48	DONE	15	-0.36	percent	138	0	-540	821	20.0	341
631452	1201329390	05-MAY-2007 17:30	DONE	185	0.14	percent	138	0	-540	821	20.0	341
631795	1201330292	08-MAY-2007 15:20	DUSE	42	-0.28	percent	138	0	-540	821	20.0	341
632131	1201331139	08-MAY-2007 23:36	DONE	29	-0.32	percent	138	0	-540	821	20.0	341
631910	1201330605	09-MAY-2007 16:33	DUSE	53	-0.25	percent	138	0	-540	821	20.0	341

Thorium-228 RER: Limits LCL = 0 UCL = 3

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
617071	1201295507	26-MAR-2007 19:08	DONE	0.3	-0.54	num	0.59	0	-0.479	1.65	3.00	0.53
619676	1201301836	26-MAR-2007 19:49	DONE	0.2	-0.73	num	0.59	0	-0.479	1.65	3.00	0.53
619985	1201302571	28-MAR-2007 10:19	DONE	0.52	-0.12	num	0.59	0	-0.479	1.65	3.00	0.53
620541	1201303979	28-MAR-2007 10:20	DONE	0.29	-0.56	num	0.59	0	-0.479	1.65	3.00	0.53
619987	1201302578	29-MAR-2007 09:02	DUSE	0.25	-0.63	num	0.59	0	-0.479	1.65	3.00	0.53
619119	1201300469	30-MAR-2007 14:45	DUSE	0.33	-0.49	num	0.59	0	-0.479	1.65	3.00	0.53
619119	1201300469	02-APR-2007 16:08	DONE	0.3	-0.55	num	0.59	0	-0.479	1.65	3.00	0.53
619987	1201302578	05-APR-2007 14:22	DONE	0.37	-0.41	num	0.59	0	-0.479	1.65	3.00	0.53
621752	1201306766	05-APR-2007 14:23	DONE	2.06	2.8	num	0.59	0	-0.479	1.65	3.00	0.53
621051	1201305090	05-APR-2007 18:42	DUSE	0.19	-0.74	num	0.59	0	-0.479	1.65	3.00	0.53
621048	1201305080	05-APR-2007 19:53	DONE	0.56	-0.05	num	0.59	0	-0.479	1.65	3.00	0.53
621051	1201305090	09-APR-2007 14:40	DUSE	0.15	-0.82	num	0.59	0	-0.479	1.65	3.00	0.53

624279	1201312231	16-APR-2007 13:08	DONE	0.34	-0.46	num	0.59	0	-0.479	1.65	3.00	0.53
624636	1201313096	16-APR-2007 16:20	DUSE	1.03	0.83	num	0.59	0	-0.479	1.65	3.00	0.53
625746	1201315866	17-APR-2007 13:28	DONE	0.87	0.52	num	0.59	0	-0.479	1.65	3.00	0.53
624798	1201313473	17-APR-2007 17:35	DONE	0.2	-0.73	num	0.59	0	-0.479	1.65	3.00	0.53
625863	1201316168	19-APR-2007 20:44	DONE	1.22	1.2	num	0.59	0	-0.479	1.65	3.00	0.53
626522	1201317686	20-APR-2007 14:04	DONE	0.99	0.75	num	0.59	0	-0.479	1.65	3.00	0.53
625866	1201316179	20-APR-2007 14:59	DUSE	0.2	-0.74	num	0.59	0	-0.479	1.65	3.00	0.53
626514	1201317664	20-APR-2007 14:59	DONE	0.81	0.42	num	0.59	0	-0.479	1.65	3.00	0.53
625870	1201316193	21-APR-2007 16:22	DUSE	0.5	-0.16	num	0.59	0	-0.479	1.65	3.00	0.53
624282	1201312241	21-APR-2007 16:32	DUSE	0.97	0.71	num	0.59	0	-0.479	1.65	3.00	0.53
626934	1201318609	24-APR-2007 15:45	DONE	0.06	-0.1	num	0.59	0	-0.479	1.65	3.00	0.53
625870	1201316193	24-APR-2007 15:46	DONE	1.2	1.1	num	0.59	0	-0.479	1.65	3.00	0.53
625866	1201316179	24-APR-2007 15:46	DONE	0.46	-0.24	num	0.59	0	-0.479	1.65	3.00	0.53
627306	1201319577	25-APR-2007 09:08	DONE	0.68	0.17	num	0.59	0	-0.479	1.65	3.00	0.53
628076	1201321440	26-APR-2007 01:36	DUSE	0.04	-1	num	0.59	0	-0.479	1.65	3.00	0.53
628978	1201323522	28-APR-2007 21:22	DONE	0.37	-0.4	num	0.59	0	-0.479	1.65	3.00	0.53
628967	1201323486	30-APR-2007 10:28	DONE	0.25	-0.63	num	0.59	0	-0.479	1.65	3.00	0.53
627793	1201320821	01-MAY-2007 18:10	DUSE	0.81	0.41	num	0.59	0	-0.479	1.65	3.00	0.53
628857	1201323304	03-MAY-2007 08:48	DONE	1.43	1.6	num	0.59	0	-0.479	1.65	3.00	0.53
628506	1201322489	03-MAY-2007 10:10	DONE	0.15	-0.83	num	0.59	0	-0.479	1.65	3.00	0.53
628492	1201322440	03-MAY-2007 13:30	DUSE	0.09	-0.93	num	0.59	0	-0.479	1.65	3.00	0.53
627776	1201320747	03-MAY-2007 13:30	DUSE	2.49	3.6	num	0.59	0	-0.479	1.65	3.00	0.53
631446	1201329371	04-MAY-2007 17:48	DONE	0.23	-0.68	num	0.59	0	-0.479	1.65	3.00	0.53
631452	1201329390	05-MAY-2007 17:30	DONE	0.49	-0.18	num	0.59	0	-0.479	1.65	3.00	0.53
631795	1201330292	08-MAY-2007 15:20	DUSE	0.79	0.37	num	0.59	0	-0.479	1.65	3.00	0.53
632131	1201331139	08-MAY-2007 23:36	DONE	0.23	-0.68	num	0.59	0	-0.479	1.65	3.00	0.53
631910	1201330605	09-MAY-2007 16:33	DUSE	0.53	-0.11	num	0.59	0	-0.479	1.65	3.00	0.53

Thorium-230 BLANK: Limits LCL = -2.7 UCL = 3.3

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
619119	1201300468	30-MAR-2007 14:45	DUSE	0	-0.28	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
619119	1201300468	02-APR-2007 16:07	DONE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
621752	1201306765	05-APR-2007 14:23	DONE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
619987	1201302577	05-APR-2007 14:24	DONE	1	0.39	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
621051	1201305089	05-APR-2007 18:42	DUSE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
621048	1201305079	05-APR-2007 19:53	DONE	0	-0.25	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
622582	1201308519	06-APR-2007 15:11	DUSE	0	-0.28	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
622582	1201308519	10-APR-2007 14:58	DUSE	0	-0.28	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
624865	1201313616	13-APR-2007 10:15	DUSE	0	-0.24	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
624865	1201313616	14-APR-2007 20:49	DONE	0	-0.27	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
624279	1201312230	16-APR-2007 13:08	DONE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
624636	1201313095	16-APR-2007 16:19	DONE	0	-0.49	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
625746	1201315865	17-APR-2007 13:28	DUSE	6	5.9	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
624798	1201313472	17-APR-2007 17:35	DONE	0	-0.3	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
625746	1201315865	18-APR-2007 08:42	DUSE	0	-0.08	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
625746	1201315865	18-APR-2007 13:40	DONE	0	-0.14	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
625863	1201316167	19-APR-2007 20:44	DUSE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
626522	1201317685	20-APR-2007 14:04	DONE	0	-0.12	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
625866	1201316178	20-APR-2007 14:59	DUSE	1	0.54	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
626514	1201317663	20-APR-2007 14:59	DUSE	0	-0.28	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99

625870	1201316192	21-APR-2007 16:22	DUSE	0	-0.01	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
624282	1201312240	21-APR-2007 16:32	DUSE	0	0.07	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
626934	1201318608	24-APR-2007 15:45	DONE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
625870	1201316192	24-APR-2007 15:46	DONE	0	0.04	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
625866	1201316178	24-APR-2007 15:46	DONE	1	0.42	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
627306	1201319576	25-APR-2007 09:08	DONE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
628076	1201321439	26-APR-2007 01:36	DUSE	0	0.12	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
628978	1201323521	28-APR-2007 21:22	DONE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
628967	1201323485	30-APR-2007 10:28	DONE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
627793	1201320820	01-MAY-2007 18:10	DUSE	0	-0.28	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
628857	1201323303	03-MAY-2007 08:48	DONE	0	-0.05	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
628506	1201322488	03-MAY-2007 10:10	DONE	0	-0.23	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
628492	1201322439	03-MAY-2007 13:30	DUSE	0	-0.04	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
627776	1201320746	03-MAY-2007 13:30	DUSE	0	-0.02	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
631446	1201329370	04-MAY-2007 17:48	DONE	0	-0.28	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
631452	1201329389	05-MAY-2007 17:30	DONE	0	-0.18	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
631795	1201330291	08-MAY-2007 15:20	DUSE	0	-0.24	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
632131	1201331138	08-MAY-2007 23:36	DONE	0	-0.29	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99
631910	1201330604	09-MAY-2007 16:33	DUSE	0	-0.28	pCi/L	0.29	-2.7	-1.7	2.27	3.26	0.99

Thorium-230 DUP: Limits LCL = 0 UCL = 20

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
619676	1201301836	26-MAR-2007 19:49	DONE	104	-0.16	percent	576	0	-5300	6420	20.0	2920
619985	1201302571	28-MAR-2007 10:19	DONE	100	-0.16	percent	576	0	-5300	6420	20.0	2920
620541	1201303979	28-MAR-2007 10:20	DUSE	243	-0.11	percent	576	0	-5300	6420	20.0	2920
619987	1201302578	29-MAR-2007 09:02	DUSE	109	-0.16	percent	576	0	-5300	6420	20.0	2920
619119	1201300469	30-MAR-2007 14:45	DUSE	167	-0.14	percent	576	0	-5300	6420	20.0	2920
619119	1201300469	02-APR-2007 16:08	DONE	101	-0.16	percent	576	0	-5300	6420	20.0	2920
619987	1201302578	05-APR-2007 14:22	DONE	2	-0.2	percent	576	0	-5300	6420	20.0	2920
621752	1201306766	05-APR-2007 14:23	DONE	82	-0.17	percent	576	0	-5300	6420	20.0	2920
621051	1201305090	05-APR-2007 18:42	DUSE	60	-0.18	percent	576	0	-5300	6420	20.0	2920
621048	1201305080	05-APR-2007 19:53	DONE	317	-0.09	percent	576	0	-5300	6420	20.0	2920
621051	1201305090	09-APR-2007 14:40	DUSE	56	-0.18	percent	576	0	-5300	6420	20.0	2920
624279	1201312231	16-APR-2007 13:08	DONE	42	-0.18	percent	576	0	-5300	6420	20.0	2920
624636	1201313096	16-APR-2007 16:20	DUSE	223	-0.12	percent	576	0	-5300	6420	20.0	2920
625746	1201315866	17-APR-2007 13:28	DONE	96	-0.16	percent	576	0	-5300	6420	20.0	2920
624798	1201313473	17-APR-2007 17:35	DONE	128	-0.15	percent	576	0	-5300	6420	20.0	2920
625863	1201316168	19-APR-2007 20:44	DUSE	28	-0.19	percent	576	0	-5300	6420	20.0	2920
626522	1201317686	20-APR-2007 14:04	DONE	232	-0.12	percent	576	0	-5300	6420	20.0	2920
625866	1201316179	20-APR-2007 14:59	DUSE	32	-0.19	percent	576	0	-5300	6420	20.0	2920
626514	1201317664	20-APR-2007 14:59	DUSE	289	-0.1	percent	576	0	-5300	6420	20.0	2920
625870	1201316193	21-APR-2007 16:22	DUSE	52	-0.18	percent	576	0	-5300	6420	20.0	2920
624282	1201312241	21-APR-2007 16:32	DUSE	80	-0.17	percent	576	0	-5300	6420	20.0	2920
624636	1201313096	23-APR-2007 19:06	DONE	0	-0.2	percent	576	0	-5300	6420	20.0	2920
626934	1201318609	24-APR-2007 15:45	DONE	153	-0.14	percent	576	0	-5300	6420	20.0	2920
625870	1201316193	24-APR-2007 15:46	DONE	23	-0.19	percent	576	0	-5300	6420	20.0	2920
625866	1201316179	24-APR-2007 15:46	DONE	78	-0.17	percent	576	0	-5300	6420	20.0	2920
627306	1201319577	25-APR-2007 09:08	DONE	100	-0.16	percent	576	0	-5300	6420	20.0	2920
628076	1201321440	26-APR-2007 01:36	DUSE	29	-0.19	percent	576	0	-5300	6420	20.0	2920
628978	1201323522	28-APR-2007 21:22	DONE	33	-0.19	percent	576	0	-5300	6420	20.0	2920

628967	1201323486	30-APR-2007 10:28	DONE	54	-0.18	percent	576	0	-5300	6420	20.0	2920
627793	1201320821	01-MAY-2007 18:10	DUSE	60	-0.18	percent	576	0	-5300	6420	20.0	2920
628857	1201323304	03-MAY-2007 08:48	DONE	18345	6.1	percent	576	0	-5300	6420	20.0	2920
628506	1201322489	03-MAY-2007 10:10	DONE	43	-0.18	percent	576	0	-5300	6420	20.0	2920
628492	1201322440	03-MAY-2007 13:30	DUSE	20	-0.19	percent	576	0	-5300	6420	20.0	2920
627776	1201320747	03-MAY-2007 13:30	DUSE	38	-0.18	percent	576	0	-5300	6420	20.0	2920
631446	1201329371	04-MAY-2007 17:48	DONE	41	-0.18	percent	576	0	-5300	6420	20.0	2920
631452	1201329390	05-MAY-2007 17:30	DONE	108	-0.16	percent	576	0	-5300	6420	20.0	2920
631795	1201330292	08-MAY-2007 15:20	DUSE	2	-0.2	percent	576	0	-5300	6420	20.0	2920
632131	1201331139	08-MAY-2007 23:36	DONE	704	0.04	percent	576	0	-5300	6420	20.0	2920
631910	1201330605	09-MAY-2007 16:33	DUSE	79	-0.17	percent	576	0	-5300	6420	20.0	2920

Thorium-230 LCS: Limits LCL = 75 UCL = 125

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
576065	1201200426	07-OCT-2006 14:20	DONE	87	-2	percent	100	75.0	83.3	117	125	8.33
576680	1201201678	09-OCT-2006 15:06	DONE	95	-0.56	percent	100	75.0	83.3	117	125	8.33
580612	1201210570	20-OCT-2006 13:15	DONE	86	-2	percent	100	75.0	83.3	117	125	8.33
582744	1201215597	27-OCT-2006 16:59	DONE	81	-2	percent	100	75.0	83.3	117	125	8.33
584670	1201219987	03-NOV-2006 13:33	DONE	77	-3	percent	100	75.0	83.3	117	125	8.33
585162	1201221458	04-NOV-2006 09:51	DONE	99	-0.07	percent	100	75.0	83.3	117	125	8.33
589221	1201231087	18-NOV-2006 14:32	DONE	97	-0.34	percent	100	75.0	83.3	117	125	8.33
590573	1201234542	27-NOV-2006 08:52	DONE	105	0.6	percent	100	75.0	83.3	117	125	8.33
590576	1201234553	27-NOV-2006 13:31	DONE	106	0.72	percent	100	75.0	83.3	117	125	8.33
592293	1201238502	02-DEC-2006 14:42	DONE	89	-1	percent	100	75.0	83.3	117	125	8.33
593217	1201240626	09-DEC-2006 08:46	DONE	88	-1	percent	100	75.0	83.3	117	125	8.33
595869	1201246657	18-DEC-2006 09:12	DONE	90	-1	percent	100	75.0	83.3	117	125	8.33
596704	1201248672	22-DEC-2006 13:17	DONE	78	-3	percent	100	75.0	83.3	117	125	8.33
624865	1201313619	13-APR-2007 10:15	DONE	82	-2	percent	100	75.0	83.3	117	125	8.33

Thorium-230 RER: Limits LCL = 0 UCL = 3

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
617244	1201295971	23-MAR-2007 08:37	DONE	0.12	-1	num	0.95	0	-0.37	2.28	3.00	0.66
617071	1201295507	26-MAR-2007 19:08	DONE	0.35	-0.92	num	0.95	0	-0.37	2.28	3.00	0.66
619676	1201301836	26-MAR-2007 19:49	DONE	0.66	-0.44	num	0.95	0	-0.37	2.28	3.00	0.66
619985	1201302571	28-MAR-2007 10:19	DONE	1.64	1	num	0.95	0	-0.37	2.28	3.00	0.66
620541	1201303979	28-MAR-2007 10:20	DUSE	1.58	0.94	num	0.95	0	-0.37	2.28	3.00	0.66
619987	1201302578	29-MAR-2007 09:02	DUSE	2.4	2.2	num	0.95	0	-0.37	2.28	3.00	0.66
619119	1201300469	30-MAR-2007 14:45	DUSE	1.43	0.73	num	0.95	0	-0.37	2.28	3.00	0.66
619119	1201300469	02-APR-2007 16:08	DONE	0.56	-0.6	num	0.95	0	-0.37	2.28	3.00	0.66
619987	1201302578	05-APR-2007 14:22	DONE	0.05	-1	num	0.95	0	-0.37	2.28	3.00	0.66
621752	1201306766	05-APR-2007 14:23	DONE	0.86	-0.14	num	0.95	0	-0.37	2.28	3.00	0.66
621051	1201305090	05-APR-2007 18:42	DUSE	0.29	-1	num	0.95	0	-0.37	2.28	3.00	0.66
621048	1201305080	05-APR-2007 19:53	DONE	1.11	0.23	num	0.95	0	-0.37	2.28	3.00	0.66
621051	1201305090	09-APR-2007 14:40	DUSE	0.37	-0.88	num	0.95	0	-0.37	2.28	3.00	0.66
624279	1201312231	16-APR-2007 13:08	DONE	1.12	0.25	num	0.95	0	-0.37	2.28	3.00	0.66
624636	1201313096	16-APR-2007 16:20	DUSE	2.55	2.4	num	0.95	0	-0.37	2.28	3.00	0.66
625746	1201315866	17-APR-2007 13:28	DONE	0.75	-0.31	num	0.95	0	-0.37	2.28	3.00	0.66
624798	1201313473	17-APR-2007 17:35	DONE	0.95	-0.01	num	0.95	0	-0.37	2.28	3.00	0.66
625863	1201316168	19-APR-2007 20:44	DUSE	0.47	-0.73	num	0.95	0	-0.37	2.28	3.00	0.66
626522	1201317686	20-APR-2007 14:04	DONE	1.99	1.6	num	0.95	0	-0.37	2.28	3.00	0.66

625866	1201316179	20-APR-2007 14:59	DUSE	0.38	-0.87	num	0.95	0	-0.37	2.28	3.00	0.66
625870	1201316193	21-APR-2007 16:22	DUSE	0.62	-0.5	num	0.95	0	-0.37	2.28	3.00	0.66
624282	1201312241	21-APR-2007 16:32	DUSE	1.03	0.12	num	0.95	0	-0.37	2.28	3.00	0.66
626934	1201318609	24-APR-2007 15:45	DONE	1.91	1.4	num	0.95	0	-0.37	2.28	3.00	0.66
625870	1201316193	24-APR-2007 15:46	DONE	0.46	-0.75	num	0.95	0	-0.37	2.28	3.00	0.66
625866	1201316179	24-APR-2007 15:46	DONE	0.92	-0.05	num	0.95	0	-0.37	2.28	3.00	0.66
627306	1201319577	25-APR-2007 09:08	DONE	1.07	0.18	num	0.95	0	-0.37	2.28	3.00	0.66
628076	1201321440	26-APR-2007 01:36	DUSE	0.6	-0.54	num	0.95	0	-0.37	2.28	3.00	0.66
628978	1201323522	28-APR-2007 21:22	DONE	0.51	-0.67	num	0.95	0	-0.37	2.28	3.00	0.66
628967	1201323486	30-APR-2007 10:28	DONE	0.8	-0.23	num	0.95	0	-0.37	2.28	3.00	0.66
627793	1201320821	01-MAY-2007 18:10	DUSE	1.24	0.43	num	0.95	0	-0.37	2.28	3.00	0.66
628857	1201323304	03-MAY-2007 08:48	DONE	1.43	0.72	num	0.95	0	-0.37	2.28	3.00	0.66
628506	1201322489	03-MAY-2007 10:10	DONE	0.22	-1	num	0.95	0	-0.37	2.28	3.00	0.66
628492	1201322440	03-MAY-2007 13:30	DUSE	0.41	-0.82	num	0.95	0	-0.37	2.28	3.00	0.66
627776	1201320747	03-MAY-2007 13:30	DUSE	2.34	2.1	num	0.95	0	-0.37	2.28	3.00	0.66
631446	1201329371	04-MAY-2007 17:48	DONE	0.48	-0.71	num	0.95	0	-0.37	2.28	3.00	0.66
631452	1201329390	05-MAY-2007 17:30	DONE	1.1	0.22	num	0.95	0	-0.37	2.28	3.00	0.66
631795	1201330292	08-MAY-2007 15:20	DUSE	0.07	-1	num	0.95	0	-0.37	2.28	3.00	0.66
632131	1201331139	08-MAY-2007 23:36	DONE	1.64	1	num	0.95	0	-0.37	2.28	3.00	0.66
631910	1201330605	09-MAY-2007 16:33	DUSE	0.72	-0.36	num	0.95	0	-0.37	2.28	3.00	0.66

Thorium-230 SPIKE: Limits LCL = 75 UCL = 125

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
576065	1201200425	07-OCT-2006 14:20	DONE	78	-3	percent	100	75.0	83.3	117	125	8.33
576680	1201201677	07-OCT-2006 19:20	DONE	118	2.2	percent	100	75.0	83.3	117	125	8.33
580612	1201210569	20-OCT-2006 13:15	DONE	84	-2	percent	100	75.0	83.3	117	125	8.33
582744	1201215596	27-OCT-2006 16:59	DONE	79	-3	percent	100	75.0	83.3	117	125	8.33
584670	1201219986	03-NOV-2006 13:33	DONE	83	-2	percent	100	75.0	83.3	117	125	8.33
585162	1201221457	04-NOV-2006 09:51	DONE	76	-3	percent	100	75.0	83.3	117	125	8.33
589221	1201231086	18-NOV-2006 14:32	DONE	79	-3	percent	100	75.0	83.3	117	125	8.33
590573	1201234541	27-NOV-2006 08:52	DONE	83	-2	percent	100	75.0	83.3	117	125	8.33
590576	1201234552	27-NOV-2006 13:31	DONE	100	-0.05	percent	100	75.0	83.3	117	125	8.33
592293	1201238501	02-DEC-2006 14:42	DONE	99	-0.07	percent	100	75.0	83.3	117	125	8.33
593217	1201240625	09-DEC-2006 08:46	DONE	84	-2	percent	100	75.0	83.3	117	125	8.33
595869	1201246656	18-DEC-2006 09:12	DONE	81	-2	percent	100	75.0	83.3	117	125	8.33
596704	1201248671	22-DEC-2006 13:17	DONE	79	-2	percent	100	75.0	83.3	117	125	8.33
624865	1201313618	13-APR-2007 10:15	DONE	92	-0.94	percent	100	75.0	83.3	117	125	8.33

Thorium-232 BLANK: Limits LCL = -4.1 UCL = 4.6

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
619119	1201300468	30-MAR-2007 14:45	DUSE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
619119	1201300468	02-APR-2007 16:07	DONE	0	-0.15	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
621752	1201306765	05-APR-2007 14:23	DONE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
619987	1201302577	05-APR-2007 14:24	DONE	0	0.11	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
621051	1201305089	05-APR-2007 18:42	DUSE	0	-0.15	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
621048	1201305079	05-APR-2007 19:53	DONE	0	-0.19	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
622582	1201308519	06-APR-2007 15:11	DUSE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
622582	1201308519	10-APR-2007 14:58	DUSE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
624865	1201313616	13-APR-2007 10:15	DUSE	0	-0.14	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
624865	1201313616	14-APR-2007 20:49	DONE	0	-0.17	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46

624279	1201312230	16-APR-2007 13:08	DONE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
624636	1201313095	16-APR-2007 16:19	DONE	0	-0.21	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
625746	1201315865	17-APR-2007 13:28	DUSE	9	6.1	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
624798	1201313472	17-APR-2007 17:35	DONE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
625746	1201315865	18-APR-2007 08:42	DUSE	0	-0.09	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
625746	1201315865	18-APR-2007 13:40	DONE	0	-0.39	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
625863	1201316167	19-APR-2007 20:44	DONE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
626522	1201317685	20-APR-2007 14:04	DONE	0	-0.14	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
625866	1201316178	20-APR-2007 14:59	DUSE	0	-0.25	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
626514	1201317663	20-APR-2007 14:59	DUSE	0	-0.29	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
625870	1201316192	21-APR-2007 16:22	DUSE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
624282	1201312240	21-APR-2007 16:32	DUSE	0	-0.04	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
626934	1201318608	24-APR-2007 15:45	DONE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
625870	1201316192	24-APR-2007 15:46	DONE	0	-0.12	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
625866	1201316178	24-APR-2007 15:46	DONE	0	-0.41	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
627306	1201319576	25-APR-2007 09:08	DONE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
628076	1201321439	26-APR-2007 01:36	DUSE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
628978	1201323521	28-APR-2007 21:22	DONE	0	-0.15	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
628967	1201323485	30-APR-2007 10:28	DONE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
627793	1201320820	01-MAY-2007 18:10	DUSE	0	-0.15	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
628857	1201323303	03-MAY-2007 08:48	DONE	0	-0.08	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
628506	1201322488	03-MAY-2007 10:10	DONE	0	-0.16	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
628492	1201322439	03-MAY-2007 13:30	DUSE	0	-0.15	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
627776	1201320746	03-MAY-2007 13:30	DUSE	0	-0.06	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
631446	1201329370	04-MAY-2007 17:48	DONE	0	-0.17	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
631452	1201329389	05-MAY-2007 17:30	DONE	0	-0.14	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
631795	1201330291	08-MAY-2007 15:20	DUSE	0	-0.15	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
632131	1201331138	08-MAY-2007 23:36	DONE	0	-0.19	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46
631910	1201330604	09-MAY-2007 16:33	DUSE	0	-0.15	pCi/L	0.23	-4.1	-2.7	3.15	4.6	1.46

Thorium-232 DUP: Limits LCL = 0 UCL = 20

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
619676	1201301836	26-MAR-2007 19:49	DONE	396	-0.2	percent	1720	0	-12000	15200	20.0	6730
619985	1201302571	28-MAR-2007 10:19	DONE	119	-0.24	percent	1720	0	-12000	15200	20.0	6730
620541	1201303979	28-MAR-2007 10:20	DONE	19	-0.25	percent	1720	0	-12000	15200	20.0	6730
619987	1201302578	29-MAR-2007 09:02	DUSE	38	-0.25	percent	1720	0	-12000	15200	20.0	6730
619119	1201300469	30-MAR-2007 14:45	DUSE	232	-0.22	percent	1720	0	-12000	15200	20.0	6730
619119	1201300469	02-APR-2007 16:08	DONE	321	-0.21	percent	1720	0	-12000	15200	20.0	6730
619987	1201302578	05-APR-2007 14:22	DONE	7	-0.25	percent	1720	0	-12000	15200	20.0	6730
621752	1201306766	05-APR-2007 14:23	DONE	26	-0.25	percent	1720	0	-12000	15200	20.0	6730
621051	1201305090	05-APR-2007 18:42	DUSE	24	-0.25	percent	1720	0	-12000	15200	20.0	6730
621048	1201305080	05-APR-2007 19:53	DONE	4	-0.26	percent	1720	0	-12000	15200	20.0	6730
621051	1201305090	09-APR-2007 14:40	DUSE	21	-0.25	percent	1720	0	-12000	15200	20.0	6730
624279	1201312231	16-APR-2007 13:08	DONE	32	-0.25	percent	1720	0	-12000	15200	20.0	6730
624636	1201313096	16-APR-2007 16:20	DUSE	1042	-0.1	percent	1720	0	-12000	15200	20.0	6730
625746	1201315866	17-APR-2007 13:28	DONE	287	-0.21	percent	1720	0	-12000	15200	20.0	6730
624798	1201313473	17-APR-2007 17:35	DONE	28	-0.25	percent	1720	0	-12000	15200	20.0	6730
625863	1201316168	19-APR-2007 20:44	DONE	123	-0.24	percent	1720	0	-12000	15200	20.0	6730
626522	1201317686	20-APR-2007 14:04	DONE	894	-0.12	percent	1720	0	-12000	15200	20.0	6730
625866	1201316179	20-APR-2007 14:59	DUSE	6	-0.26	percent	1720	0	-12000	15200	20.0	6730

626514	1201317664	20-APR-2007 14:59	DUSE	197	-0.23	percent	1720	0	-12000	15200	20.0	6730
625870	1201316193	21-APR-2007 16:22	DUSE	32	-0.25	percent	1720	0	-12000	15200	20.0	6730
624282	1201312241	21-APR-2007 16:32	DUSE	74	-0.24	percent	1720	0	-12000	15200	20.0	6730
624636	1201313096	23-APR-2007 19:06	DONE	0	-0.26	percent	1720	0	-12000	15200	20.0	6730
626934	1201318609	24-APR-2007 15:45	DONE	27509	3.8	percent	1720	0	-12000	15200	20.0	6730
625870	1201316193	24-APR-2007 15:46	DONE	204	-0.23	percent	1720	0	-12000	15200	20.0	6730
625866	1201316179	24-APR-2007 15:46	DONE	14	-0.25	percent	1720	0	-12000	15200	20.0	6730
627306	1201319577	25-APR-2007 09:08	DONE	55	-0.25	percent	1720	0	-12000	15200	20.0	6730
628076	1201321440	26-APR-2007 01:36	DUSE	55	-0.25	percent	1720	0	-12000	15200	20.0	6730
628978	1201323522	28-APR-2007 21:22	DONE	6	-0.26	percent	1720	0	-12000	15200	20.0	6730
628967	1201323486	30-APR-2007 10:28	DONE	79	-0.24	percent	1720	0	-12000	15200	20.0	6730
627793	1201320821	01-MAY-2007 18:10	DUSE	44	-0.25	percent	1720	0	-12000	15200	20.0	6730
628857	1201323304	03-MAY-2007 08:48	DONE	94	-0.24	percent	1720	0	-12000	15200	20.0	6730
628506	1201322489	03-MAY-2007 10:10	DONE	32800	4.6	percent	1720	0	-12000	15200	20.0	6730
628492	1201322440	03-MAY-2007 13:30	DUSE	5	-0.26	percent	1720	0	-12000	15200	20.0	6730
627776	1201320747	03-MAY-2007 13:30	DUSE	29	-0.25	percent	1720	0	-12000	15200	20.0	6730
631446	1201329371	04-MAY-2007 17:48	DONE	5	-0.26	percent	1720	0	-12000	15200	20.0	6730
631452	1201329390	05-MAY-2007 17:30	DONE	405	-0.2	percent	1720	0	-12000	15200	20.0	6730
631795	1201330292	08-MAY-2007 15:20	DUSE	24	-0.25	percent	1720	0	-12000	15200	20.0	6730
632131	1201331139	08-MAY-2007 23:36	DONE	1916	0.03	percent	1720	0	-12000	15200	20.0	6730
631910	1201330605	09-MAY-2007 16:33	DUSE	62	-0.25	percent	1720	0	-12000	15200	20.0	6730

Thorium-232 LCS: Limits LCL = 75 UCL = 125

Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
618762	1201299603	23-MAR-2007 16:01	DONE	103	0.39	percent	100	75.0	83.3	117	125	8.33
618762	1201299603	23-MAR-2007 16:01	DUSE	92	-0.94	percent	100	75.0	83.3	117	125	8.33
617071	1201295509	26-MAR-2007 19:08	DONE	93	-0.86	percent	100	75.0	83.3	117	125	8.33
619676	1201301838	26-MAR-2007 19:49	DONE	99	-0.12	percent	100	75.0	83.3	117	125	8.33
619985	1201302573	28-MAR-2007 10:19	DONE	93	-0.83	percent	100	75.0	83.3	117	125	8.33
620541	1201303981	28-MAR-2007 10:20	DONE	119	2.3	percent	100	75.0	83.3	117	125	8.33
619987	1201302580	29-MAR-2007 09:02	DUSE	88	-1	percent	100	75.0	83.3	117	125	8.33
619119	1201300470	02-APR-2007 16:08	DONE	106	0.74	percent	100	75.0	83.3	117	125	8.33
621051	1201305091	05-APR-2007 18:42	DUSE	108	0.98	percent	100	75.0	83.3	117	125	8.33
621048	1201305082	05-APR-2007 19:53	DONE	112	1.5	percent	100	75.0	83.3	117	125	8.33
619987	1201302580	06-APR-2007 07:59	DONE	83	-2	percent	100	75.0	83.3	117	125	8.33
621752	1201306768	06-APR-2007 07:59	DONE	108	0.96	percent	100	75.0	83.3	117	125	8.33
624279	1201312233	16-APR-2007 13:08	DONE	100	0	percent	100	75.0	83.3	117	125	8.33
624636	1201313098	16-APR-2007 16:20	DONE	94	-0.68	percent	100	75.0	83.3	117	125	8.33
625746	1201315868	17-APR-2007 13:28	DONE	92	-0.95	percent	100	75.0	83.3	117	125	8.33
624798	1201313474	17-APR-2007 17:35	DONE	95	-0.62	percent	100	75.0	83.3	117	125	8.33
625863	1201316170	19-APR-2007 20:44	DONE	93	-0.8	percent	100	75.0	83.3	117	125	8.33
626522	1201317688	20-APR-2007 14:04	DONE	105	0.62	percent	100	75.0	83.3	117	125	8.33
625866	1201316180	20-APR-2007 14:59	DUSE	99	-0.18	percent	100	75.0	83.3	117	125	8.33
626514	1201317666	20-APR-2007 14:59	DONE	85	-2	percent	100	75.0	83.3	117	125	8.33
625870	1201316195	21-APR-2007 16:21	DUSE	138	4.5	percent	100	75.0	83.3	117	125	8.33
624282	1201312242	21-APR-2007 16:32	DUSE	113	1.6	percent	100	75.0	83.3	117	125	8.33
626934	1201318611	24-APR-2007 15:45	DONE	82	-2	percent	100	75.0	83.3	117	125	8.33
625870	1201316195	24-APR-2007 15:46	DONE	124	2.9	percent	100	75.0	83.3	117	125	8.33
625866	1201316180	24-APR-2007 15:46	DONE	100	0	percent	100	75.0	83.3	117	125	8.33
627306	1201319579	25-APR-2007 09:08	DONE	118	2.2	percent	100	75.0	83.3	117	125	8.33

628076	1201321441	26-APR-2007 01:36	DUSE	98	-0.3	percent	100	75.0	83.3	117	125	8.33
628978	1201323523	28-APR-2007 21:22	DONE	106	0.77	percent	100	75.0	83.3	117	125	8.33
628967	1201323488	30-APR-2007 10:28	DONE	100	0.04	percent	100	75.0	83.3	117	125	8.33
627793	1201320822	01-MAY-2007 18:08	DUSE	99	-0.1	percent	100	75.0	83.3	117	125	8.33
628857	1201323306	03-MAY-2007 08:48	DONE	119	2.3	percent	100	75.0	83.3	117	125	8.33
628506	1201322490	03-MAY-2007 10:10	DONE	104	0.48	percent	100	75.0	83.3	117	125	8.33
628492	1201322441	03-MAY-2007 13:30	DUSE	110	1.2	percent	100	75.0	83.3	117	125	8.33
627776	1201320749	03-MAY-2007 13:30	DUSE	107	0.83	percent	100	75.0	83.3	117	125	8.33
631446	1201329372	04-MAY-2007 17:48	DONE	94	-0.7	percent	100	75.0	83.3	117	125	8.33
631452	1201329392	05-MAY-2007 17:30	DONE	105	0.6	percent	100	75.0	83.3	117	125	8.33
631795	1201330294	08-MAY-2007 15:20	DUSE	110	1.2	percent	100	75.0	83.3	117	125	8.33
632131	1201331141	09-MAY-2007 08:19	DONE	93	-0.82	percent	100	75.0	83.3	117	125	8.33
631910	1201330606	09-MAY-2007 16:33	DUSE	102	0.21	percent	100	75.0	83.3	117	125	8.33

Thorium-232 RER: Limits LCL = 0 UCL = 3

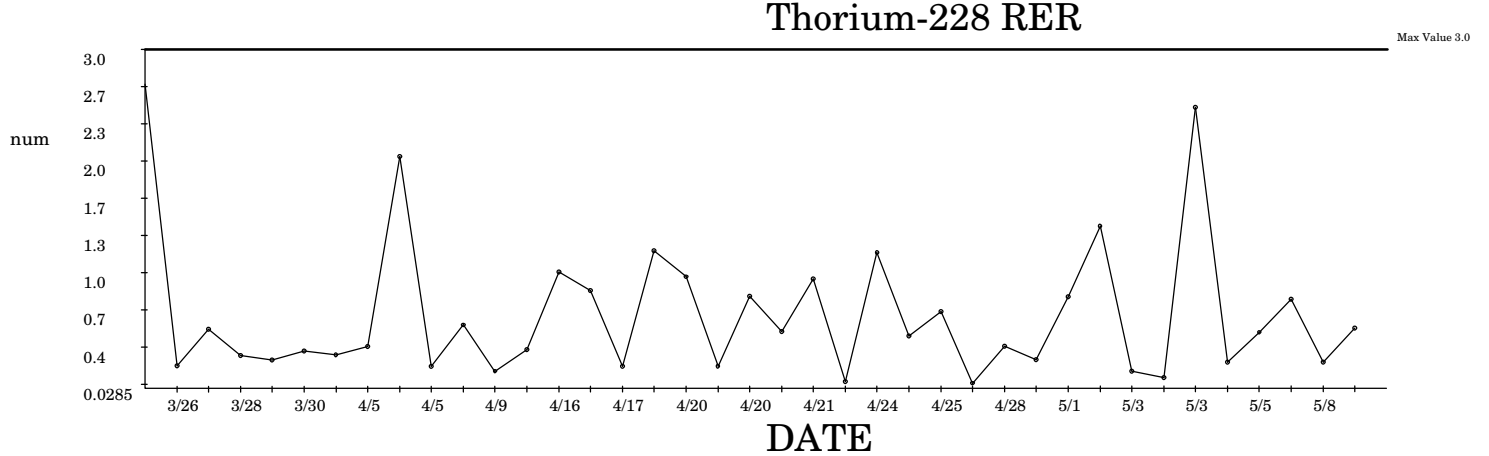
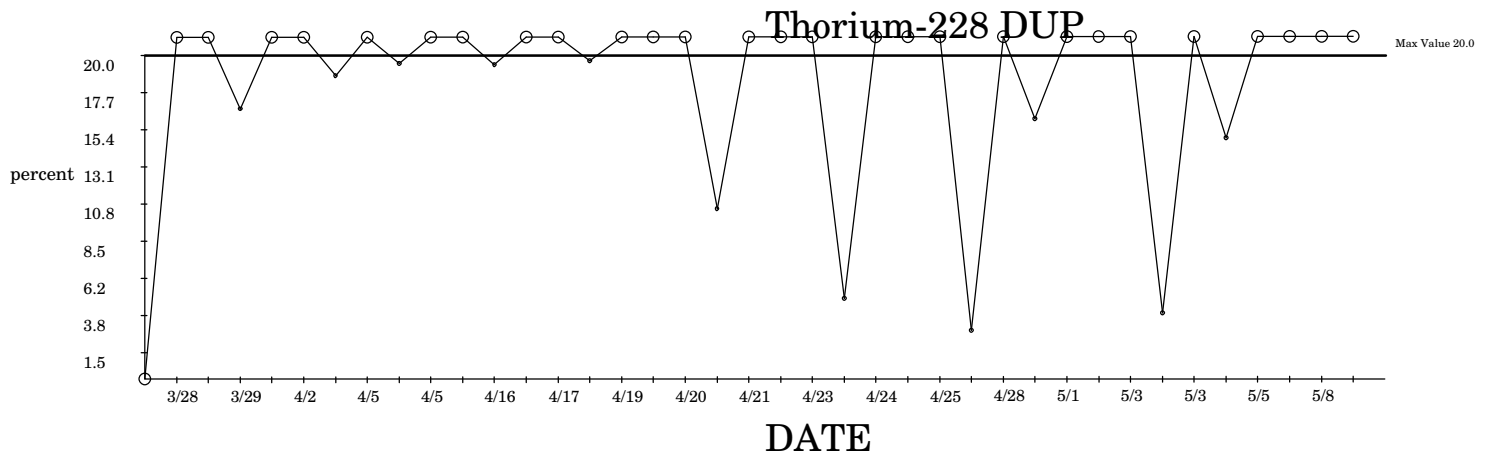
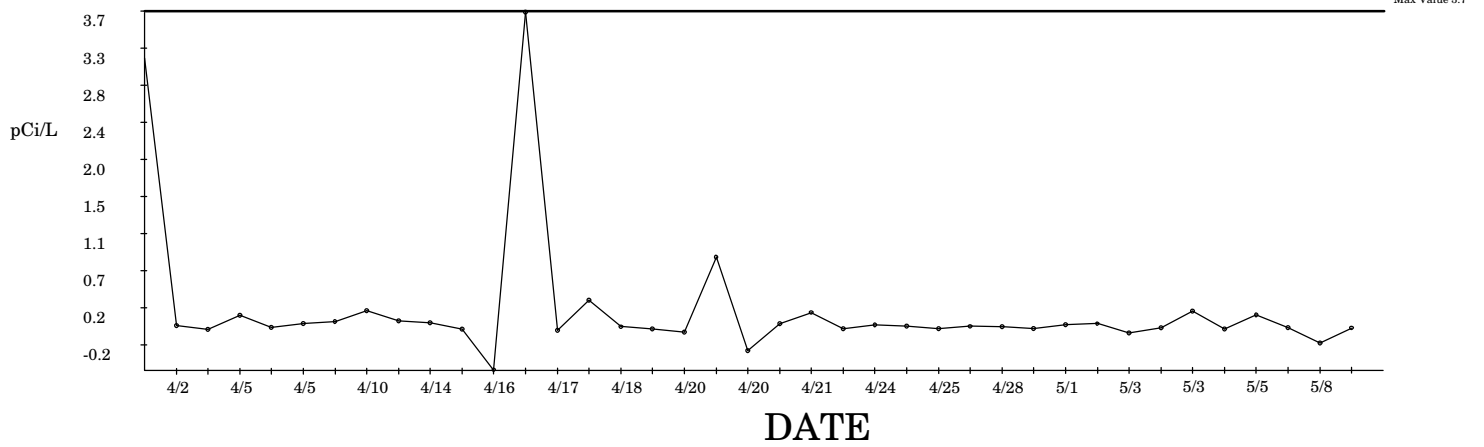
Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
617244	1201295971	23-MAR-2007 08:37	DONE	0.86	0.31	num	0.69	0	-0.418	1.8	3.00	0.55
617071	1201295507	26-MAR-2007 19:08	DONE	0.56	-0.23	num	0.69	0	-0.418	1.8	3.00	0.55
619676	1201301836	26-MAR-2007 19:49	DONE	1.26	1	num	0.69	0	-0.418	1.8	3.00	0.55
619985	1201302571	28-MAR-2007 10:19	DONE	1.31	1.1	num	0.69	0	-0.418	1.8	3.00	0.55
620541	1201303979	28-MAR-2007 10:20	DONE	0.06	-1	num	0.69	0	-0.418	1.8	3.00	0.55
619987	1201302578	29-MAR-2007 09:02	DUSE	0.54	-0.27	num	0.69	0	-0.418	1.8	3.00	0.55
619119	1201300469	30-MAR-2007 14:45	DUSE	1.59	1.6	num	0.69	0	-0.418	1.8	3.00	0.55
619119	1201300469	02-APR-2007 16:08	DONE	0.46	-0.42	num	0.69	0	-0.418	1.8	3.00	0.55
619987	1201302578	05-APR-2007 14:22	DONE	0.12	-1	num	0.69	0	-0.418	1.8	3.00	0.55
621752	1201306766	05-APR-2007 14:23	DONE	0.15	-0.98	num	0.69	0	-0.418	1.8	3.00	0.55
621051	1201305090	05-APR-2007 18:42	DUSE	0.15	-0.97	num	0.69	0	-0.418	1.8	3.00	0.55
621048	1201305080	05-APR-2007 19:53	DONE	0.04	-1	num	0.69	0	-0.418	1.8	3.00	0.55
621051	1201305090	09-APR-2007 14:40	DUSE	0.09	-1	num	0.69	0	-0.418	1.8	3.00	0.55
624279	1201312231	16-APR-2007 13:08	DONE	0.46	-0.41	num	0.69	0	-0.418	1.8	3.00	0.55
624636	1201313096	16-APR-2007 16:20	DUSE	0.75	0.11	num	0.69	0	-0.418	1.8	3.00	0.55
625746	1201315866	17-APR-2007 13:28	DONE	1.56	1.6	num	0.69	0	-0.418	1.8	3.00	0.55
624798	1201313473	17-APR-2007 17:35	DONE	0.25	-0.79	num	0.69	0	-0.418	1.8	3.00	0.55
625863	1201316168	19-APR-2007 20:44	DONE	1.62	1.7	num	0.69	0	-0.418	1.8	3.00	0.55
626522	1201317686	20-APR-2007 14:04	DONE	1.53	1.5	num	0.69	0	-0.418	1.8	3.00	0.55
625866	1201316179	20-APR-2007 14:59	DUSE	0.05	-1	num	0.69	0	-0.418	1.8	3.00	0.55
625870	1201316193	21-APR-2007 16:22	DUSE	0.35	-0.62	num	0.69	0	-0.418	1.8	3.00	0.55
624282	1201312241	21-APR-2007 16:32	DUSE	0.96	0.5	num	0.69	0	-0.418	1.8	3.00	0.55
626934	1201318609	24-APR-2007 15:45	DONE	0.8	0.2	num	0.69	0	-0.418	1.8	3.00	0.55
625870	1201316193	24-APR-2007 15:46	DONE	0.65	-0.07	num	0.69	0	-0.418	1.8	3.00	0.55
625866	1201316179	24-APR-2007 15:46	DONE	0.05	-1	num	0.69	0	-0.418	1.8	3.00	0.55
627306	1201319577	25-APR-2007 09:08	DONE	0.59	-0.17	num	0.69	0	-0.418	1.8	3.00	0.55
628076	1201321440	26-APR-2007 01:36	DUSE	0.8	0.2	num	0.69	0	-0.418	1.8	3.00	0.55
628978	1201323522	28-APR-2007 21:22	DONE	0.09	-1	num	0.69	0	-0.418	1.8	3.00	0.55
628967	1201323486	30-APR-2007 10:28	DONE	1.25	1	num	0.69	0	-0.418	1.8	3.00	0.55
627793	1201320821	01-MAY-2007 18:10	DUSE	0.98	0.53	num	0.69	0	-0.418	1.8	3.00	0.55
628857	1201323304	03-MAY-2007 08:48	DONE	0.72	0.05	num	0.69	0	-0.418	1.8	3.00	0.55
628506	1201322489	03-MAY-2007 10:10	DONE	0.37	-0.57	num	0.69	0	-0.418	1.8	3.00	0.55
628492	1201322440	03-MAY-2007 13:30	DUSE	0.09	-1	num	0.69	0	-0.418	1.8	3.00	0.55
627776	1201320747	03-MAY-2007 13:30	DUSE	1.51	1.5	num	0.69	0	-0.418	1.8	3.00	0.55

631446	1201329371	04-MAY-2007 17:48	DONE	0.07	-1	num	0.69	0	-0.418	1.8	3.00	0.55
631452	1201329390	05-MAY-2007 17:30	DONE	1.66	1.7	num	0.69	0	-0.418	1.8	3.00	0.55
631795	1201330292	08-MAY-2007 15:20	DUSE	0.29	-0.73	num	0.69	0	-0.418	1.8	3.00	0.55
632131	1201331139	08-MAY-2007 23:36	DONE	1.67	1.8	num	0.69	0	-0.418	1.8	3.00	0.55
631910	1201330605	09-MAY-2007 16:33	DUSE	0.6	-0.16	num	0.69	0	-0.418	1.8	3.00	0.55

Thorium-232 SPIKE: Limits LCL = 75 UCL = 125

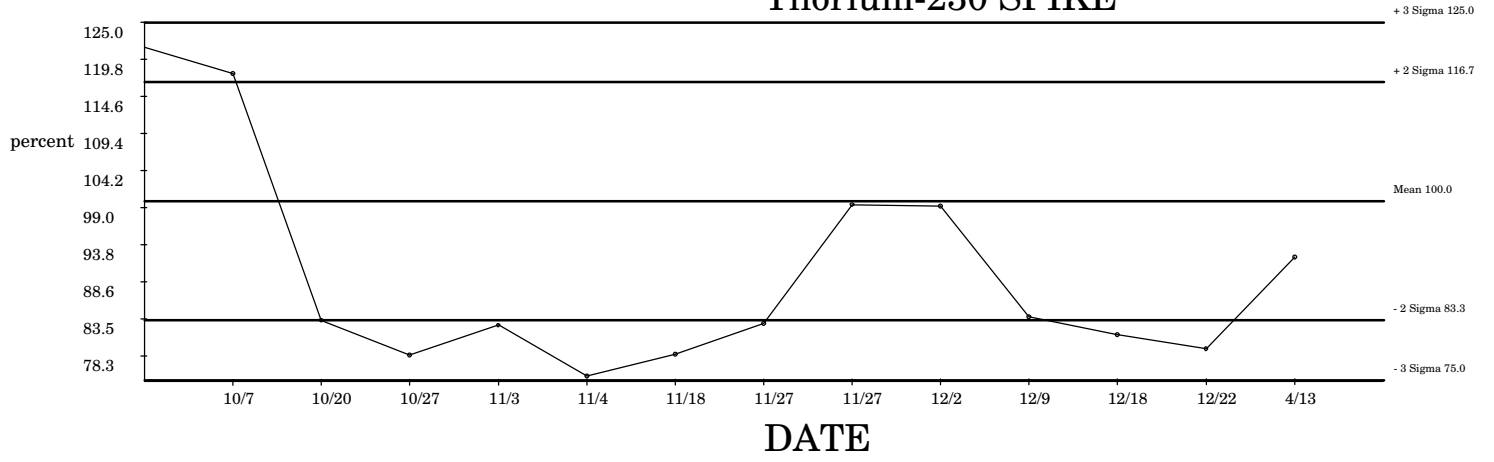
Batch ID	Samp ID	Run Date	Status	Value	Deviation	Units	Mean	LCL	LWL	UWL	UCL	Stdev
613779	1201287543	08-MAR-2007 16:38	DONE	96	-0.43	percent	100	75.0	83.3	117	125	8.33
615760	1201292263	09-MAR-2007 08:12	DONE	112	1.5	percent	100	75.0	83.3	117	125	8.33
615764	1201292283	14-MAR-2007 08:17	DONE	115	1.8	percent	100	75.0	83.3	117	125	8.33
615766	1201292291	14-MAR-2007 08:17	DONE	109	1.1	percent	100	75.0	83.3	117	125	8.33
615770	1201292305	15-MAR-2007 08:32	DUSE	102	0.22	percent	100	75.0	83.3	117	125	8.33
617066	1201295497	15-MAR-2007 12:48	DONE	117	2	percent	100	75.0	83.3	117	125	8.33
617071	1201295508	19-MAR-2007 14:36	DUSE	121	2.5	percent	100	75.0	83.3	117	125	8.33
615770	1201292305	20-MAR-2007 14:52	DONE	101	0.12	percent	100	75.0	83.3	117	125	8.33
617947	1201297629	20-MAR-2007 16:17	DONE	105	0.66	percent	100	75.0	83.3	117	125	8.33
617945	1201297621	20-MAR-2007 16:17	DONE	95	-0.56	percent	100	75.0	83.3	117	125	8.33
618214	1201298285	21-MAR-2007 07:50	DONE	102	0.24	percent	100	75.0	83.3	117	125	8.33
617948	1201297633	21-MAR-2007 21:02	DONE	90	-1	percent	100	75.0	83.3	117	125	8.33
618762	1201299602	22-MAR-2007 17:34	DONE	104	0.51	percent	100	75.0	83.3	117	125	8.33
617926	1201297568	23-MAR-2007 08:37	DONE	116	1.9	percent	100	75.0	83.3	117	125	8.33
617244	1201295972	23-MAR-2007 08:37	DONE	115	1.7	percent	100	75.0	83.3	117	125	8.33
617071	1201295508	26-MAR-2007 19:08	DONE	112	1.5	percent	100	75.0	83.3	117	125	8.33
619676	1201301837	26-MAR-2007 19:49	DONE	107	0.79	percent	100	75.0	83.3	117	125	8.33
619985	1201302572	28-MAR-2007 10:19	DONE	108	0.96	percent	100	75.0	83.3	117	125	8.33
620541	1201303980	28-MAR-2007 10:20	DONE	100	-0.02	percent	100	75.0	83.3	117	125	8.33
619987	1201302579	29-MAR-2007 09:02	DUSE	100	0.04	percent	100	75.0	83.3	117	125	8.33
619987	1201302579	05-APR-2007 14:22	DONE	101	0.07	percent	100	75.0	83.3	117	125	8.33
621048	1201305081	05-APR-2007 19:53	DONE	87	-2	percent	100	75.0	83.3	117	125	8.33
621752	1201306767	06-APR-2007 07:59	DONE	104	0.48	percent	100	75.0	83.3	117	125	8.33
624279	1201312232	16-APR-2007 13:08	DONE	93	-0.89	percent	100	75.0	83.3	117	125	8.33
624636	1201313097	16-APR-2007 16:20	DONE	106	0.72	percent	100	75.0	83.3	117	125	8.33
625746	1201315867	17-APR-2007 13:28	DONE	89	-1	percent	100	75.0	83.3	117	125	8.33
625863	1201316169	19-APR-2007 20:44	DONE	98	-0.19	percent	100	75.0	83.3	117	125	8.33
626522	1201317687	20-APR-2007 14:04	DONE	113	1.5	percent	100	75.0	83.3	117	125	8.33
626514	1201317665	20-APR-2007 14:59	DONE	105	0.6	percent	100	75.0	83.3	117	125	8.33
625870	1201316194	21-APR-2007 16:21	DUSE	124	2.9	percent	100	75.0	83.3	117	125	8.33
626934	1201318610	24-APR-2007 15:45	DONE	97	-0.33	percent	100	75.0	83.3	117	125	8.33
625870	1201316194	24-APR-2007 15:46	DONE	107	0.8	percent	100	75.0	83.3	117	125	8.33
627306	1201319578	25-APR-2007 09:08	DONE	125	3.00	percent	100	75.0	83.3	117	125	8.33
628967	1201323487	30-APR-2007 10:28	DONE	125	3	percent	100	75.0	83.3	117	125	8.33
628857	1201323305	03-MAY-2007 08:48	DONE	100	0.01	percent	100	75.0	83.3	117	125	8.33
627776	1201320748	03-MAY-2007 13:30	DUSE	113	1.6	percent	100	75.0	83.3	117	125	8.33
631452	1201329391	05-MAY-2007 17:30	DONE	88	-1	percent	100	75.0	83.3	117	125	8.33
631795	1201330293	08-MAY-2007 15:20	DUSE	100	-0.03	percent	100	75.0	83.3	117	125	8.33
632131	1201331140	09-MAY-2007 08:19	DONE	96	-0.54	percent	100	75.0	83.3	117	125	8.33

SPC Graph for Alpha SpecThorium in Liquids 5/9/2007 Thorium-228 BLANK



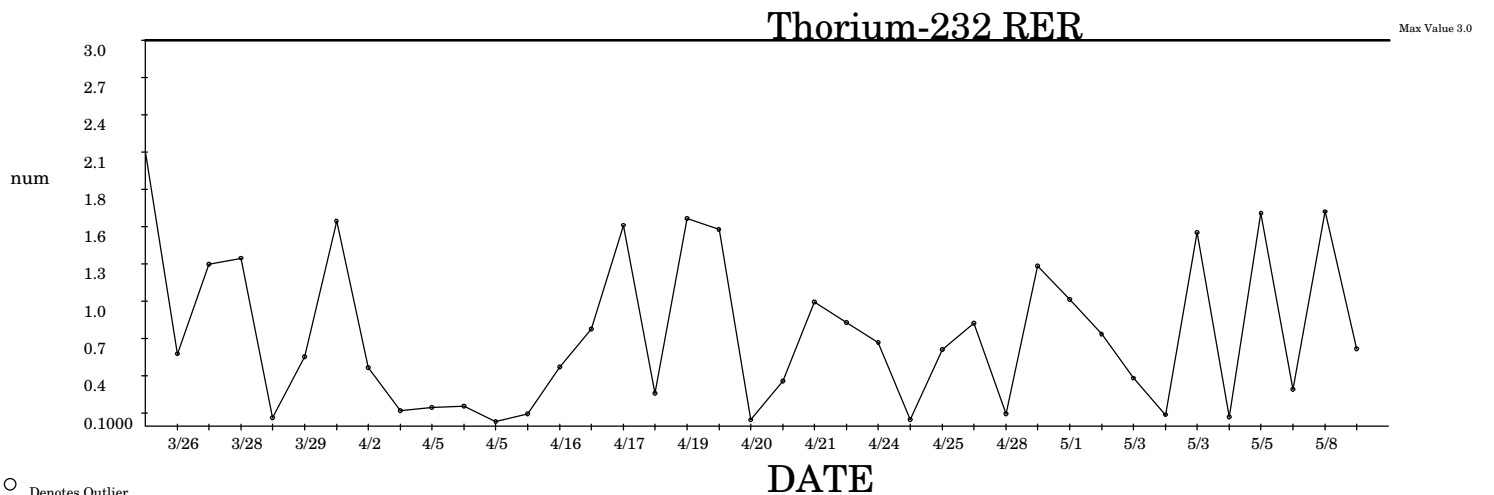
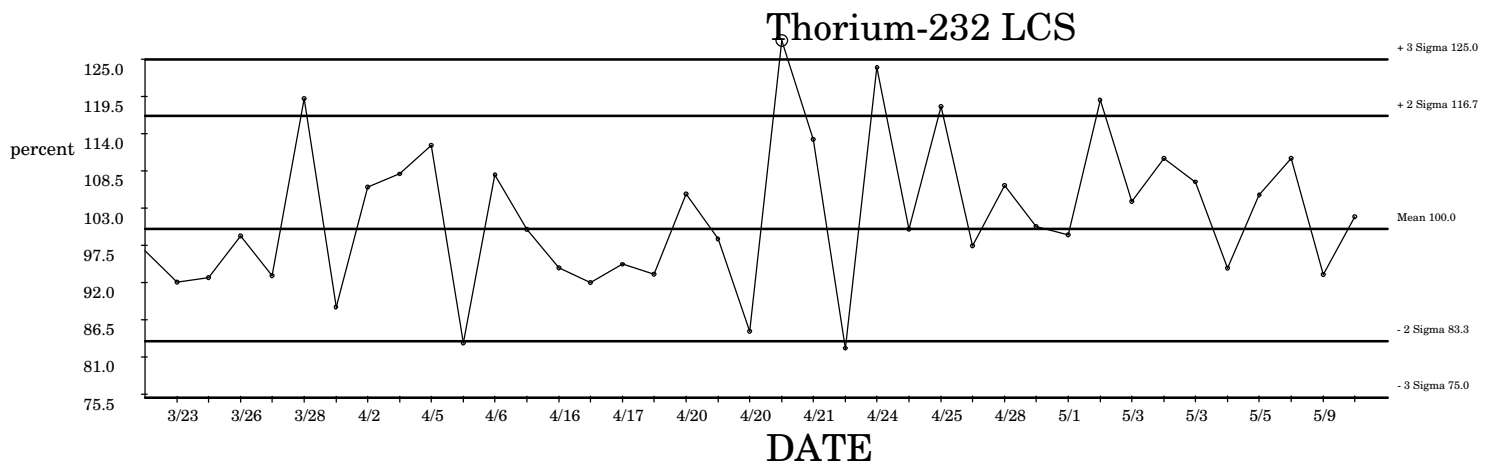
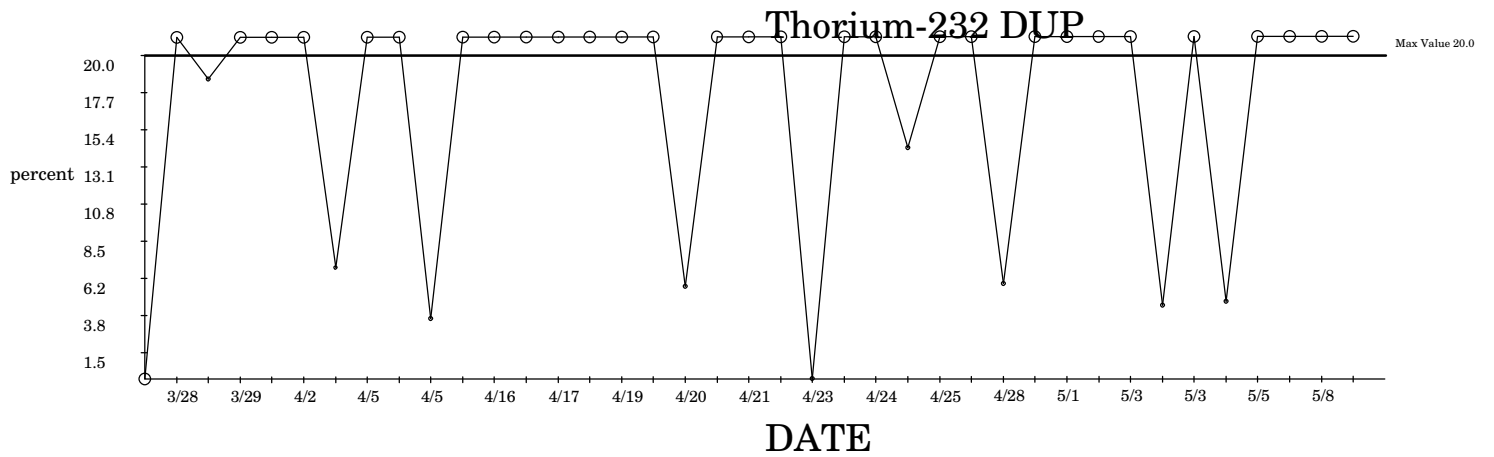
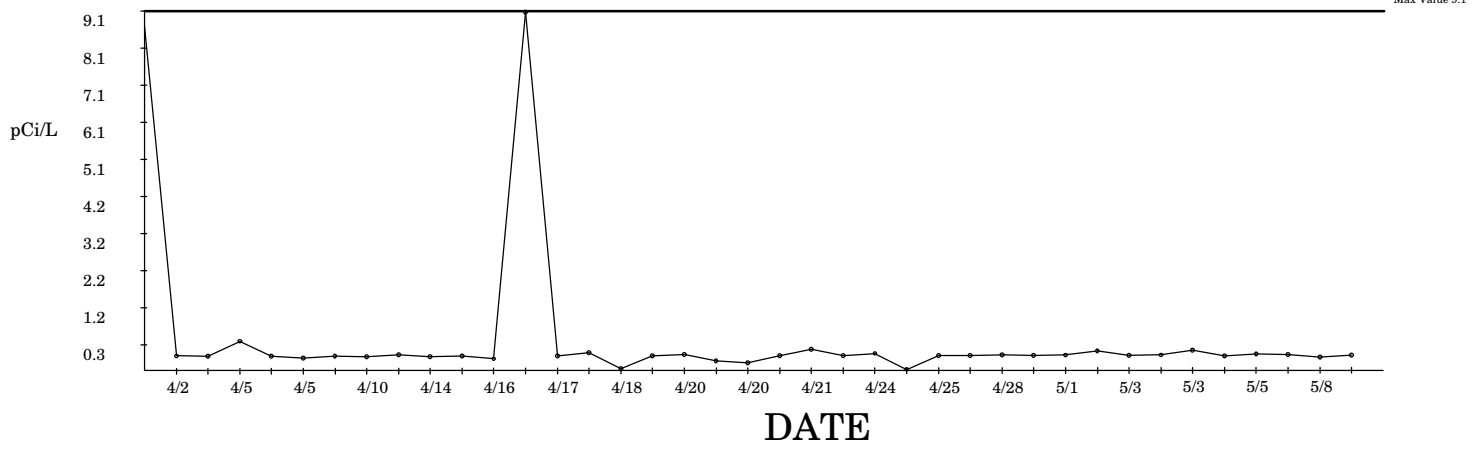
○ Denotes Outlier

SPC Graph for Alpha SpecThorium in Liquids 5/9/2007 Thorium-230 SPIKE



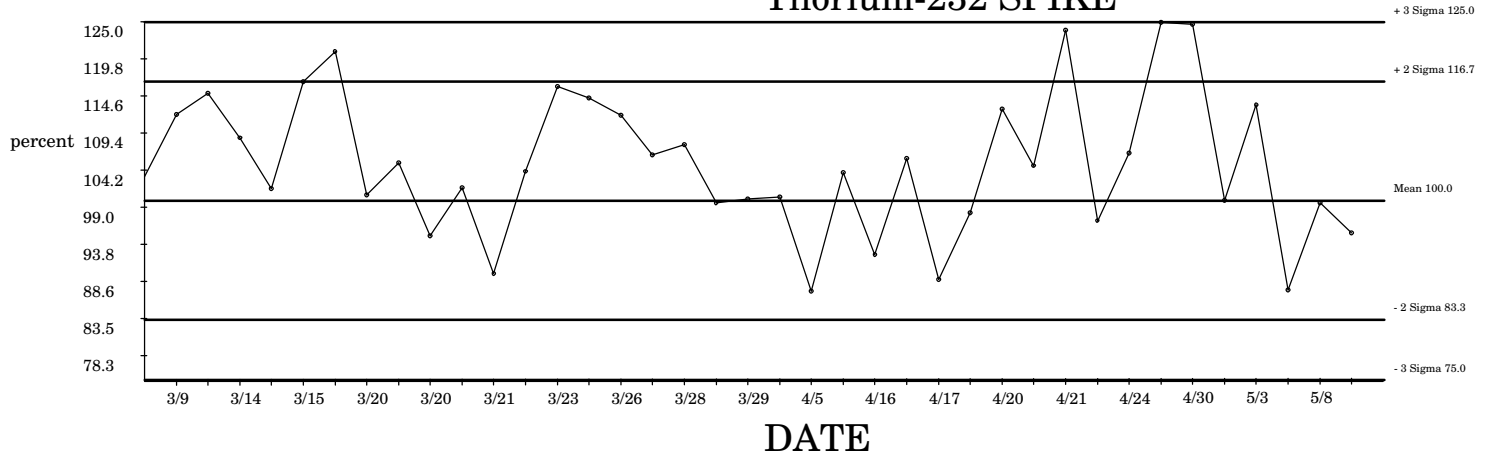
○ Denotes Outlier

SPC Graph for Alpha SpecThorium in Liquids 5/9/2007 Thorium-232 BLANK



○ Denotes Outlier

SPC Graph for Alpha SpecThorium in Liquids 5/9/2007 Thorium-232 SPIKE



○ Denotes Outlier

STANDARDS DATA

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

64123-278

Th-229 5 mL Liquid in Flame Sealed Vial

This standard radionuclide source was prepared gravimetrically from a calibrated master solution. The master solution was calibrated by liquid scintillation counting.

Radionuclide purity and calibration were checked by germanium gamma-ray spectrometry and liquid scintillation counting. The nuclear decay rate and assay date for this source are given below.

ANALYTICS maintains traceability to the National Institute of Standards and Technology through Measurements Assurance Programs as described in USNRC Reg. Guide 4.15, Revision 1.

ISOTOPE:	Th-229
ACTIVITY (dps):	4.280 E3
HALF-LIFE:	7340 years
CALIBRATION DATE:	July 17, 2002 12:00 EST
TOTAL UNCERTAINTY*:	3.5%
SYSTEMATIC:	2.6%
RANDOM:	0.9%

*99% confidence level.

Impurities:	Th-228	26.9 dps
	Th-230	26.5 dps
	Th-232	1.8 dps

5.04111 grams 0.5M HNO₃ solution.

P O NUMBER 3201RD, Item 1

SOURCE PREPARED BY:

M. D. Currie
M. D. Currie, Radiochemist

Q A APPROVED:

J.M. Metz 7-17-02



Standard Traceability Log Rad

Source Material Info		A Solution Material Info	
Parent Code:	0486	Isotope:	Thorium-229
Prepared By:	Lonnie Morris	Prepared By:	Lonnie Morris
Carrier Conc:	0.5 M HNO3	Prep Date:	07/29/2002
Reference Date:	07/17/2002	Verification Date:	05/15/2006
Ampoule Mass (g):	5.04111 g	Expiration Date:	05/15/2007
Uncertainty:	+/- 3.5 %	Primary Code:	0486-A
LogBook No:	RC S 035 001	Dilution(mL):	100 mL
		Mass of Parent(g):	4.3829 g
		Density(g/mL):	1.0121

Calculations Converting parent activity to dpm/mL|dpm/g

$(\text{Mass of parent(g)}) * (\text{Parm Activity (dps)}) * (\text{conversion dpm to dps}) / (\text{Ampoule Mass(g)} * (\text{Dilution Vol})) = \text{Parent Activity (dpm/mL)}$
$(\text{Mass of parent(g)}) * (\text{Parm Activity (dps)}) * (\text{conversion dpm to dps}) / \text{Density} / (\text{Ampoule Mass (g)} * (\text{Dilution Vol})) = \text{Parent Activity (dpm/g)}$
$(4.3829 \text{ g}) * (4280 \text{ dps}) * (60 \text{ dpm/dps}) / (5.04111 \text{ g} * 100 \text{ mL}) = 2232.7002 \text{ dpm/mL}$
$(4.3829 \text{ g}) * (4280 \text{ dps}) * (60 \text{ dpm/dps}) / (1.0121 \text{ g/mL}) / (5.04111 \text{ g} * 100 \text{ mL}) = 2206.0732 \text{ dpm/g}$

Secondary Standards

Prep Date	Preparer	Mass Primary	Dilution (mL)	Code	Conc dpm/mL	Verification Date	Expiration Date
12/09/2003	Amanda Fehr	4.131	500	0486-H	18.2214 dpm/mL	12/08/2003	12/08/2004
07/15/2003	Angela Johnson	.7385	100	0486-F	16.2918 dpm/mL	07/15/2003	07/15/2004
01/02/2003	Angela Johnson	8.3862	1000	0486-D	18.501 dpm/mL	01/02/2003	01/02/2004
07/19/2005	Brenda Burke	4.133	500	0486-J	18.205 dpm/mL	08/29/2006	08/29/2007
08/06/2002	Lonnie Morris	.7042	100	0486-B	15.5352 dpm/mL	08/06/2002	08/06/2003
12/06/2002	Angela Johnson	.7048	100	0486-C	15.548 dpm/mL	12/06/2002	12/06/2003
06/01/2003	Lonnie Morris	.7203	100	0486-E	15.8903 dpm/mL	06/01/2003	06/01/2004
05/05/2006	Mary Aders	8.3042	1000	0486-L	18.2891 dpm/mL	05/15/2006	05/15/2007
10/13/2005	Mary Aders	4.2256	500	0486-K	18.6129 dpm/mL	10/20/2005	10/20/2006
08/12/2003	Amanda Fehr	4.125	500	0486-G	18.2 dpm/mL	08/12/2003	08/12/2004
07/20/2004	Amanda Fehr	8.43	1000	0486-I	18.5972 dpm/mL	07/20/2005	07/20/2006

Verification for Th-229 Standard 0486-L

M. Avins 5/16/2006	Isotope	Value	Uncertainty
	0486-L #1	0.832	0.1560
	0486-L #2	0.763	0.1430
	0486-L #3	0.793	0.1920
Mean Value (Counting) =	0.796	0.9665637	Pass
Stdev =	0.034597688		Rule 3 (Pass/Fail)
Target =	0.82		
Lower Limit =	0.726804624		
Upper Limit =	0.865195376		
Rule 1 Pass/Fail	Pass		
Two sigma =	0.069195376		
10 % of Mean =	0.0796		
Rule 2 (Pass/Fail)	Pass		

Rule 1 = The certificate value (NOT including any uncertainty) shall lie within the 95% confidence interval determined from the mean and two sigma standard deviation of the three measurements

Rule 2 = The two sigma value used for the 95% confidence interval shall not exceed 10% of the mean value of the three verification measurements.

Rule 3 = The determined mean value shall be within 10% of the certificate value.

The analyst prepared three standard verification sources for standard 0486-L using 0.1 mL for each source. Each standard was combined with 0.1 mL of Th-232 standard 0700-B and 100 micrograms of neodymium carrier in a disposable centrifuge tube containing 4 mL of 2 M HCl and 2 mL of DI water. Two mL of 48% HF was added to precipitate neodymium (and Thorium) fluoride. After 30 minutes, each sample was filtered following routine procedures for alpha spectroscopy source preparation. Each source was counted using routine alpha spec procedures. DPM values for Th-229 were calculated by comparison to Th-232 certified values.

Mary D. Jones
5/16/06

CERTIFICATE OF CALIBRATION
Standard Radionuclide Source

1066

74379-278

Th-Nat 5 mL Liquid in Flame Sealed Vial

This standard radionuclide source was prepared gravimetrically from a calibrated master solution. The master solution was calibrated by alpha spectrometry and a Th-230 tracer.

Radionuclide purity and calibration were checked using a germanium gamma spectrometer system. The nuclear decay rate and assay date for this source are given below.

ANALYTICS maintains traceability to the National Institute of Standards and Technology through Measurements Assurance Programs as described in USNRC Reg. Guide 4.15, Revision 1.

CALIBRATION DATE: January 23, 2007 12:00 EST

ISOTOPE:	Th-232	Th-228	Th-230
ACTIVITY (Bq):	7.840 E1	7.820 E1	3.150 E1
HALF-LIFE:	1.405 E10 y	698.3 d	7.538 E4 y
RELATIVE EXPANDED UNCERTAINTY (k=2):	3.3%	3.3%	3.3%

Impurities: γ -impurities <0.1%

5.03117 grams 0.5M HNO₃ solution with 3.8 mg/g Th.

P O NUMBER 2738RD, Item 1

SOURCE PREPARED BY:

M. Dimitrova
M. Dimitrova, Radiochemist

Q A APPROVED:

M. M. J. 1-25-07

RECEIVED
1/29/07



Standard Traceability Log Rad

Source Material Info		A Solution Material Info	
Parent Code:	1066	Isotope:	Thorium-232
Prepared By:	Daniel Roy	Prepared By:	Daniel Roy
Carrier Conc:	0.5 M HNO3	Prep Date:	01/23/2007
Reference Date:	01/23/2007	Verification Date:	03/07/2007
Ampoule Mass (g):	5.03117 g	Expiration Date:	03/07/2008
Uncertainty:	+/- 3.3 %	Primary Code:	1066-A
LogBook No:	RC-S-045-107	Dilution(mL):	100 mL
		Mass of Parent(g):	4.8425 g
		Density(g/mL):	1.0133

Calculations Converting parent activity to dpm/mL|dpm/g

$$(\text{Mass of parent(g)}) * (\text{Parm Activity (bq)}) * (\text{conversion dpm to bq}) / (\text{Ampoule Mass(g)} * (\text{Dilution Vol})) = \text{Parent Activity (dpm/mL)}$$

$$(\text{Mass of parent(g)}) * (\text{Parm Activity (bq)}) * (\text{conversion dpm to bq}) / \text{Density} / (\text{Ampoule Mass (g)} * (\text{Dilution Vol})) = \text{Parent Activity (dpm/g)}$$

$$(4.8425 \text{ g}) * (78.4 \text{ bq}) * (60 \text{ dpm/bq}) / (5.03117 \text{ g} * 100 \text{ mL}) = 45.2760 \text{ dpm/mL}$$

$$(4.8425 \text{ g}) * (78.4 \text{ bq}) * (60 \text{ dpm/bq}) / (1.0133 \text{ g/mL}) / (5.03117 \text{ g} * 100 \text{ mL}) = 44.6796 \text{ dpm/g}$$

Secondary Standards

Prep Date	Preparer	Mass Primary	Dilution (mL)	Code	Conc dpm/mL	Verification Date	Expiration Date
03/01/2007	Daniel Roy	100.21	250	1066-B	17.9093 dpm/ml	03/07/2007	03/07/2008

GEL Laboratories LLC
Version 1.0 9/18/2000

Verification for Thorium-232 Standard 1066-B

D. Roy 3/7/2007	Isotope	Value	Uncertainty
	1066-B N1	0.861	0.1380
	1066-B N2	0.848	0.1270
	1066-B N3	0.810	0.0890
Mean Value (Counting) =	0.840	104.08335	Pass
Stdev =	0.026501572		Rule 3 (Pass/Fail)
Target =	0.81		
Lower Limit =	0.786663522		
Upper Limit =	0.892669811		
Rule 1 Pass/Fail	Pass		
Two sigma =	0.053003145		
10 % of Mean =	0.083966667		
Rule 2 (Pass/Fail)	Pass		

Rule 1 = The certificate value (NOT including any uncertainty) shall lie within the 95% confidence interval determined from the mean and two sigma standard deviation of the three measurements

Rule 2 = The two sigma value used for the 95% confidence interval shall not exceed 10% of the mean value of the three verification measurements.

Rule 3 = The determined mean value shall be within 10% of the certificate value.

The analyst prepared three standard verification sources for standard 1066-B using 0.1 mL for each source. Each standard was combined with 0.1 mL of *Th-229* standard *0486-L* and 50 micrograms of Nd carrier in a disposable centrifuge tube. Four mL of 2 M HCl was added to each standard and then diluted with 4 mL of DI water. Two mL of 48% HF was added to precipitate Nd (and *Thorium*) fluoride. After 30 minutes, each sample was filtered following routine procedures for alpha spectroscopy source preparation. Each source was counted using routine alpha spec procedures. DPM values for *Th-232* were calculated by comparison to *Th-229* certified values.

David D. Roy 3/8/07
May G. Jones 3/7/07

RUNLOGS



Instrument Run Log

ID	Sample Type	Analyst	Instrument	Dil	Run Date	Batch Id	Status	Geometry	Cal Date
184428001	SAMPLE	BXJ1	1043		02-MAY-2007 12:16	628506	DUSE		
184428003	SAMPLE	BXJ1	1045		02-MAY-2007 12:16	628506	DONE		
184428004	SAMPLE	BXJ1	1032		02-MAY-2007 15:19	628506	DONE		
184428005	SAMPLE	BXJ1	1033		02-MAY-2007 15:19	628506	DONE		
184428006	SAMPLE	BXJ1	1021		03-MAY-2007 09:44	628506	DONE		
184428007	SAMPLE	BXJ1	1022		03-MAY-2007 09:44	628506	DONE		
184428008	SAMPLE	BXJ1	1023		03-MAY-2007 09:44	628506	DONE		
184428009	SAMPLE	BXJ1	1024		03-MAY-2007 09:44	628506	DONE		
1201322488	MB	BXJ1	1071		03-MAY-2007 10:10	628506	DONE		
1201322489	DUP	BXJ1	1072		03-MAY-2007 10:10	628506	DONE		
1201322490	LCS	BXJ1	1073		03-MAY-2007 10:10	628506	DONE		
184428002	SAMPLE	BXJ1	1015		09-MAY-2007 16:48	628506	DONE		
184428001	SAMPLE	BXJ1	1014		09-MAY-2007 16:48	628506	DONE		

Version 1.1 9/5/05
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