GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178

www.gel.com

November 05, 2013

Mr. Eric Gilstrap
Missouri Department of Natural Resources
917 N. Highway 67
Suite 104
Florissant, Missouri 63031

Re: Eberline|State of Missouri DNR (C310163001)
Work Order: 335304

Dear Mr. Gilstrap:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 10, 2013. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

Sincerely,

Heather Shaffer

Heather Shaffer
Project Manager

Purchase Order: OR-1303010
Enclosures

Eberline Services OR-1303010
Eberline|State of Missouri DNR (C310163001)
SDG: 335304

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Case Narrative

Case Narrative
for
Eberline Services OR-1303010
SDG: 335304

November 05, 2013

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 October 10, 2013 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification The laboratory received the following samples:

Laboratory ID	Client ID
335304001	WLL20131007A3
335304002	WLL20131007A4
335304003	WLL20131007B3
335304004	WLL20131007B4
335304005	WLL20131007C3
335304006	WLL20131007C4
335304007	WLL20131007D3
335304008	WLL20131007D4
335304009	WLL20131008E3
335304010	WLL20131008E4
335304011	WLL20131008F3
335304012	WLL20131008F4
335304013	WLL20131008G3
335304014	WLL20131008G4
335304015	WLL20131008H3
335304016	WLL20131008H4
335304017	WLL20131008I3
335304018	WLL20131008I4
335304019	WLL20131009L3
335304020	WLL20131009L4
335304021	WLL20131008J3
335304022	WLL20131008J4
335304023	WLL20131008K3
335304024	WLL20131008K4

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: General Narrative, Chain of Custody and Supporting Documentation, and data from the following fractions: Metals.

Heather Shaffer

Heather Shaffer
Project Manager

Chain of Custody

Page: 1 of 4
Project #: NJ09WLAK
GEL Quote #:
COC Number (1):
PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 335304

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: MDNR HWP FFS Phone #: 314-877-3046
Project/Site Name: West Lake Landfill Fax #:
Address: 917 N Hwy 67 Ste 104
Collected by: Shawn Muenks Send Results To: Rita Alexander

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	TSCA Regulated	Total number of containers	Metals 6010B									<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
WLL20131007 A3 ~~A3~~	10/07/13	1258	N		GW			1	1									HNO3 <4°C	
WLL20131007 A4	10/7/13	1258	N	✓	GW			1	1									HNO3 <4°C	
WLL20131007 B3	10/7/13	1217	N		GW			1	1									HNO3 <4°C	
WLL20131007 B4	10/7/13	1217	N	✓	GW			1	1									HNO3 <4°C	
WLL20131007 C3	10/7/13	1327	N		GW			1	1									HNO3 <4°C	
WLL20131007 C4	10/7/13	1327	N	✓	GW			1	1									HNO3 <4°C	
WLL20131007 D3	10/7/13	1501	N		GW			1	1									HNO3 <4°C	
WLL20131007 D4	10/7/13	1501	N	✓	GW			1	1									HNO3 <4°C	

TAT Requested: Normal: X Rush: ____ Specify: ____ (Subject to Surcharge) Fax Results: Yes / No Email rita.alexander@dnr.mo.gov
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: Eastern, Central, Mountain, Pacific, Other ____

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Shawn Muenks	10/7/13	1651	1 P. Wport	10-10-13	0905
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM:
Method of Shipment: Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite
3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.
4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).
6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: 3.4 C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

Page: 2 of 4

Project #: NJ09WLAK
GEL Quote #:
COC Number (1):
PO Number:

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number: 335304

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: MDNR HWP FFS
Phone #: 314-877-3046

Project/Site Name: West Lake Landfill
Fax #:

Address: 917 N. Hwy 67 Suite 104 Florissant, MO 63031

Collected by: Shawn Muenks
Send Results To: Rita Alexander (rita.alexander@dnr.mo.gov)

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	METALS 6010B										<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
WLL20131008E3	10/8/2013	1015	N	N	GW				1										HNO3 4 degrees C	
WLL201310008E4	10/8/2013	1015	N	Y	GW				1										HNO3 4 degrees C	
WLL20131008F3	10/8/2013	1110	N	N	GW				1										HNO3 4 degrees C	
WLL20131008F4	10/8/2013	1110	N	Y	GW				1										HNO3 4 degrees C	
WLL20131008G3	10/8/2013	1202	N	N	GW				1										HNO3 4 degrees C	
WLL20131008G4	10/8/2013	1202	N	Y	GW				1										HNO3 4 degrees C	
WLL20131008H3	10/8/2013	1540	N	N	GW				1										HNO3 4 degrees C	
WLL20131008H4	10/8/2013	1540	N	Y	GW				1										HNO3 4 degrees C	
WLL2013100813	10/8/2013	1420	N	N	GW				1										HNO3 4 degrees C	
WLL2013100814	10/8/2013	1420	N	Y	GW				1										HNO3 4 degrees C	

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge)
Fax Results: Yes / No
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: Eastern / Central / Mountain / Pacific / Other _____

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Shawn Muenks	10/8/13	1632	1 P. Dent	10-10-13	09:45
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM:
Method of Shipment: Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite
3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.
4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=N
5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).
6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? *YES* *NO*
Cooler Temp: 3.4 C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

Page: 3 of 7

Project #: NJ09WLAK
GEL Quote #:
COC Number (1):
PO Number:

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number: 335384

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: MDNR HWP FFS | Phone #: 314-877-3046

Project/Site Name: West Lake Landfill | Fax #:

Address: 917 N. Hwy 67 Suite 104 Florissant, MO 63031

Collected by: Shawn Muenks | Send Results To: Rita Alexander (rita.alexander@dnr.mo.gov)

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	METALS 6010B	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
WLL20131009L3	10/9/2013	955	N	N	GW				1	HNO3 4 degrees C	
WLL201310009L4	10/9/2013	955	N	Y	GW				1	HNO3 4 degrees C	

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge) | Fax Results: Yes / No | Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: Eastern Pacific Central Other _____ Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Shawn Muenks	10/8/13	1632	1 P. Albert	10.10.13	09:05
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM:
Method of Shipment: | Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite
3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.
4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=N
5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).
6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? *YES* *NO*
Cooler Temp: 3.4 C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

Page: 1 of 1

Project #: NJ09WLAK
GEL Quote #:
COC Number (1):
PO Number:

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number: 335304

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: MDNR HWP FFS
Phone #: 314-877-3046
Project/Site Name: West Lake Landfill
Fax #:
Address: 917 N. Hwy 67 Suite 104 Florissant, MO 63031
Collected by: Shawn Muenks
Send Results To: Rita Alexander (rita.alexander@dnr.mo.gov)

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	METALS 6010B										<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
WLL20131008J3	10/8/2013	1450	N	N	GW				1											HNO3 4 degrees C
WLL201310008J4	10/8/2013	1450	N	Y	GW				1											HNO3 4 degrees C
WLL20131008K3	10/8/2013	1505	N	N	GW				1											HNO3 4 degrees C
WLL20131008K4	10/8/2013	1505	N	Y	GW				1											HNO3 4 degrees C

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge)
Fax Results: Yes / No
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: Eastern Pacific Central Other _____ Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Shawn Muenks	10/9/13	1154	1 P. Klent	10.10.13	09:25
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM:
Method of Shipment: Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=N
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? *YES* *NO*
Cooler Temp: 3,4 C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: MDNR	SDG/AR/COC/Work Order: 335304
Received By: P. Nent	Date Received: Oct. 10, 2013

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM
Classified Radioactive II or III by RSO?		X	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		X	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		X	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	X			Preservation Method: Ice bags Blue ice Dry ice None Other (describe) 3.4C *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): 130462966
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	X			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Sample ID's affected:
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	X			
13	COC form is properly signed in relinquished/received sections?	X			
14	Carrier and tracking number.				PD 10-10-13 Circle Applicable: ~~FedEx Air~~ FedEx Ground UPS Field Services Courier Other 12 R04 0W6 01 9096 7940-4 12 R04 0W6 01 9031 7535-3

Comments (Use Continuation Form if needed):

OP 10-11-13 page 1 of 1

Laboratory Certifications

List of current GEL Certifications as of 05 November 2013

State	Certification
Alaska	UST−110
Arkansas	88−0651
CLIA	42D0904046
California NELAP	01151CA
Colorado	SC00012
Connecticut	PH−0169
Delaware	SC000122013−10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330−12−00283, P330−12−00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013−10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C−SC−01
Kansas NELAP	E−10332
Kentucky	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA130005
Maryland	270
Massachusetts	M−SC012
Michigan	9976
Mississippi	SC000122013−10
Nebraska	NE−OS−26−13
Nevada	SC000122013−2
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68−00485
Plant Material Permit	PDEP−12−00260
South Carolina Chemistry	10120001
South Carolina GVL	23611001
South Carolina Radiochemi	10120002
Tennessee	TN 02934
Texas NELAP	T104704235−13−8
Utah NELAP	SC000122013−11
Vermont	VT87156
Virginia NELAP	460202
Washington	C780−12
Wisconsin	999887790

Metals Analysis

Case Narrative

Metals Fractional Narrative
Eberline Services OR-1303010 (EBER)
SDG 335304

Sample Analysis

Sample ID	Client ID
335304001	WLL20131007A3
335304002	WLL20131007A4
335304003	WLL20131007B3
335304004	WLL20131007B4
335304005	WLL20131007C3
335304006	WLL20131007C4
335304007	WLL20131007D3
335304008	WLL20131007D4
335304009	WLL20131008E3
335304010	WLL20131008E4
335304011	WLL20131008F3
335304012	WLL20131008F4
335304013	WLL20131008G3
335304014	WLL20131008G4
335304015	WLL20131008H3
335304016	WLL20131008H4
335304017	WLL20131008I3
335304018	WLL20131008I4
335304019	WLL20131009L3
335304020	WLL20131009L4
335304021	WLL20131008J3
335304022	WLL20131008J4
335304023	WLL20131008K3
335304024	WLL20131008K4
1202969089	Method Blank (MB) **ICP**
1202969094	Method Blank (MB) **ICP**
1202969090	Laboratory Control Sample (LCS)
1202969095	Laboratory Control Sample (LCS)
1202969093	335304001(WLL20131007A3L) Serial Dilution (SD)
1202969098	335304011(WLL20131008F3L) Serial Dilution (SD)

1202969091	335304001(WLL20131007A3D) Sample Duplicate (DUP)
1202969096	335304011(WLL20131008F3D) Sample Duplicate (DUP)
1202969092	335304001(WLL20131007A3S) Matrix Spike (MS)
1202969097	335304011(WLL20131008F3S) Matrix Spike (MS)

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

Method/Analysis Information

Analytical Batch:	1339673 and 1339675
Prep Batch :	1339672 and 1339674
Standard Operating Procedures:	GL-MA-E-013 REV# 22 and GL-MA-E-006 REV# 9
Analytical Method:	SW846 3005/6010B
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 5300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The Metals analysis-ICP was performed on a PE 7300 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.

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 potassium, which recovered outside of the advisory limits of 70-130%.

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

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

Continuing Calibration Verification (CCV) Requirements
All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement
The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement
The following samples were selected as the quality control (QC) samples for this SDG: 335304001 (WLL20131007A3) and 335304011 (WLL20131008F3)-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 relative percent difference (RPD) obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is >5X the contract required reporting limit (RL). In cases where either the sample or duplicate value is less than 5X the contract required detection limit (RL), a control of +/-RL is used to evaluate the DUP results. All applicable analytes met these requirements, with the exceptions of Nickel.

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

Technical Information

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

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 335304007, 335304009, 335304010, 335304011, 335304012, 335304013, 335304014, 335304015, 335304016, 335304017, 335304018, 335304019, 335304020, 335304021, 335304022, 335304023, 335304024 and associated matrix QCs required dilutions, for Tin, in order to minimize suppression due to matrix interferences. Samples 335304005 and 335304006 required dilutions because Sodium was over the linear calibration range of the instrument and affects our ability to ensure that the inter-element correction factors were valid for Potassium.

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

Miscellaneous Information

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

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative will include the data validator's signature and title. The signature page also includes the data qualifiers used in the fractional package. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation
Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DER was generated for this SDG: 1239891. A copy is included in the Miscellaneous Data section of this package.

Additional Comments
Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Bryan Davis **Date:** 11-8-13

Sample Data Summary

GEL LABORATORIES LLC

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

Qualifier Definition Report
for

EBER001 Eberline Services OR-1303010

Client SDG: 335304 GEL Work Order: 335304

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

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, Heather Shaffer.

Reviewed by Bryan Davis 11-8-13

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304001 **CLIENT ID:** WLL20131007A3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	9.43	ug/L	B		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	600	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	634	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	117000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	12.5	ug/L			P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	3.27	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	8300	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	63600	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	169	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	30.7	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	123	ug/L	B		P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	15400	ug/L			P	50	1	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	27600	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	114000	ug/L			P	100	1	OPTIMA4	110613−2
7440−24−6	Strontium	886	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA4	110613−2

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304001 **CLIENT ID:** WLL20131007A3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	10.8	ug/L			P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	7.28	ug/L	B		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304002 **CLIENT ID:** WLL20131007A4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	10.6	ug/L	B		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	577	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	599	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	107000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	11.7	ug/L			P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	3.09	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	7920	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	58700	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	152	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	29.1	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	95.9	ug/L	B		P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	16100	ug/L			P	50	1	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	25200	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	116000	ug/L			P	100	1	OPTIMA4	110613−2
7440−24−6	Strontium	822	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA4	110613−2

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304002 **CLIENT ID:** WLL20131007A4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	10.1	ug/L			P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304003 **CLIENT ID:** WLL20131007B3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	73.9	ug/L	B		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	5.15	ug/L	B		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5.94	ug/L	B		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	2340	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	1540	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	248000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	6.42	ug/L			P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	31100	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	73100	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	518	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	14.8	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	713	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	29300	ug/L			P	50	1	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	34000	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	360000	ug/L			P	100	1	OPTIMA4	110613−2
7440−24−6	Strontium	907	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	2.52	ug/L	B		P	2.5	1	OPTIMA4	110613−2

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304003 **CLIENT ID:** WLL20131007B3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	11.4	ug/L	B		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1.21	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304004 **CLIENT ID:** WLL20131007B4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	2530	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	1660	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	282000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	7.26	ug/L			P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	34700	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	81700	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	558	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	15.5	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	770	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	29600	ug/L			P	50	1	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	36500	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1.1	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	367000	ug/L			P	100	1	OPTIMA4	110613−2
7440−24−6	Strontium	996	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	2.82	ug/L	B		P	2.5	1	OPTIMA4	110613−2

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304004 **CLIENT ID:** WLL20131007B4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1.37	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304005 **CLIENT ID:** WLL20131007C3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	72.5	ug/L	B		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	8	ug/L	B		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	22.3	ug/L	B		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	604	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	3240	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	50300	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	6.38	ug/L			P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	13.1	ug/L			P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	5.91	ug/L	B		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	18000	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	6.2	ug/L	B		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	66000	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	149	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	3.43	ug/L	B		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	69.4	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	5980	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	242000	ug/L			P	250	5	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	34900	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	516000	ug/L			P	500	5	OPTIMA4	110613−2
7440−24−6	Strontium	340	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	27.3	ug/L			P	2.5	1	OPTIMA4	110613A−4

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304005 **CLIENT ID:** WLL20131007C3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	17.7	ug/L	B		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	4.01	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	44.5	ug/L			P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304006 **CLIENT ID:** WLL20131007C4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	7.25	ug/L	B		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	15.1	ug/L	B		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	583	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	3280	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	48300	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	5.87	ug/L			P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	9	ug/L			P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	15300	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	63700	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	130	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	42	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	5390	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	241000	ug/L			P	250	5	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	34700	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	524000	ug/L			P	500	5	OPTIMA4	110613−2
7440−24−6	Strontium	329	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	22	ug/L			P	2.5	1	OPTIMA4	110613A−4

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304006 **CLIENT ID:** WLL20131007C4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	14	ug/L	B		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	3.97	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	9.24	ug/L	B		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304007 **CLIENT ID:** WLL20131007D3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5.35	ug/L	B		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	2270	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	1470	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	281000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	5.6	ug/L			P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	36500	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	88200	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	648	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	15.6	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	741	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	25300	ug/L			P	50	1	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	38600	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1.03	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	334000	ug/L			P	100	1	OPTIMA4	110613−2
7440−24−6	Strontium	978	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	50	ug/L	U		P	50	20	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304007 **CLIENT ID:** WLL20131007D3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304008 **CLIENT ID:** WLL20131007D4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	4.2	ug/L	B		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	2220	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	1430	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	281000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	5.23	ug/L			P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	35900	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	87400	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	627	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	15.1	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	718	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	25000	ug/L			P	50	1	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	37700	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	334000	ug/L			P	100	1	OPTIMA4	110613−2
7440−24−6	Strontium	974	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	2.5	ug/L	U		P	2.5	1	OPTIMA4	110613A−4

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304008 **CLIENT ID:** WLL20131007D4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1.13	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304009 **CLIENT ID:** WLL20131008E3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	1890	ug/L			P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	323	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	115	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	108000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1.47	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	1.68	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	2840	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	41500	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	250	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	4.13	ug/L	B		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	4.26	ug/L	B	*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	148	ug/L	B		P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	3390	ug/L			P	50	1	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	24600	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	23300	ug/L			P	100	1	OPTIMA4	110613−2
7440−24−6	Strontium	842	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	12.5	ug/L	U		P	12.5	5	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304009 **CLIENT ID:** WLL20131008E3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	13.6	ug/L	B		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	5.95	ug/L			P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	13	ug/L			P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304010 **CLIENT ID:** WLL20131008E4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	108	ug/L	B		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	4.69	ug/L	B		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	335	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	114	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	111000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	880	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1
7439−95−4	Magnesium	42400	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	210	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	4.28	ug/L	B		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	1.73	ug/L	B	*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	60	ug/L	U		P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	3250	ug/L			P	50	1	OPTIMA4	110613−2
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	19800	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	24700	ug/L			P	100	1	OPTIMA4	110613−2
7440−24−6	Strontium	860	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	12.5	ug/L	U		P	12.5	5	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304010 **CLIENT ID:** WLL20131008E4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	19.5	ug/L	B		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304011 **CLIENT ID:** WLL20131008F3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	5.19	ug/L	B		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	560	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	817	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	158000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	1.52	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	6.47	ug/L	B		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	1740	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	4.84	ug/L	B		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	94500	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	81.4	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	19.1	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	105	ug/L	B		P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	14800	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	37200	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	116000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	2320	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304011 **CLIENT ID:** WLL20131008F3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	3.44	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	4.94	ug/L	B		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304012 **CLIENT ID:** WLL20131008F4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	8.37	ug/L	B		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	543	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	782	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	159000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	1.55	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	1100	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	7.8	ug/L	B		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	94300	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	69	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	11.3	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	79.6	ug/L	B		P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	14400	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	36200	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	109000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	2300	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304012 **CLIENT ID:** WLL20131008F4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	3.93	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304013 **CLIENT ID:** WLL20131008G3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	85.4	ug/L	B		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	5.91	ug/L	B		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1740	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	712	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	111000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	16400	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	4.24	ug/L	B		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	42300	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	423	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	3.75	ug/L	B	*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	606	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	45100	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	33700	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	62300	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	738	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304013 **CLIENT ID:** WLL20131008G3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	14.7	ug/L	B		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1.29	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	8.44	ug/L	B		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304014 **CLIENT ID:** WLL20131008G4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1720	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	710	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	110000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	16300	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	42300	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	404	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	2.71	ug/L	B	*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	597	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	44900	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	33100	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	62200	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	732	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304014 **CLIENT ID:** WLL20131008G4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304015 **CLIENT ID:** WLL20131008H3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1310	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	856	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	215000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	1.84	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	17500	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	58700	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	502	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	9.74	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	509	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	13100	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	32700	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1.43	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	137000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	758	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304015 **CLIENT ID:** WLL20131008H3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304016 **CLIENT ID:** WLL20131008H4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	4.04	ug/L	B		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1320	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	857	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	215000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	2.16	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	17600	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	59000	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	500	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	9.59	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	508	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	13200	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	32600	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	138000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	755	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304016 **CLIENT ID:** WLL20131008H4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304017 **CLIENT ID:** WLL20131008I3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	20	ug/L	B		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1460	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	1410	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	246000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	2.33	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	33400	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	69800	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	1040	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2.29	ug/L	B		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	8.61	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	755	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	19700	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	36800	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1.3	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	203000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	1010	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304017 **CLIENT ID:** WLL20131008I3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.5	ug/L	B		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304018 **CLIENT ID:** WLL20131008I4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	22.3	ug/L	B		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1480	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	1450	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	252000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	2.27	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	33200	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	71100	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	1070	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	3.1	ug/L	B		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	8.39	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	738	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	20400	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	37500	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	212000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	1040	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	50	ug/L	U		P	50	20	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304018 **CLIENT ID:** WLL20131008I4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304019 **CLIENT ID:** WLL20131009L3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	2500	ug/L			P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	41.2	ug/L			P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1740	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	243	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	305000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	5.31	ug/L			P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	16.1	ug/L			P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	6.39	ug/L	B		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	72100	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	18.8	ug/L			P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	77200	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	1790	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	37.2	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	2020	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	8160	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	47900	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	152000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	737	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304019 **CLIENT ID:** WLL20131009L3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	15.2	ug/L			P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	78	ug/L			P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304020 **CLIENT ID:** WLL20131009L4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	40.5	ug/L			P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1510	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	250	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	255000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	2.28	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	53300	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	65600	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	965	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	5.31	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	327	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	8400	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	41800	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1.57	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	158000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	695	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	50	ug/L	U		P	50	20	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304020 **CLIENT ID:** WLL20131009L4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1.06	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304021 **CLIENT ID:** WLL20131008J3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	208	ug/L			P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1200	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	1010	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	275000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	5.17	ug/L	B		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	21500	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	77800	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	485	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	15.8	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	668	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	16800	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	37100	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	193000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	1060	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304021 **CLIENT ID:** WLL20131008J3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	5.84	ug/L	B		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304022 **CLIENT ID:** WLL20131008J4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	6.21	ug/L	B		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	1300	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	1060	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	275000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	1.69	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	21100	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	79700	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	437	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	2	ug/L	U		P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	8.24	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	649	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	16500	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	39100	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1.3	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	197000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	1050	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304022 **CLIENT ID:** WLL20131008J4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304023 **CLIENT ID:** WLL20131008K3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	68	ug/L	U		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	218	ug/L			P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	867	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	2570	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	188000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	6.28	ug/L			P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	36900	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	5.11	ug/L	B		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	74200	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	1490	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	11.9	ug/L			P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	30	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	735	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	17900	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	44000	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	266000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	1280	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304023 **CLIENT ID:** WLL20131008K3

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1.27	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	3.3	ug/L	U		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304024 **CLIENT ID:** WLL20131008K4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7429−90−5	Aluminum	131	ug/L	B		P	68	1	OPTIMA3	110513A−1
7440−36−0	Antimony	3.5	ug/L	U		P	3.5	1	OPTIMA3	110513A−1
7440−38−2	Arsenic	219	ug/L			P	5	1	OPTIMA3	110513A−1
7440−39−3	Barium	867	ug/L			P	1	1	OPTIMA3	110513A−1
7440−41−7	Beryllium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−42−8	Boron	2530	ug/L			P	15	1	OPTIMA3	110513A−1
7440−43−9	Cadmium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−70−2	Calcium	177000	ug/L			P	50	1	OPTIMA3	110513A−1
7440−47−3	Chromium	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−48−4	Cobalt	6.76	ug/L			P	1	1	OPTIMA3	110513A−1
7440−50−8	Copper	3	ug/L	U		P	3	1	OPTIMA3	110513A−1
7439−89−6	Iron	35200	ug/L			P	30	1	OPTIMA3	110513A−1
7439−92−1	Lead	3.3	ug/L	U		P	3.3	1	OPTIMA4	110613A−4
7439−95−4	Magnesium	69800	ug/L			P	110	1	OPTIMA3	110513A−1
7439−96−5	Manganese	1460	ug/L			P	2	1	OPTIMA3	110513A−1
7439−98−7	Molybdenum	11.4	ug/L			P	2	1	OPTIMA3	110513A−1
7440−02−0	Nickel	32.1	ug/L		*	P	1.5	1	OPTIMA3	110513A−1
7723−14−0	Phosphorous	770	ug/L			P	60	1	OPTIMA3	110513A−1
7440−09−7	Potassium	18400	ug/L			P	50	1	OPTIMA4	110613A−4
7782−49−2	Selenium	6	ug/L	U		P	6	1	OPTIMA3	110513A−1
7631−86−9	Silica	43900	ug/L			P	53	1	OPTIMA3	110513A−1
7440−22−4	Silver	1	ug/L	U		P	1	1	OPTIMA3	110513A−1
7440−23−5	Sodium	274000	ug/L			P	100	1	OPTIMA4	110613A−4
7440−24−6	Strontium	1210	ug/L			P	1	1	OPTIMA3	110513A−1
7440−28−0	Thallium	5	ug/L	U		P	5	1	OPTIMA3	110513A−1
7440−31−5	Tin	25	ug/L	U		P	25	10	OPTIMA4	110713−3

METALS
−1−
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 335304 **METHOD TYPE:** SW846

SAMPLE ID: 335304024 **CLIENT ID:** WLL20131008K4

CONTRACT: MDNR00101

MATRIX: Ground Water **DATE RECEIVED** 10−OCT−13 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M*	MDL	DF	Inst ID	Analytical Run
7440−61−1	Uranium	10	ug/L	U		P	10	1	OPTIMA3	110513A−1
7440−62−2	Vanadium	1.2	ug/L	B		P	1	1	OPTIMA3	110513A−1
7440−66−6	Zinc	4.91	ug/L	B		P	3.3	1	OPTIMA3	110513A−1

***Analytical Methods:**

P **SW846 3005/6010B**

Quality Control Summary

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
ICV01										
	Aluminum	5180	ug/L	5000	ug/L	103.6	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Antimony	488	ug/L	500	ug/L	97.6	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Arsenic	505	ug/L	500	ug/L	101	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Barium	509	ug/L	500	ug/L	101.8	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Beryllium	256	ug/L	250	ug/L	102.2	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Boron	500	ug/L	500	ug/L	100	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Cadmium	511	ug/L	500	ug/L	102.3	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Calcium	5230	ug/L	5000	ug/L	104.6	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Chromium	513	ug/L	500	ug/L	102.5	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Cobalt	510	ug/L	500	ug/L	102	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Copper	525	ug/L	500	ug/L	104.9	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Iron	5180	ug/L	5000	ug/L	103.6	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Lead	518	ug/L	500	ug/L	103.6	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Magnesium	5300	ug/L	5000	ug/L	105.9	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Manganese	512	ug/L	500	ug/L	102.5	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Molybdenum	490	ug/L	500	ug/L	97.9	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Nickel	506	ug/L	500	ug/L	101.2	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Phosphorous	2490	ug/L	2500	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Selenium	2540	ug/L	2500	ug/L	101.5	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Silica	10600	ug/L	10700	ug/L	99	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Silver	254	ug/L	250	ug/L	101.7	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Strontium	514	ug/L	500	ug/L	102.8	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Thallium	517	ug/L	500	ug/L	103.5	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Uranium	494	ug/L	500	ug/L	98.7	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Vanadium	509	ug/L	500	ug/L	101.8	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Zinc	516	ug/L	500	ug/L	103.2	90.0 − 110.0	P	05−NOV−13 08:26	110513A−1
	Potassium	2590	ug/L	2500	ug/L	103.5	90.0 − 110.0	P	06−NOV−13 07:04	110613−2
	Sodium	2680	ug/L	2500	ug/L	107	90.0 − 110.0	P	06−NOV−13 07:04	110613−2
	Tin	510	ug/L	500	ug/L	102	90.0 − 110.0	P	06−NOV−13 07:04	110613−2
	Lead	501	ug/L	500	ug/L	100.1	90.0 − 110.0	P	06−NOV−13 13:19	110613A−4

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Potassium	2600	ug/L	2500	ug/L	103.8	90.0 − 110.0	P	06−NOV−13 13:19	110613A−4
	Sodium	2590	ug/L	2500	ug/L	103.7	90.0 − 110.0	P	06−NOV−13 13:19	110613A−4
	Tin	489	ug/L	500	ug/L	97.8	90.0 − 110.0	P	06−NOV−13 13:19	110613A−4
	Tin	520	ug/L	500	ug/L	104	90.0 − 110.0	P	07−NOV−13 11:16	110713−3
CCV01										
	Aluminum	4970	ug/L	5000	ug/L	99.4	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Antimony	484	ug/L	500	ug/L	96.8	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Arsenic	487	ug/L	500	ug/L	97.4	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Barium	492	ug/L	500	ug/L	98.4	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Beryllium	488	ug/L	500	ug/L	97.5	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Boron	486	ug/L	500	ug/L	97.2	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Cadmium	488	ug/L	500	ug/L	97.7	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Calcium	4960	ug/L	5000	ug/L	99.2	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Chromium	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Cobalt	492	ug/L	500	ug/L	98.3	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Copper	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Lead	487	ug/L	500	ug/L	97.5	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Magnesium	5190	ug/L	5000	ug/L	103.7	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Manganese	488	ug/L	500	ug/L	97.6	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Molybdenum	492	ug/L	500	ug/L	98.4	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Nickel	493	ug/L	500	ug/L	98.7	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Phosphorous	2410	ug/L	2500	ug/L	96.2	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Selenium	492	ug/L	500	ug/L	98.5	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Silica	5190	ug/L	5350	ug/L	97	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Silver	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Strontium	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Thallium	492	ug/L	500	ug/L	98.4	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Uranium	452	ug/L	500	ug/L	90.5	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Vanadium	497	ug/L	500	ug/L	99.5	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Zinc	488	ug/L	500	ug/L	97.6	90.0 − 110.0	P	05−NOV−13 09:00	110513A−1
	Potassium	4910	ug/L	5000	ug/L	98.2	90.0 − 110.0	P	06−NOV−13 07:26	110613−2
	Sodium	9530	ug/L	10000	ug/L	95.3	90.0 − 110.0	P	06−NOV−13 07:26	110613−2
	Tin	486	ug/L	500	ug/L	97.3	90.0 − 110.0	P	06−NOV−13 07:26	110613−2
	Lead	496	ug/L	500	ug/L	99.2	90.0 − 110.0	P	06−NOV−13 13:41	110613A−4
	Potassium	5060	ug/L	5000	ug/L	101.1	90.0 − 110.0	P	06−NOV−13 13:41	110613A−4
	Sodium	9990	ug/L	10000	ug/L	99.9	90.0 − 110.0	P	06−NOV−13 13:41	110613A−4
	Tin	486	ug/L	500	ug/L	97.3	90.0 − 110.0	P	06−NOV−13 13:41	110613A−4
	Tin	500	ug/L	500	ug/L	99.9	90.0 − 110.0	P	07−NOV−13 11:37	110713−3
CCV02										
	Aluminum	4980	ug/L	5000	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Antimony	495	ug/L	500	ug/L	98.9	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Arsenic	498	ug/L	500	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Barium	502	ug/L	500	ug/L	100.3	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Beryllium	498	ug/L	500	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Boron	494	ug/L	500	ug/L	98.8	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Cadmium	501	ug/L	500	ug/L	100.2	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Calcium	5050	ug/L	5000	ug/L	101.1	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Chromium	500	ug/L	500	ug/L	100.1	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Cobalt	504	ug/L	500	ug/L	100.8	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Copper	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Iron	5120	ug/L	5000	ug/L	102.4	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Lead	504	ug/L	500	ug/L	100.7	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Magnesium	5200	ug/L	5000	ug/L	104	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Manganese	497	ug/L	500	ug/L	99.4	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Molybdenum	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Nickel	505	ug/L	500	ug/L	101	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Phosphorous	2480	ug/L	2500	ug/L	99.2	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Selenium	523	ug/L	500	ug/L	104.7	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Silica	5300	ug/L	5350	ug/L	99	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Silver	510	ug/L	500	ug/L	102.1	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Strontium	498	ug/L	500	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Thallium	504	ug/L	500	ug/L	100.9	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Uranium	462	ug/L	500	ug/L	92.4	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Vanadium	505	ug/L	500	ug/L	101	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Zinc	499	ug/L	500	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 09:10	110513A−1
	Potassium	4920	ug/L	5000	ug/L	98.4	90.0 − 110.0	P	06−NOV−13 07:45	110613−2
	Sodium	10000	ug/L	10000	ug/L	100.5	90.0 − 110.0	P	06−NOV−13 07:45	110613−2
	Tin	486	ug/L	500	ug/L	97.1	90.0 − 110.0	P	06−NOV−13 07:45	110613−2
	Lead	464	ug/L	500	ug/L	92.8	90.0 − 110.0	P	06−NOV−13 14:48	110613A−4
	Potassium	4840	ug/L	5000	ug/L	96.8	90.0 − 110.0	P	06−NOV−13 14:48	110613A−4
	Sodium	10500	ug/L	10000	ug/L	104.6	90.0 − 110.0	P	06−NOV−13 14:48	110613A−4
	Tin	464	ug/L	500	ug/L	92.9	90.0 − 110.0	P	06−NOV−13 14:48	110613A−4
	Tin	478	ug/L	500	ug/L	95.5	90.0 − 110.0	P	07−NOV−13 11:54	110713−3
CCV03										
	Aluminum	4970	ug/L	5000	ug/L	99.4	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Antimony	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Arsenic	499	ug/L	500	ug/L	99.8	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Barium	498	ug/L	500	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Beryllium	496	ug/L	500	ug/L	99.1	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Boron	489	ug/L	500	ug/L	97.9	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Cadmium	496	ug/L	500	ug/L	99.2	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Chromium	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Cobalt	500	ug/L	500	ug/L	100	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Copper	502	ug/L	500	ug/L	100.4	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Iron	5150	ug/L	5000	ug/L	102.9	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Lead	501	ug/L	500	ug/L	100.1	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Magnesium	5220	ug/L	5000	ug/L	104.3	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Manganese	494	ug/L	500	ug/L	98.9	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Molybdenum	501	ug/L	500	ug/L	100.3	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Nickel	502	ug/L	500	ug/L	100.5	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Phosphorous	2470	ug/L	2500	ug/L	98.9	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Selenium	512	ug/L	500	ug/L	102.3	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Silica	5260	ug/L	5350	ug/L	98.3	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Silver	509	ug/L	500	ug/L	101.8	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Strontium	504	ug/L	500	ug/L	100.8	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Thallium	504	ug/L	500	ug/L	100.8	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Uranium	470	ug/L	500	ug/L	93.9	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Vanadium	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Zinc	495	ug/L	500	ug/L	99	90.0 − 110.0	P	05−NOV−13 09:32	110513A−1
	Potassium	5000	ug/L	5000	ug/L	100	90.0 − 110.0	P	06−NOV−13 07:57	110613−2
	Sodium	10100	ug/L	10000	ug/L	101.1	90.0 − 110.0	P	06−NOV−13 07:57	110613−2
	Tin	484	ug/L	500	ug/L	96.9	90.0 − 110.0	P	06−NOV−13 07:57	110613−2
	Lead	483	ug/L	500	ug/L	96.5	90.0 − 110.0	P	06−NOV−13 14:59	110613A−4
	Potassium	5120	ug/L	5000	ug/L	102.4	90.0 − 110.0	P	06−NOV−13 14:59	110613A−4
	Sodium	10900	ug/L	10000	ug/L	108.6	90.0 − 110.0	P	06−NOV−13 14:59	110613A−4
	Tin	483	ug/L	500	ug/L	96.6	90.0 − 110.0	P	06−NOV−13 14:59	110613A−4
	Tin	482	ug/L	500	ug/L	96.5	90.0 − 110.0	P	07−NOV−13 12:09	110713−3
CCV04										
	Aluminum	5070	ug/L	5000	ug/L	101.5	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Antimony	494	ug/L	500	ug/L	98.8	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Arsenic	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Barium	501	ug/L	500	ug/L	100.3	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Beryllium	499	ug/L	500	ug/L	99.8	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Boron	492	ug/L	500	ug/L	98.4	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Cadmium	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Calcium	5020	ug/L	5000	ug/L	100.5	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Chromium	500	ug/L	500	ug/L	100.1	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Cobalt	502	ug/L	500	ug/L	100.5	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Copper	506	ug/L	500	ug/L	101.1	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Iron	5140	ug/L	5000	ug/L	102.8	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Lead	504	ug/L	500	ug/L	100.8	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Magnesium	5190	ug/L	5000	ug/L	103.9	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Manganese	497	ug/L	500	ug/L	99.5	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Molybdenum	505	ug/L	500	ug/L	101.1	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Nickel	504	ug/L	500	ug/L	100.9	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Phosphorous	2480	ug/L	2500	ug/L	99	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Selenium	504	ug/L	500	ug/L	100.8	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Silica	5290	ug/L	5350	ug/L	98.9	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Silver	512	ug/L	500	ug/L	102.5	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Strontium	508	ug/L	500	ug/L	101.6	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Thallium	507	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Uranium	468	ug/L	500	ug/L	93.6	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Vanadium	506	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Zinc	497	ug/L	500	ug/L	99.4	90.0 − 110.0	P	05−NOV−13 09:42	110513A−1
	Potassium	4940	ug/L	5000	ug/L	98.9	90.0 − 110.0	P	06−NOV−13 08:21	110613−2
	Sodium	9780	ug/L	10000	ug/L	97.8	90.0 − 110.0	P	06−NOV−13 08:21	110613−2
	Tin	490	ug/L	500	ug/L	98	90.0 − 110.0	P	06−NOV−13 08:21	110613−2
	Lead	482	ug/L	500	ug/L	96.4	90.0 − 110.0	P	06−NOV−13 15:23	110613A−4
	Potassium	5050	ug/L	5000	ug/L	101	90.0 − 110.0	P	06−NOV−13 15:23	110613A−4
	Sodium	10800	ug/L	10000	ug/L	108.3	90.0 − 110.0	P	06−NOV−13 15:23	110613A−4
	Tin	482	ug/L	500	ug/L	96.5	90.0 − 110.0	P	06−NOV−13 15:23	110613A−4
	Tin	507	ug/L	500	ug/L	101.4	90.0 − 110.0	P	07−NOV−13 12:29	110713−3
CCV05										
	Aluminum	5080	ug/L	5000	ug/L	101.6	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Antimony	489	ug/L	500	ug/L	97.8	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Arsenic	490	ug/L	500	ug/L	97.9	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Barium	499	ug/L	500	ug/L	99.8	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Beryllium	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Boron	491	ug/L	500	ug/L	98.2	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Cadmium	495	ug/L	500	ug/L	98.9	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Chromium	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Cobalt	500	ug/L	500	ug/L	100.1	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Copper	505	ug/L	500	ug/L	101.1	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Iron	5160	ug/L	5000	ug/L	103.1	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Lead	500	ug/L	500	ug/L	100	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Magnesium	5230	ug/L	5000	ug/L	104.6	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Manganese	495	ug/L	500	ug/L	99.1	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Molybdenum	500	ug/L	500	ug/L	99.9	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Nickel	501	ug/L	500	ug/L	100.2	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Phosphorous	2450	ug/L	2500	ug/L	98	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Selenium	502	ug/L	500	ug/L	100.4	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Silica	5260	ug/L	5350	ug/L	98.3	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Silver	511	ug/L	500	ug/L	102.2	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Strontium	507	ug/L	500	ug/L	101.5	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Thallium	500	ug/L	500	ug/L	100.1	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Uranium	459	ug/L	500	ug/L	91.8	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Vanadium	504	ug/L	500	ug/L	100.7	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Zinc	496	ug/L	500	ug/L	99.2	90.0 − 110.0	P	05−NOV−13 10:02	110513A−1
	Potassium	4910	ug/L	5000	ug/L	98.2	90.0 − 110.0	P	06−NOV−13 08:40	110613−2
	Sodium	9600	ug/L	10000	ug/L	96	90.0 − 110.0	P	06−NOV−13 08:40	110613−2
	Tin	483	ug/L	500	ug/L	96.6	90.0 − 110.0	P	06−NOV−13 08:40	110613−2
	Lead	488	ug/L	500	ug/L	97.7	90.0 − 110.0	P	06−NOV−13 15:47	110613A−4
	Potassium	5050	ug/L	5000	ug/L	101.1	90.0 − 110.0	P	06−NOV−13 15:47	110613A−4
	Sodium	10900	ug/L	10000	ug/L	109.5	90.0 − 110.0	P	06−NOV−13 15:47	110613A−4
	Tin	492	ug/L	500	ug/L	98.4	90.0 − 110.0	P	06−NOV−13 15:47	110613A−4
	Tin	485	ug/L	500	ug/L	97.1	90.0 − 110.0	P	07−NOV−13 12:40	110713−3

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
CCV06										
	Aluminum	5150	ug/L	5000	ug/L	103	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Antimony	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Arsenic	494	ug/L	500	ug/L	98.7	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Barium	504	ug/L	500	ug/L	100.9	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Beryllium	499	ug/L	500	ug/L	99.9	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Boron	493	ug/L	500	ug/L	98.5	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Cadmium	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Chromium	504	ug/L	500	ug/L	100.7	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Cobalt	504	ug/L	500	ug/L	100.8	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Copper	510	ug/L	500	ug/L	102	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Iron	5170	ug/L	5000	ug/L	103.4	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Lead	503	ug/L	500	ug/L	100.5	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Magnesium	5240	ug/L	5000	ug/L	104.8	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Manganese	500	ug/L	500	ug/L	99.9	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Molybdenum	507	ug/L	500	ug/L	101.5	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Nickel	506	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Phosphorous	2480	ug/L	2500	ug/L	99.1	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Selenium	515	ug/L	500	ug/L	102.9	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Silica	5310	ug/L	5350	ug/L	99.2	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Silver	516	ug/L	500	ug/L	103.3	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Strontium	515	ug/L	500	ug/L	103.1	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Thallium	507	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Uranium	466	ug/L	500	ug/L	93.3	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Vanadium	509	ug/L	500	ug/L	101.8	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Zinc	499	ug/L	500	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 10:18	110513A−1
	Potassium	4970	ug/L	5000	ug/L	99.3	90.0 − 110.0	P	06−NOV−13 08:52	110613−2
	Sodium	9750	ug/L	10000	ug/L	97.5	90.0 − 110.0	P	06−NOV−13 08:52	110613−2
	Tin	470	ug/L	500	ug/L	93.9	90.0 − 110.0	P	06−NOV−13 08:52	110613−2
	Lead	482	ug/L	500	ug/L	96.4	90.0 − 110.0	P	06−NOV−13 15:58	110613A−4

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Potassium	5000	ug/L	5000	ug/L	99.9	90.0 − 110.0	P	06−NOV−13 15:58	110613A−4
	Sodium	10800	ug/L	10000	ug/L	108.2	90.0 − 110.0	P	06−NOV−13 15:58	110613A−4
	Tin	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	06−NOV−13 15:58	110613A−4
	Tin	484	ug/L	500	ug/L	96.9	90.0 − 110.0	P	07−NOV−13 13:06	110713−3
CCV07										
	Aluminum	5090	ug/L	5000	ug/L	101.8	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Antimony	492	ug/L	500	ug/L	98.3	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Arsenic	491	ug/L	500	ug/L	98.3	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Barium	504	ug/L	500	ug/L	100.7	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Beryllium	500	ug/L	500	ug/L	100	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Boron	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Cadmium	498	ug/L	500	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Chromium	504	ug/L	500	ug/L	100.7	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Cobalt	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Copper	511	ug/L	500	ug/L	102.2	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Iron	5260	ug/L	5000	ug/L	105.2	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Lead	499	ug/L	500	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Magnesium	5290	ug/L	5000	ug/L	105.9	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Manganese	500	ug/L	500	ug/L	99.9	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Molybdenum	506	ug/L	500	ug/L	101.1	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Nickel	505	ug/L	500	ug/L	100.9	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Phosphorous	2450	ug/L	2500	ug/L	98.2	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Selenium	502	ug/L	500	ug/L	100.3	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Silica	5310	ug/L	5350	ug/L	99.2	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Silver	517	ug/L	500	ug/L	103.3	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Strontium	518	ug/L	500	ug/L	103.6	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Thallium	503	ug/L	500	ug/L	100.7	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Uranium	457	ug/L	500	ug/L	91.4	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Vanadium	509	ug/L	500	ug/L	101.9	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Zinc	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 10:27	110513A−1
	Potassium	4950	ug/L	5000	ug/L	98.9	90.0 − 110.0	P	06−NOV−13 09:11	110613−2
	Sodium	9690	ug/L	10000	ug/L	96.9	90.0 − 110.0	P	06−NOV−13 09:11	110613−2
	Tin	480	ug/L	500	ug/L	96	90.0 − 110.0	P	06−NOV−13 09:11	110613−2
	Lead	481	ug/L	500	ug/L	96.2	90.0 − 110.0	P	06−NOV−13 16:18	110613A−4
	Potassium	5060	ug/L	5000	ug/L	101.2	90.0 − 110.0	P	06−NOV−13 16:18	110613A−4
	Sodium	10900	ug/L	10000	ug/L	108.8	90.0 − 110.0	P	06−NOV−13 16:18	110613A−4
	Tin	486	ug/L	500	ug/L	97.2	90.0 − 110.0	P	06−NOV−13 16:18	110613A−4
	Tin	515	ug/L	500	ug/L	103	90.0 − 110.0	P	07−NOV−13 13:38	110713−3
CCV08										
	Aluminum	5160	ug/L	5000	ug/L	103.2	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Antimony	488	ug/L	500	ug/L	97.7	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Arsenic	487	ug/L	500	ug/L	97.3	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Barium	501	ug/L	500	ug/L	100.2	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Beryllium	497	ug/L	500	ug/L	99.4	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Boron	490	ug/L	500	ug/L	98	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Cadmium	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Calcium	5030	ug/L	5000	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Chromium	500	ug/L	500	ug/L	100	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Cobalt	499	ug/L	500	ug/L	99.9	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Copper	511	ug/L	500	ug/L	102.1	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Iron	5150	ug/L	5000	ug/L	102.9	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Lead	492	ug/L	500	ug/L	98.4	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Magnesium	5200	ug/L	5000	ug/L	104	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Manganese	497	ug/L	500	ug/L	99.5	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Molybdenum	501	ug/L	500	ug/L	100.2	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Nickel	501	ug/L	500	ug/L	100.3	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Phosphorous	2420	ug/L	2500	ug/L	96.7	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Selenium	492	ug/L	500	ug/L	98.3	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Silica	5280	ug/L	5350	ug/L	98.7	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Silver	516	ug/L	500	ug/L	103.1	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Strontium	514	ug/L	500	ug/L	102.8	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Thallium	499	ug/L	500	ug/L	99.9	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Uranium	461	ug/L	500	ug/L	92.2	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Vanadium	507	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Zinc	495	ug/L	500	ug/L	99	90.0 − 110.0	P	05−NOV−13 10:43	110513A−1
	Potassium	5170	ug/L	5000	ug/L	103.4	90.0 − 110.0	P	06−NOV−13 09:27	110613−2
	Sodium	9740	ug/L	10000	ug/L	97.4	90.0 − 110.0	P	06−NOV−13 09:27	110613−2
	Tin	483	ug/L	500	ug/L	96.6	90.0 − 110.0	P	06−NOV−13 09:27	110613−2
	Lead	483	ug/L	500	ug/L	96.7	90.0 − 110.0	P	06−NOV−13 16:29	110613A−4
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 − 110.0	P	06−NOV−13 16:29	110613A−4
	Sodium	10900	ug/L	10000	ug/L	108.5	90.0 − 110.0	P	06−NOV−13 16:29	110613A−4
	Tin	490	ug/L	500	ug/L	98	90.0 − 110.0	P	06−NOV−13 16:29	110613A−4
	Tin	505	ug/L	500	ug/L	101	90.0 − 110.0	P	07−NOV−13 13:53	110713−3
CCV09										
	Aluminum	5210	ug/L	5000	ug/L	104.3	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Antimony	505	ug/L	500	ug/L	101	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Arsenic	503	ug/L	500	ug/L	100.5	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Barium	514	ug/L	500	ug/L	102.7	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Beryllium	511	ug/L	500	ug/L	102.2	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Boron	502	ug/L	500	ug/L	100.4	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Cadmium	505	ug/L	500	ug/L	100.9	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Calcium	5130	ug/L	5000	ug/L	102.5	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Chromium	514	ug/L	500	ug/L	102.8	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Cobalt	511	ug/L	500	ug/L	102.2	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Copper	524	ug/L	500	ug/L	104.8	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Iron	5330	ug/L	5000	ug/L	106.5	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Lead	507	ug/L	500	ug/L	101.4	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Magnesium	5380	ug/L	5000	ug/L	107.5	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Manganese	510	ug/L	500	ug/L	101.9	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Molybdenum	516	ug/L	500	ug/L	103.3	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Nickel	497	ug/L	500	ug/L	99.3	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Phosphorous	2490	ug/L	2500	ug/L	99.5	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Selenium	514	ug/L	500	ug/L	102.8	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Silica	5410	ug/L	5350	ug/L	101.2	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Silver	529	ug/L	500	ug/L	105.7	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Strontium	532	ug/L	500	ug/L	106.4	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Thallium	512	ug/L	500	ug/L	102.3	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Uranium	471	ug/L	500	ug/L	94.2	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Vanadium	521	ug/L	500	ug/L	104.2	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Zinc	506	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 11:03	110513A−1
	Potassium	4960	ug/L	5000	ug/L	99.1	90.0 − 110.0	P	06−NOV−13 09:42	110613−2
	Sodium	9510	ug/L	10000	ug/L	95.1	90.0 − 110.0	P	06−NOV−13 09:42	110613−2
	Tin	455	ug/L	500	ug/L	91	90.0 − 110.0	P	06−NOV−13 09:42	110613−2
	Lead	484	ug/L	500	ug/L	96.8	90.0 − 110.0	P	06−NOV−13 16:49	110613A−4
	Potassium	4910	ug/L	5000	ug/L	98.2	90.0 − 110.0	P	06−NOV−13 16:49	110613A−4
	Sodium	10700	ug/L	10000	ug/L	106.6	90.0 − 110.0	P	06−NOV−13 16:49	110613A−4
	Tin	497	ug/L	500	ug/L	99.5	90.0 − 110.0	P	06−NOV−13 16:49	110613A−4
	Tin	506	ug/L	500	ug/L	101.2	90.0 − 110.0	P	07−NOV−13 14:31	110713−3
CCV10										
	Aluminum	5270	ug/L	5000	ug/L	105.5	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Antimony	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Arsenic	493	ug/L	500	ug/L	98.5	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Barium	510	ug/L	500	ug/L	102	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Beryllium	507	ug/L	500	ug/L	101.5	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Boron	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Cadmium	500	ug/L	500	ug/L	100	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Calcium	5140	ug/L	5000	ug/L	102.7	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Chromium	509	ug/L	500	ug/L	101.9	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Copper	521	ug/L	500	ug/L	104.3	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Iron	5280	ug/L	5000	ug/L	105.7	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Lead	504	ug/L	500	ug/L	100.9	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Magnesium	5310	ug/L	5000	ug/L	106.2	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Manganese	507	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Molybdenum	512	ug/L	500	ug/L	102.4	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Nickel	492	ug/L	500	ug/L	98.3	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Phosphorous	2470	ug/L	2500	ug/L	99	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Selenium	488	ug/L	500	ug/L	97.7	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Silica	5380	ug/L	5350	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Silver	527	ug/L	500	ug/L	105.4	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Strontium	527	ug/L	500	ug/L	105.5	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Thallium	507	ug/L	500	ug/L	101.4	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Uranium	478	ug/L	500	ug/L	95.7	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Vanadium	517	ug/L	500	ug/L	103.3	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Zinc	504	ug/L	500	ug/L	100.7	90.0 − 110.0	P	05−NOV−13 11:46	110513A−1
	Potassium	4960	ug/L	5000	ug/L	99.1	90.0 − 110.0	P	06−NOV−13 09:58	110613−2
	Sodium	9720	ug/L	10000	ug/L	97.2	90.0 − 110.0	P	06−NOV−13 09:58	110613−2
	Tin	459	ug/L	500	ug/L	91.8	90.0 − 110.0	P	06−NOV−13 09:58	110613−2
	Lead	490	ug/L	500	ug/L	98	90.0 − 110.0	P	06−NOV−13 17:04	110613A−4
	Potassium	4880	ug/L	5000	ug/L	97.6	90.0 − 110.0	P	06−NOV−13 17:04	110613A−4
	Sodium	10400	ug/L	10000	ug/L	104.3	90.0 − 110.0	P	06−NOV−13 17:04	110613A−4
	Tin	500	ug/L	500	ug/L	99.9	90.0 − 110.0	P	06−NOV−13 17:04	110613A−4
	Tin	371	ug/L	500	ug/L	74.3	90.0 − 110.0	P	07−NOV−13 14:46	110713−3
CCV11										
	Aluminum	5210	ug/L	5000	ug/L	104.3	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Antimony	490	ug/L	500	ug/L	97.9	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Arsenic	487	ug/L	500	ug/L	97.4	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Barium	506	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Beryllium	501	ug/L	500	ug/L	100.3	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Boron	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Cadmium	494	ug/L	500	ug/L	98.7	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Calcium	5050	ug/L	5000	ug/L	100.9	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Chromium	506	ug/L	500	ug/L	101.2	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Cobalt	503	ug/L	500	ug/L	100.5	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Copper	519	ug/L	500	ug/L	103.8	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Iron	5250	ug/L	5000	ug/L	105	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Lead	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Magnesium	5240	ug/L	5000	ug/L	104.9	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Manganese	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Molybdenum	506	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Nickel	486	ug/L	500	ug/L	97.2	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Phosphorous	2410	ug/L	2500	ug/L	96.5	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Selenium	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Silica	5340	ug/L	5350	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Silver	524	ug/L	500	ug/L	104.9	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Strontium	528	ug/L	500	ug/L	105.6	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Thallium	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Uranium	479	ug/L	500	ug/L	95.8	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Vanadium	514	ug/L	500	ug/L	102.9	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Zinc	499	ug/L	500	ug/L	99.8	90.0 − 110.0	P	05−NOV−13 11:59	110513A−1
	Potassium	4960	ug/L	5000	ug/L	99.1	90.0 − 110.0	P	06−NOV−13 10:37	110613−2
	Sodium	9510	ug/L	10000	ug/L	95.1	90.0 − 110.0	P	06−NOV−13 10:37	110613−2
	Tin	448	ug/L	500	ug/L	89.5	90.0 − 110.0	P	06−NOV−13 10:37	110613−2
	Lead	493	ug/L	500	ug/L	98.7	90.0 − 110.0	P	06−NOV−13 17:27	110613A−4
	Potassium	4990	ug/L	5000	ug/L	99.9	90.0 − 110.0	P	06−NOV−13 17:27	110613A−4
	Sodium	10600	ug/L	10000	ug/L	105.9	90.0 − 110.0	P	06−NOV−13 17:27	110613A−4
	Tin	502	ug/L	500	ug/L	100.4	90.0 − 110.0	P	06−NOV−13 17:27	110613A−4
	Tin	269	ug/L	500	ug/L	53.8	90.0 − 110.0	P	07−NOV−13 15:01	110713−3

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
CCV12										
	Aluminum	5210	ug/L	5000	ug/L	104.2	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Antimony	490	ug/L	500	ug/L	98	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Arsenic	482	ug/L	500	ug/L	96.3	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Barium	504	ug/L	500	ug/L	100.7	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Beryllium	501	ug/L	500	ug/L	100.1	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Boron	490	ug/L	500	ug/L	98.1	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Cadmium	490	ug/L	500	ug/L	98	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Chromium	505	ug/L	500	ug/L	101	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Cobalt	499	ug/L	500	ug/L	99.8	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Copper	518	ug/L	500	ug/L	103.7	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Iron	5170	ug/L	5000	ug/L	103.4	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Lead	492	ug/L	500	ug/L	98.5	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Magnesium	5210	ug/L	5000	ug/L	104.1	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Manganese	501	ug/L	500	ug/L	100.2	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Molybdenum	507	ug/L	500	ug/L	101.4	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Nickel	486	ug/L	500	ug/L	97.2	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Phosphorous	2420	ug/L	2500	ug/L	96.7	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Selenium	485	ug/L	500	ug/L	97	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Silica	5430	ug/L	5350	ug/L	101.6	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Silver	522	ug/L	500	ug/L	104.3	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Strontium	523	ug/L	500	ug/L	104.7	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Thallium	501	ug/L	500	ug/L	100.3	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Uranium	468	ug/L	500	ug/L	93.7	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Vanadium	514	ug/L	500	ug/L	102.8	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Zinc	496	ug/L	500	ug/L	99.1	90.0 − 110.0	P	05−NOV−13 12:46	110513A−1
	Potassium	4920	ug/L	5000	ug/L	98.5	90.0 − 110.0	P	06−NOV−13 11:05	110613−2
	Sodium	9360	ug/L	10000	ug/L	93.6	90.0 − 110.0	P	06−NOV−13 11:05	110613−2
	Tin	444	ug/L	500	ug/L	88.8	90.0 − 110.0	P	06−NOV−13 11:05	110613−2
	Lead	495	ug/L	500	ug/L	98.9	90.0 − 110.0	P	06−NOV−13 17:42	110613A−4

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Potassium	4970	ug/L	5000	ug/L	99.5	90.0 − 110.0	P	06−NOV−13 17:42	110613A−4
	Sodium	10200	ug/L	10000	ug/L	101.9	90.0 − 110.0	P	06−NOV−13 17:42	110613A−4
	Tin	504	ug/L	500	ug/L	100.9	90.0 − 110.0	P	06−NOV−13 17:42	110613A−4
	Tin	532	ug/L	500	ug/L	106.4	90.0 − 110.0	P	07−NOV−13 15:24	110713−3
CCV13										
	Aluminum	5240	ug/L	5000	ug/L	104.9	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Antimony	495	ug/L	500	ug/L	99	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Arsenic	481	ug/L	500	ug/L	96.3	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Barium	504	ug/L	500	ug/L	100.9	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Beryllium	501	ug/L	500	ug/L	100.1	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Boron	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Cadmium	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Calcium	5050	ug/L	5000	ug/L	101.1	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Chromium	506	ug/L	500	ug/L	101.1	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Cobalt	500	ug/L	500	ug/L	100	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Copper	516	ug/L	500	ug/L	103.3	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Iron	5170	ug/L	5000	ug/L	103.4	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Lead	496	ug/L	500	ug/L	99.1	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Magnesium	5240	ug/L	5000	ug/L	104.8	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Manganese	501	ug/L	500	ug/L	100.2	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Molybdenum	507	ug/L	500	ug/L	101.4	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Nickel	488	ug/L	500	ug/L	97.6	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Phosphorous	2450	ug/L	2500	ug/L	97.9	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Selenium	485	ug/L	500	ug/L	97	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Silica	5430	ug/L	5350	ug/L	101.5	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Silver	520	ug/L	500	ug/L	104	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Strontium	522	ug/L	500	ug/L	104.5	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Thallium	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Uranium	472	ug/L	500	ug/L	94.3	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Vanadium	513	ug/L	500	ug/L	102.5	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Zinc	497	ug/L	500	ug/L	99.4	90.0 − 110.0	P	05−NOV−13 13:14	110513A−1
	Lead	499	ug/L	500	ug/L	99.9	90.0 − 110.0	P	06−NOV−13 18:01	110613A−4
	Potassium	4970	ug/L	5000	ug/L	99.4	90.0 − 110.0	P	06−NOV−13 18:01	110613A−4
	Sodium	10400	ug/L	10000	ug/L	104.1	90.0 − 110.0	P	06−NOV−13 18:01	110613A−4
	Tin	518	ug/L	500	ug/L	103.6	90.0 − 110.0	P	06−NOV−13 18:01	110613A−4
	Tin	510	ug/L	500	ug/L	102.1	90.0 − 110.0	P	07−NOV−13 15:58	110713−3
CCV14										
	Aluminum	5220	ug/L	5000	ug/L	104.3	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Antimony	484	ug/L	500	ug/L	96.8	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Arsenic	478	ug/L	500	ug/L	95.5	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Barium	494	ug/L	500	ug/L	98.8	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Beryllium	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Boron	484	ug/L	500	ug/L	96.8	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Cadmium	485	ug/L	500	ug/L	97	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Calcium	5030	ug/L	5000	ug/L	100.6	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Chromium	496	ug/L	500	ug/L	99.3	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Cobalt	491	ug/L	500	ug/L	98.1	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Copper	506	ug/L	500	ug/L	101.3	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Iron	5110	ug/L	5000	ug/L	102.2	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Lead	490	ug/L	500	ug/L	97.9	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Magnesium	5180	ug/L	5000	ug/L	103.5	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Manganese	493	ug/L	500	ug/L	98.5	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Molybdenum	498	ug/L	500	ug/L	99.6	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Nickel	479	ug/L	500	ug/L	95.8	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Phosphorous	2410	ug/L	2500	ug/L	96.4	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Selenium	481	ug/L	500	ug/L	96.3	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Silica	5340	ug/L	5350	ug/L	99.7	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Silver	511	ug/L	500	ug/L	102.1	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Strontium	517	ug/L	500	ug/L	103.4	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Thallium	494	ug/L	500	ug/L	98.8	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Uranium	471	ug/L	500	ug/L	94.2	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Vanadium	503	ug/L	500	ug/L	100.7	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Zinc	489	ug/L	500	ug/L	97.7	90.0 − 110.0	P	05−NOV−13 13:57	110513A−1
	Lead	490	ug/L	500	ug/L	98	90.0 − 110.0	P	06−NOV−13 18:24	110613A−4
	Potassium	5000	ug/L	5000	ug/L	100.1	90.0 − 110.0	P	06−NOV−13 18:24	110613A−4
	Sodium	10300	ug/L	10000	ug/L	102.8	90.0 − 110.0	P	06−NOV−13 18:24	110613A−4
	Tin	510	ug/L	500	ug/L	101.9	90.0 − 110.0	P	06−NOV−13 18:24	110613A−4
	Tin	506	ug/L	500	ug/L	101.1	90.0 − 110.0	P	07−NOV−13 16:31	110713−3
CCV15										
	Aluminum	5040	ug/L	5000	ug/L	100.8	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Antimony	484	ug/L	500	ug/L	96.9	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Arsenic	488	ug/L	500	ug/L	97.5	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Barium	492	ug/L	500	ug/L	98.5	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Beryllium	491	ug/L	500	ug/L	98.3	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Boron	485	ug/L	500	ug/L	97	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Cadmium	484	ug/L	500	ug/L	96.8	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Calcium	4940	ug/L	5000	ug/L	98.8	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Chromium	493	ug/L	500	ug/L	98.6	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Cobalt	491	ug/L	500	ug/L	98.3	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Copper	503	ug/L	500	ug/L	100.5	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Iron	5140	ug/L	5000	ug/L	102.9	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Lead	491	ug/L	500	ug/L	98.1	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Manganese	490	ug/L	500	ug/L	98.1	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Molybdenum	495	ug/L	500	ug/L	99.1	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Nickel	479	ug/L	500	ug/L	95.7	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Phosphorous	2410	ug/L	2500	ug/L	96.3	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Selenium	477	ug/L	500	ug/L	95.4	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Silica	5310	ug/L	5350	ug/L	99.3	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Silver	506	ug/L	500	ug/L	101.2	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1

METALS
−2a−
Initial and Continuing Calibration Verification

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M*	Analysis Date/Time	Run Number
	Strontium	515	ug/L	500	ug/L	103	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Thallium	494	ug/L	500	ug/L	98.7	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Uranium	452	ug/L	500	ug/L	90.3	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Vanadium	499	ug/L	500	ug/L	99.8	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Zinc	488	ug/L	500	ug/L	97.5	90.0 − 110.0	P	05−NOV−13 14:27	110513A−1
	Lead	503	ug/L	500	ug/L	100.6	90.0 − 110.0	P	06−NOV−13 18:59	110613A−4
	Potassium	5090	ug/L	5000	ug/L	101.9	90.0 − 110.0	P	06−NOV−13 18:59	110613A−4
	Sodium	10000	ug/L	10000	ug/L	100.1	90.0 − 110.0	P	06−NOV−13 18:59	110613A−4
	Tin	522	ug/L	500	ug/L	104.3	90.0 − 110.0	P	06−NOV−13 18:59	110613A−4
	Tin	524	ug/L	500	ug/L	104.7	90.0 − 110.0	P	07−NOV−13 17:02	110713−3
CCV16										
	Lead	503	ug/L	500	ug/L	100.7	90.0 − 110.0	P	06−NOV−13 19:28	110613A−4
	Potassium	4830	ug/L	5000	ug/L	96.6	90.0 − 110.0	P	06−NOV−13 19:28	110613A−4
	Sodium	9650	ug/L	10000	ug/L	96.5	90.0 − 110.0	P	06−NOV−13 19:28	110613A−4
	Tin	525	ug/L	500	ug/L	105	90.0 − 110.0	P	06−NOV−13 19:28	110613A−4
	Tin	530	ug/L	500	ug/L	106	90.0 − 110.0	P	07−NOV−13 17:35	110713−3
CCV17										
	Tin	538	ug/L	500	ug/L	107.6	90.0 − 110.0	P	07−NOV−13 18:11	110713−3
CCV18										
	Tin	523	ug/L	500	ug/L	104.7	90.0 − 110.0	P	07−NOV−13 18:27	110713−3

***Analytical Methods:**

P SW846 3005/6010B

METALS
−2b−
CRDL Standard for AA & ICP

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M*	Analysis Date/Time	Run Number
PQL01										
	Aluminum	214	ug/L	200	ug/L	106.9	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Antimony	10.1	ug/L	10	ug/L	101	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Arsenic	33.4	ug/L	30	ug/L	111.5	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Barium	4.99	ug/L	5	ug/L	99.7	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Calcium	213	ug/L	200	ug/L	106.4	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Cobalt	5.95	ug/L	5	ug/L	119	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Iron	114	ug/L	100	ug/L	113.6	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Magnesium	338	ug/L	300	ug/L	112.7	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Molybdenum	10.2	ug/L	10	ug/L	102.1	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Phosphorous	161	ug/L	150	ug/L	107.5	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Zinc	10.8	ug/L	10	ug/L	108.1	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Vanadium	5.49	ug/L	5	ug/L	109.8	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Uranium	62.7	ug/L	50	ug/L	125.4	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Thallium	21.5	ug/L	20	ug/L	107.5	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Strontium	4.7	ug/L	5	ug/L	94	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Silver	5.37	ug/L	5	ug/L	107.4	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Selenium	26.3	ug/L	30	ug/L	87.7	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Nickel	6.19	ug/L	5	ug/L	123.9	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Silica	229	ug/L	213	ug/L	107.6	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Manganese	11.3	ug/L	10	ug/L	113.2	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Lead	12.2	ug/L	10	ug/L	121.9	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Copper	11.1	ug/L	10	ug/L	110.6	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Chromium	5.78	ug/L	5	ug/L	115.7	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Cadmium	5.28	ug/L	5	ug/L	105.6	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Boron	53	ug/L	50	ug/L	106	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Beryllium	5.26	ug/L	5	ug/L	105.2	70.0 − 130.0	P	05−NOV−13 08:32	110513A−1
	Potassium	216	ug/L	150	ug/L	144	70.0 − 130.0	P	06−NOV−13 07:11	110613−2
	Sodium	301	ug/L	300	ug/L	100.3	70.0 − 130.0	P	06−NOV−13 07:11	110613−2
	Tin	10.5	ug/L	10	ug/L	104.6	70.0 − 130.0	P	06−NOV−13 07:11	110613−2
	Lead	8.56	ug/L	10	ug/L	85.6	70.0 − 130.0	P	06−NOV−13 13:27	110613A−4

METALS
−2b−
CRDL Standard for AA & ICP

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M*	Analysis Date/Time	Run Number
	Potassium	167	ug/L	150	ug/L	111	70.0 − 130.0	P	06−NOV−13 13:27	110613A−4
	Sodium	300	ug/L	300	ug/L	100	70.0 − 130.0	P	06−NOV−13 13:27	110613A−4
	Tin	11.4	ug/L	10	ug/L	114.1	70.0 − 130.0	P	06−NOV−13 13:27	110613A−4
	Tin	8.15	ug/L	10	ug/L	81.5	70.0 − 130.0	P	07−NOV−13 11:23	110713−3
PQL02										
	Arsenic	31.4	ug/L	30	ug/L	104.7	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Silver	5.36	ug/L	5	ug/L	107.3	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Selenium	39.7	ug/L	30	ug/L	132.4	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Nickel	8.1	ug/L	5	ug/L	162	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Molybdenum	10.6	ug/L	10	ug/L	105.9	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Manganese	11.4	ug/L	10	ug/L	113.6	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Magnesium	350	ug/L	300	ug/L	116.5	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Lead	9.68	ug/L	10	ug/L	96.8	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Iron	109	ug/L	100	ug/L	109.4	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Copper	10.5	ug/L	10	ug/L	104.5	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Antimony	10.2	ug/L	10	ug/L	102	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Aluminum	236	ug/L	200	ug/L	118.1	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Silica	209	ug/L	213	ug/L	98.3	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Phosphorous	148	ug/L	150	ug/L	98.5	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Zinc	10	ug/L	10	ug/L	100.2	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Vanadium	5.44	ug/L	5	ug/L	108.7	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Uranium	46.7	ug/L	50	ug/L	93.4	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Thallium	16.5	ug/L	20	ug/L	82.3	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Strontium	5.53	ug/L	5	ug/L	110.6	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Boron	50.5	ug/L	50	ug/L	101	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Cadmium	5.32	ug/L	5	ug/L	106.5	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Calcium	207	ug/L	200	ug/L	103.6	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Cobalt	5.54	ug/L	5	ug/L	110.9	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Chromium	7.98	ug/L	5	ug/L	159.6	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Beryllium	5.19	ug/L	5	ug/L	103.8	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1

METALS
−2b−
CRDL Standard for AA & ICP

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M*	Analysis Date/Time	Run Number
	Barium	4.86	ug/L	5	ug/L	97.1	70.0 − 130.0	P	05−NOV−13 09:36	110513A−1
	Potassium	168	ug/L	150	ug/L	111.7	70.0 − 130.0	P	06−NOV−13 07:49	110613−2
	Sodium	293	ug/L	300	ug/L	97.5	70.0 − 130.0	P	06−NOV−13 07:49	110613−2
	Tin	11.5	ug/L	10	ug/L	115	70.0 − 130.0	P	06−NOV−13 07:49	110613−2
	Lead	9.16	ug/L	10	ug/L	91.6	70.0 − 130.0	P	06−NOV−13 14:51	110613A−4
	Potassium	154	ug/L	150	ug/L	102.5	70.0 − 130.0	P	06−NOV−13 14:51	110613A−4
	Sodium	330	ug/L	300	ug/L	110.1	70.0 − 130.0	P	06−NOV−13 14:51	110613A−4
	Tin	10.3	ug/L	10	ug/L	103.4	70.0 − 130.0	P	06−NOV−13 14:51	110613A−4
	Tin	8.73	ug/L	10	ug/L	87.3	70.0 − 130.0	P	07−NOV−13 12:32	110713−3
PQL03										
	Molybdenum	10.3	ug/L	10	ug/L	103.1	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Manganese	10.9	ug/L	10	ug/L	108.7	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Magnesium	334	ug/L	300	ug/L	111.2	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Lead	7.83	ug/L	10	ug/L	78.3	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Iron	102	ug/L	100	ug/L	102.2	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Copper	10.4	ug/L	10	ug/L	104.2	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Cobalt	5.18	ug/L	5	ug/L	103.7	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Chromium	5.08	ug/L	5	ug/L	101.6	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Calcium	207	ug/L	200	ug/L	103.6	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Cadmium	4.97	ug/L	5	ug/L	99.4	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Boron	49.7	ug/L	50	ug/L	99.4	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Beryllium	5.14	ug/L	5	ug/L	102.9	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Barium	4.94	ug/L	5	ug/L	98.7	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Arsenic	21.2	ug/L	30	ug/L	70.6	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Antimony	11.7	ug/L	10	ug/L	116.8	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Aluminum	212	ug/L	200	ug/L	106.1	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Silica	212	ug/L	213	ug/L	99.4	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Phosphorous	145	ug/L	150	ug/L	96.9	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Zinc	10.2	ug/L	10	ug/L	102.2	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Vanadium	5.47	ug/L	5	ug/L	109.4	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1

METALS
−2b−
CRDL Standard for AA & ICP

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M*	Analysis Date/Time	Run Number
	Uranium	34.8	ug/L	50	ug/L	69.5	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Thallium	19.6	ug/L	20	ug/L	98.2	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Selenium	23.1	ug/L	30	ug/L	77.1	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Silver	5.64	ug/L	5	ug/L	112.7	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Nickel	4.99	ug/L	5	ug/L	99.7	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Strontium	4.65	ug/L	5	ug/L	93	70.0 − 130.0	P	05−NOV−13 10:21	110513A−1
	Potassium	220	ug/L	150	ug/L	146.6	70.0 − 130.0	P	06−NOV−13 08:43	110613−2
	Tin	9.66	ug/L	10	ug/L	96.6	70.0 − 130.0	P	06−NOV−13 08:43	110613−2
	Sodium	285	ug/L	300	ug/L	94.9	70.0 − 130.0	P	06−NOV−13 08:43	110613−2
	Lead	9.55	ug/L	10	ug/L	95.5	70.0 − 130.0	P	06−NOV−13 15:50	110613A−4
	Tin	12.1	ug/L	10	ug/L	121.4	70.0 − 130.0	P	06−NOV−13 15:50	110613A−4
	Potassium	163	ug/L	150	ug/L	108.9	70.0 − 130.0	P	06−NOV−13 15:50	110613A−4
	Sodium	327	ug/L	300	ug/L	109.1	70.0 − 130.0	P	06−NOV−13 15:50	110613A−4
	Tin	10.1	ug/L	10	ug/L	101.4	70.0 − 130.0	P	07−NOV−13 13:41	110713−3
PQL04										
	Aluminum	238	ug/L	200	ug/L	119.2	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Antimony	12.4	ug/L	10	ug/L	123.8	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Arsenic	34.5	ug/L	30	ug/L	114.9	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Beryllium	5.19	ug/L	5	ug/L	103.8	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Magnesium	334	ug/L	300	ug/L	111.3	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Lead	11.3	ug/L	10	ug/L	112.8	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Iron	105	ug/L	100	ug/L	105.4	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Copper	10.6	ug/L	10	ug/L	105.7	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Cobalt	5.53	ug/L	5	ug/L	110.5	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Chromium	5.12	ug/L	5	ug/L	102.3	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Calcium	201	ug/L	200	ug/L	100.6	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Cadmium	5.26	ug/L	5	ug/L	105.3	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Boron	50.4	ug/L	50	ug/L	100.8	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Vanadium	5.58	ug/L	5	ug/L	111.6	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Uranium	39.7	ug/L	50	ug/L	79.4	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1

METALS
−2b−
CRDL Standard for AA & ICP

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M*	Analysis Date/Time	Run Number
	Thallium	19.2	ug/L	20	ug/L	95.9	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Strontium	5.55	ug/L	5	ug/L	111	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Silver	5	ug/L	5	ug/L	100	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Selenium	38.2	ug/L	30	ug/L	127.4	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Nickel	5.18	ug/L	5	ug/L	103.6	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Molybdenum	9.84	ug/L	10	ug/L	98.4	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Manganese	10.9	ug/L	10	ug/L	109.4	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Silica	220	ug/L	213	ug/L	103.4	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Phosphorous	150	ug/L	150	ug/L	99.7	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Zinc	10.4	ug/L	10	ug/L	104.4	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Barium	5.04	ug/L	5	ug/L	100.9	70.0 − 130.0	P	05−NOV−13 10:46	110513A−1
	Potassium	214	ug/L	150	ug/L	142.9	70.0 − 130.0	P	06−NOV−13 09:14	110613−2
	Tin	10.6	ug/L	10	ug/L	106.3	70.0 − 130.0	P	06−NOV−13 09:14	110613−2
	Sodium	274	ug/L	300	ug/L	91.3	70.0 − 130.0	P	06−NOV−13 09:14	110613−2
	Lead	8.36	ug/L	10	ug/L	83.6	70.0 − 130.0	P	06−NOV−13 16:21	110613A−4
	Sodium	332	ug/L	300	ug/L	110.7	70.0 − 130.0	P	06−NOV−13 16:21	110613A−4
	Tin	12.2	ug/L	10	ug/L	122	70.0 − 130.0	P	06−NOV−13 16:21	110613A−4
	Potassium	128	ug/L	150	ug/L	85.2	70.0 − 130.0	P	06−NOV−13 16:21	110613A−4
	Tin	10.4	ug/L	10	ug/L	103.5	70.0 − 130.0	P	07−NOV−13 14:34	110713−3
PQL05										
	Arsenic	26.7	ug/L	30	ug/L	89.1	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Boron	50.2	ug/L	50	ug/L	100.5	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Cadmium	5.18	ug/L	5	ug/L	103.6	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Beryllium	5.31	ug/L	5	ug/L	106.2	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Barium	4.96	ug/L	5	ug/L	99.3	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Calcium	208	ug/L	200	ug/L	103.8	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Cobalt	5.58	ug/L	5	ug/L	111.6	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Silica	223	ug/L	213	ug/L	104.6	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Phosphorous	147	ug/L	150	ug/L	98.2	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Zinc	10.3	ug/L	10	ug/L	102.5	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1

METALS
−2b−
CRDL Standard for AA & ICP

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: OPTIMA3,OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M*	Analysis Date/Time	Run Number
	Vanadium	5.61	ug/L	5	ug/L	112.3	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Uranium	43.2	ug/L	50	ug/L	86.3	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Thallium	18.3	ug/L	20	ug/L	91.5	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Strontium	5.4	ug/L	5	ug/L	107.9	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Silver	5.19	ug/L	5	ug/L	103.9	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Selenium	39.9	ug/L	30	ug/L	133.1	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Nickel	6.48	ug/L	5	ug/L	129.6	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Molybdenum	10.5	ug/L	10	ug/L	104.9	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Manganese	11.1	ug/L	10	ug/L	111.1	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Magnesium	342	ug/L	300	ug/L	114.1	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Lead	11.2	ug/L	10	ug/L	111.9	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Iron	112	ug/L	100	ug/L	111.7	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Copper	10.5	ug/L	10	ug/L	105.4	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Antimony	10.5	ug/L	10	ug/L	104.5	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Aluminum	214	ug/L	200	ug/L	107.2	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Chromium	6.24	ug/L	5	ug/L	124.8	70.0 − 130.0	P	05−NOV−13 11:50	110513A−1
	Potassium	221	ug/L	150	ug/L	147.3	70.0 − 130.0	P	06−NOV−13 09:45	110613−2
	Sodium	272	ug/L	300	ug/L	90.7	70.0 − 130.0	P	06−NOV−13 09:45	110613−2
	Tin	9.3	ug/L	10	ug/L	93	70.0 − 130.0	P	06−NOV−13 09:45	110613−2
	Lead	11.6	ug/L	10	ug/L	116.4	70.0 − 130.0	P	06−NOV−13 16:52	110613A−4
	Potassium	136	ug/L	150	ug/L	90.7	70.0 − 130.0	P	06−NOV−13 16:52	110613A−4
	Sodium	317	ug/L	300	ug/L	105.7	70.0 − 130.0	P	06−NOV−13 16:52	110613A−4
	Tin	11.4	ug/L	10	ug/L	113.7	70.0 − 130.0	P	06−NOV−13 16:52	110613A−4
PQL06										
	Lead	11.4	ug/L	10	ug/L	113.7	70.0 − 130.0	P	06−NOV−13 17:30	110613A−4
	Potassium	136	ug/L	150	ug/L	90.8	70.0 − 130.0	P	06−NOV−13 17:30	110613A−4
	Sodium	306	ug/L	300	ug/L	102	70.0 − 130.0	P	06−NOV−13 17:30	110613A−4
	Tin	11.7	ug/L	10	ug/L	116.8	70.0 − 130.0	P	06−NOV−13 17:30	110613A−4

***Analytical Methods:**

P **SW846 3005/6010B**

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
ICB01										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 08:29	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 08:29	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 08:29	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 08:29	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 08:29	110513A−1
	Selenium	7.48	+/−30	B	6.0	30.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 08:29	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Uranium	17.26	+/−50	B	10.0	50.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 08:29	110513A−1
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 07:07	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 07:07	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 07:07	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 13:22	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 13:22	110613A−4

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 13:22	110613A−4
	Tin	2.8	+/−10	B	2.5	10.0	LIQ	P	06−NOV−13 13:22	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 11:19	110713−3
CCB01										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 09:04	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 09:04	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 09:04	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 09:04	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 09:04	110513A−1
	Selenium	10.48	+/−30	B	6.0	30.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 09:04	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 09:04	110513A−1
	Potassium	100.33	+/−150	B	50.0	150	LIQ	P	06−NOV−13 07:29	110613−2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 07:29	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 07:29	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 13:44	110613A−4
	Potassium	62.45	+/−150	B	50.0	150	LIQ	P	06−NOV−13 13:44	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 13:44	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 13:44	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 11:40	110713−3
CCB02										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 09:13	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 09:13	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 09:13	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 09:13	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 09:13	110513A−1
	Selenium	6.0	+/−30	U	6.0	30.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 09:13	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 09:13	110513A−1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 09:13	110513A−1
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 07:53	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 07:53	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 07:53	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 14:55	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 14:55	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 14:55	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 14:55	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 11:58	110713−3
CCB03										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 09:39	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 09:39	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 09:39	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 09:39	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 09:39	110513A−1
	Selenium	6.0	+/−30	U	6.0	30.0	LIQ	P	05−NOV−13 09:39	110513A−1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 09:39	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Uranium	−15.88	+/−50	B	10.0	50.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 09:39	110513A−1
	Potassium	67.19	+/−150	B	50.0	150	LIQ	P	06−NOV−13 08:00	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 08:00	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 08:00	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 15:02	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 15:02	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 15:02	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 15:02	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 12:12	110713−3
CCB04										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 09:45	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 09:45	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 09:45	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 09:45	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 09:45	110513A−1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 09:45	110513A−1
	Selenium	−8.92	+/−30	B	6.0	30.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 09:45	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 09:45	110513A−1
	Potassium	94.47	+/−150	B	50.0	150	LIQ	P	06−NOV−13 08:24	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 08:24	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 08:24	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 15:26	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 15:26	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 15:26	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 15:26	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 12:36	110713−3
CCB05										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 10:05	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 10:05	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 10:05	110513A−1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 10:05	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 10:05	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 10:05	110513A−1
	Selenium	9.64	+/−30	B	6.0	30.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 10:05	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 10:05	110513A−1
	Potassium	50.68	+/−150	B	50.0	150	LIQ	P	06−NOV−13 08:47	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 08:47	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 08:47	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 15:54	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 15:54	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 15:54	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 15:54	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 12:43	110713−3
CCB06										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 10:24	110513A−1
	Antimony	−5.36	+/−10	B	3.5	10.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:24	110513A−1

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 10:24	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 10:24	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 10:24	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 10:24	110513A−1
	Selenium	−8.67	+/−30	B	6.0	30.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 10:24	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 10:24	110513A−1
	Potassium	64.09	+/−150	B	50.0	150	LIQ	P	06−NOV−13 08:55	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 08:55	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 08:55	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 16:01	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 16:01	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 16:01	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 16:01	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 13:09	110713−3
CCB07										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 10:31	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 10:31	110513A−1

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 10:31	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 10:31	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 10:31	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 10:31	110513A−1
	Selenium	6.0	+/−30	U	6.0	30.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 10:31	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 10:31	110513A−1
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 09:18	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 09:18	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 09:18	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 16:25	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 16:25	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 16:25	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 16:25	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 13:45	110713−3

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
CCB08										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 10:50	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 10:50	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 10:50	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 10:50	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 10:50	110513A−1
	Selenium	6.0	+/−30	U	6.0	30.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 10:50	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Uranium	−17.09	+/−50	B	10.0	50.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 10:50	110513A−1
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 09:30	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 09:30	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 09:30	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 16:32	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 16:32	110613A−4

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 16:32	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 16:32	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 13:56	110713−3
CCB09										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 11:06	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 11:06	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 11:06	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 11:06	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 11:06	110513A−1
	Selenium	6.0	+/−30	U	6.0	30.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 11:06	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 11:06	110513A−1
	Potassium	50.98	+/−150	B	50.0	150	LIQ	P	06−NOV−13 09:49	110613−2

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 09:49	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 09:49	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 16:56	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 16:56	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 16:56	110613A−4
	Tin	3.95	+/−10	B	2.5	10.0	LIQ	P	06−NOV−13 16:56	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 14:38	110713−3
CCB10										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 11:53	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 11:53	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 11:53	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 11:53	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 11:53	110513A−1
	Selenium	−11.26	+/−30	B	6.0	30.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 11:53	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 11:53	110513A−1

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 11:53	110513A−1
	Potassium	93.84	+/−150	B	50.0	150	LIQ	P	06−NOV−13 10:01	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 10:01	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 10:01	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 17:07	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 17:07	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 17:07	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 17:07	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 14:50	110713−3
CCB11										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 12:02	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Arsenic	−5.43	+/−30	B	5.0	30.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 12:02	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 12:02	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 12:02	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 12:02	110513A−1
	Selenium	−9.62	+/−30	B	6.0	30.0	LIQ	P	05−NOV−13 12:02	110513A−1

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 12:02	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 12:02	110513A−1
	Potassium	75.45	+/−150	B	50.0	150	LIQ	P	06−NOV−13 10:40	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 10:40	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 10:40	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 17:34	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 17:34	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 17:34	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 17:34	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 15:04	110713−3
CCB12										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 12:49	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 12:49	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 12:49	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 12:49	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 12:49	110513A−1

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 12:49	110513A−1
	Selenium	6.0	+/−30	U	6.0	30.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Silica	57.77	+/−213	B	53.0	213	LIQ	P	05−NOV−13 12:49	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Uranium	−10.94	+/−50	B	10.0	50.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 12:49	110513A−1
	Potassium	138.38	+/−150	B	50.0	150	LIQ	P	06−NOV−13 11:09	110613−2
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 11:09	110613−2
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 11:09	110613−2
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 17:46	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 17:46	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 17:46	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 17:46	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 15:27	110713−3
CCB13										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 13:18	110513A−1
	Antimony	−4.61	+/−10	B	3.5	10.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 13:18	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 13:18	110513A−1

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 13:18	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 13:18	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 13:18	110513A−1
	Selenium	8.01	+/−30	B	6.0	30.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 13:18	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 13:18	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 18:04	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 18:04	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 18:04	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 18:04	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 16:01	110713−3
CCB14										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 14:00	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Arsenic	−5.99	+/−30	B	5.0	30.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 14:00	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:00	110513A−1

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 14:00	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 14:00	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 14:00	110513A−1
	Selenium	6.0	+/−30	U	6.0	30.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Silica	55.3	+/−213	B	53.0	213	LIQ	P	05−NOV−13 14:00	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Thallium	−6.21	+/−20	B	5.0	20.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 14:00	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 18:27	110613A−4
	Potassium	66.48	+/−150	B	50.0	150	LIQ	P	06−NOV−13 18:27	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 18:27	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 18:27	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 16:35	110713−3
CCB15										
	Aluminum	68.0	+/−200	U	68.0	200	LIQ	P	05−NOV−13 14:30	110513A−1
	Antimony	3.5	+/−10	U	3.5	10.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Arsenic	5.0	+/−30	U	5.0	30.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Barium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Beryllium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Boron	15.0	+/−50	U	15.0	50.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Cadmium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Calcium	50.0	+/−200	U	50.0	200	LIQ	P	05−NOV−13 14:30	110513A−1
	Chromium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:30	110513A−1

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
	Cobalt	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Copper	3.0	+/−10	U	3.0	10.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Iron	30.0	+/−100	U	30.0	100	LIQ	P	05−NOV−13 14:30	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Magnesium	110	+/−300	U	110	300	LIQ	P	05−NOV−13 14:30	110513A−1
	Manganese	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Molybdenum	2.0	+/−10	U	2.0	10.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Nickel	1.5	+/−5	U	1.5	5.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Phosphorous	60.0	+/−150	U	60.0	150	LIQ	P	05−NOV−13 14:30	110513A−1
	Selenium	20.24	+/−30	B	6.0	30.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Silica	53.0	+/−213	U	53.0	213	LIQ	P	05−NOV−13 14:30	110513A−1
	Silver	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Strontium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Thallium	5.0	+/−20	U	5.0	20.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Uranium	10.0	+/−50	U	10.0	50.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Vanadium	1.0	+/−5	U	1.0	5.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Zinc	3.3	+/−10	U	3.3	10.0	LIQ	P	05−NOV−13 14:30	110513A−1
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 19:02	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 19:02	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 19:02	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 19:02	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 17:05	110713−3
CCB16										
	Lead	3.3	+/−10	U	3.3	10.0	LIQ	P	06−NOV−13 19:31	110613A−4
	Potassium	50.0	+/−150	U	50.0	150	LIQ	P	06−NOV−13 19:31	110613A−4
	Sodium	100	+/−300	U	100	300	LIQ	P	06−NOV−13 19:31	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	06−NOV−13 19:31	110613A−4
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 17:38	110713−3
CCB17										
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 18:14	110713−3

Metals
−3a−
Initial and Continuing Calibration Blank Summary

SDG No.: 335304

Contract: MDNR00101

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M*	Analysis Date/Time	Run
CCB18										
	Tin	2.5	+/−10	U	2.5	10.0	LIQ	P	07−NOV−13 18:30	110713−3

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−3b−
PREPARATION BLANK SUMMARY

SDG NO. 335304

Contract: MDNR00101

Matrix: Ground Water

Sample ID	Analyte	Result	Units	Acceptance Window	Conc Qual	M*	MDL	RDL
1202969089								
	Silica	53	ug/L	+/−213	U	P	53	213
	Silver	1	ug/L	+/−5	U	P	1	5
	Sodium	100	ug/L	+/−300	U	P	100	300
	Strontium	1	ug/L	+/−5	U	P	1	5
	Thallium	5	ug/L	+/−20	U	P	5	20
	Tin	2.5	ug/L	+/−10	U	P	2.5	10
	Uranium	10	ug/L	+/−50	U	P	10	50
	Vanadium	1	ug/L	+/−5	U	P	1	5
	Zinc	3.3	ug/L	+/−10	U	P	3.3	10
	Calcium	50	ug/L	+/−200	U	P	50	200
	Cadmium	1	ug/L	+/−5	U	P	1	5
	Boron	15	ug/L	+/−50	U	P	15	50
	Beryllium	1	ug/L	+/−5	U	P	1	5
	Barium	1	ug/L	+/−5	U	P	1	5
	Arsenic	5	ug/L	+/−30	U	P	5	30
	Antimony	3.5	ug/L	+/−10	U	P	3.5	10
	Aluminum	68	ug/L	+/−200	U	P	68	200
	Selenium	6	ug/L	+/−30	U	P	6	30
	Nickel	1.5	ug/L	+/−5	U	P	1.5	5
	Molybdenum	2	ug/L	+/−10	U	P	2	10
	Manganese	2	ug/L	+/−10	U	P	2	10
	Magnesium	110	ug/L	+/−300	U	P	110	300
	Lead	−3.37	ug/L	+/−10	B	P	3.3	10
	Iron	30	ug/L	+/−100	U	P	30	100
	Copper	3	ug/L	+/−10	U	P	3	10
	Cobalt	1	ug/L	+/−5	U	P	1	5
	Chromium	1	ug/L	+/−5	U	P	1	5
	Potassium	50	ug/L	+/−150	U	P	50	150
	Phosphorous	60	ug/L	+/−150	U	P	60	150
1202969094								
	Aluminum	68	ug/L	+/−200	U	P	68	200
	Antimony	3.5	ug/L	+/−10	U	P	3.5	10
	Arsenic	5	ug/L	+/−30	U	P	5	30
	Barium	1	ug/L	+/−5	U	P	1	5
	Beryllium	1	ug/L	+/−5	U	P	1	5
	Boron	15	ug/L	+/−50	U	P	15	50
	Cadmium	1	ug/L	+/−5	U	P	1	5
	Calcium	50	ug/L	+/−200	U	P	50	200

METALS
−3b−
PREPARATION BLANK SUMMARY

SDG NO. 335304

Contract: MDNR00101

Matrix: Ground Water

Sample ID	Analyte	Result	Units	Acceptance Window	Conc Qual	M*	MDL	RDL
	Thallium	5	ug/L	+/−20	U	P	5	20
	Strontium	1	ug/L	+/−5	U	P	1	5
	Sodium	100	ug/L	+/−300	U	P	100	300
	Silver	1	ug/L	+/−5	U	P	1	5
	Selenium	−6.15	ug/L	+/−30	B	P	6	30
	Chromium	1	ug/L	+/−5	U	P	1	5
	Cobalt	1	ug/L	+/−5	U	P	1	5
	Copper	3	ug/L	+/−10	U	P	3	10
	Iron	30	ug/L	+/−100	U	P	30	100
	Silica	53	ug/L	+/−213	U	P	53	213
	Zinc	3.3	ug/L	+/−10	U	P	3.3	10
	Vanadium	1	ug/L	+/−5	U	P	1	5
	Uranium	10	ug/L	+/−50	U	P	10	50
	Tin	2.5	ug/L	+/−10	U	P	2.5	10
	Lead	3.3	ug/L	+/−10	U	P	3.3	10
	Magnesium	110	ug/L	+/−300	U	P	110	300
	Manganese	2	ug/L	+/−10	U	P	2	10
	Molybdenum	2	ug/L	+/−10	U	P	2	10
	Nickel	1.5	ug/L	+/−5	U	P	1.5	5
	Phosphorous	60	ug/L	+/−150	U	P	60	150
	Potassium	59.1	ug/L	+/−150	B	P	50	150

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−4−
Interference Check Sample

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

ICS: O2Si

Instrument: OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Aluminum	498000	ug/L	500000	ug/L	99.5	80.0 − 120.0	05−NOV−13 08:36	110513A−1
	Antimony	−11.1	ug/L					05−NOV−13 08:36	110513A−1
	Arsenic	3.23	ug/L					05−NOV−13 08:36	110513A−1
	Barium	0.204	ug/L					05−NOV−13 08:36	110513A−1
	Beryllium	−0.065	ug/L					05−NOV−13 08:36	110513A−1
	Boron	8.9	ug/L					05−NOV−13 08:36	110513A−1
	Cadmium	0.345	ug/L					05−NOV−13 08:36	110513A−1
	Calcium	488000	ug/L	500000	ug/L	97.6	80.0 − 120.0	05−NOV−13 08:36	110513A−1
	Chromium	−0.741	ug/L					05−NOV−13 08:36	110513A−1
	Cobalt	−1.23	ug/L					05−NOV−13 08:36	110513A−1
	Copper	1.14	ug/L					05−NOV−13 08:36	110513A−1
	Iron	193000	ug/L	200000	ug/L	96.6	80.0 − 120.0	05−NOV−13 08:36	110513A−1
	Lead	12.9	ug/L					05−NOV−13 08:36	110513A−1
	Magnesium	486000	ug/L	500000	ug/L	97.3	80.0 − 120.0	05−NOV−13 08:36	110513A−1
	Manganese	−0.554	ug/L					05−NOV−13 08:36	110513A−1
	Molybdenum	−0.946	ug/L					05−NOV−13 08:36	110513A−1
	Nickel	−2.94	ug/L					05−NOV−13 08:36	110513A−1
	Phosphorous	47.3	ug/L					05−NOV−13 08:36	110513A−1
	Selenium	10.8	ug/L					05−NOV−13 08:36	110513A−1
	Silica	−10.0	ug/L					05−NOV−13 08:36	110513A−1
	Silver	0.852	ug/L					05−NOV−13 08:36	110513A−1
	Strontium	−0.482	ug/L					05−NOV−13 08:36	110513A−1
	Thallium	−10.9	ug/L					05−NOV−13 08:36	110513A−1
	Uranium	66.7	ug/L					05−NOV−13 08:36	110513A−1
	Vanadium	1.11	ug/L					05−NOV−13 08:36	110513A−1
	Zinc	−0.831	ug/L					05−NOV−13 08:36	110513A−1
ICSAB01									
	Aluminum	497000	ug/L	500000	ug/L	99.5	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Antimony	499	ug/L	500	ug/L	99.8	80.0 − 120.0	05−NOV−13 08:38	110513A−1

METALS
−4−
Interference Check Sample

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

ICS:

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
	Arsenic	529	ug/L	500	ug/L	106	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Barium	511	ug/L	500	ug/L	102	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Beryllium	259	ug/L	250	ug/L	103	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Boron	531	ug/L	500	ug/L	106	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Cadmium	482	ug/L	500	ug/L	96.5	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Calcium	486000	ug/L	500000	ug/L	97.2	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Chromium	490	ug/L	500	ug/L	98	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Cobalt	464	ug/L	500	ug/L	92.8	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Copper	559	ug/L	500	ug/L	112	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Iron	194000	ug/L	200000	ug/L	97.2	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Lead	508	ug/L	500	ug/L	102	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Magnesium	488000	ug/L	500000	ug/L	97.6	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Manganese	492	ug/L	500	ug/L	98.3	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Molybdenum	515	ug/L	500	ug/L	103	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Nickel	461	ug/L	500	ug/L	92.3	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Phosphorous	2660	ug/L	2500	ug/L	106	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Selenium	2440	ug/L	2500	ug/L	97.6	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Silica	10900	ug/L	10700	ug/L	102	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Silver	280	ug/L	250	ug/L	112	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Strontium	513	ug/L	500	ug/L	103	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Thallium	472	ug/L	500	ug/L	94.4	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Uranium	578	ug/L	500	ug/L	116	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Vanadium	542	ug/L	500	ug/L	108	80.0 − 120.0	05−NOV−13 08:38	110513A−1
	Zinc	485	ug/L	500	ug/L	97.1	80.0 − 120.0	05−NOV−13 08:38	110513A−1
ICSA02									
	Aluminum	491000	ug/L	500000	ug/L	98.3	80.0 − 120.0	05−NOV−13 09:57	110513A−1
	Antimony	−9.42	ug/L					05−NOV−13 09:57	110513A−1
	Arsenic	−7.57	ug/L					05−NOV−13 09:57	110513A−1
	Barium	0.298	ug/L					05−NOV−13 09:57	110513A−1

METALS
−4−
Interference Check Sample

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

ICS:

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
	Beryllium	0.151	ug/L					05−NOV−13 09:57	110513A−1
	Boron	8.8	ug/L					05−NOV−13 09:57	110513A−1
	Cadmium	0.246	ug/L					05−NOV−13 09:57	110513A−1
	Calcium	477000	ug/L	500000	ug/L	95.3	80.0 − 120.0	05−NOV−13 09:57	110513A−1
	Chromium	−0.096	ug/L					05−NOV−13 09:57	110513A−1
	Cobalt	−0.816	ug/L					05−NOV−13 09:57	110513A−1
	Copper	1.58	ug/L					05−NOV−13 09:57	110513A−1
	Iron	189000	ug/L	200000	ug/L	94.3	80.0 − 120.0	05−NOV−13 09:57	110513A−1
	Lead	0.168	ug/L					05−NOV−13 09:57	110513A−1
	Magnesium	473000	ug/L	500000	ug/L	94.7	80.0 − 120.0	05−NOV−13 09:57	110513A−1
	Manganese	−0.544	ug/L					05−NOV−13 09:57	110513A−1
	Molybdenum	0.017	ug/L					05−NOV−13 09:57	110513A−1
	Nickel	−1.81	ug/L					05−NOV−13 09:57	110513A−1
	Phosphorous	41.4	ug/L					05−NOV−13 09:57	110513A−1
	Selenium	36.3	ug/L					05−NOV−13 09:57	110513A−1
	Silica	−10.4	ug/L					05−NOV−13 09:57	110513A−1
	Silver	0.963	ug/L					05−NOV−13 09:57	110513A−1
	Strontium	−0.095	ug/L					05−NOV−13 09:57	110513A−1
	Thallium	−6.61	ug/L					05−NOV−13 09:57	110513A−1
	Uranium	42.2	ug/L					05−NOV−13 09:57	110513A−1
	Vanadium	0.788	ug/L					05−NOV−13 09:57	110513A−1
	Zinc	−1.46	ug/L					05−NOV−13 09:57	110513A−1
ICSAB02									
	Aluminum	492000	ug/L	500000	ug/L	98.3	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Antimony	486	ug/L	500	ug/L	97.2	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Arsenic	505	ug/L	500	ug/L	101	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Barium	490	ug/L	500	ug/L	98	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Beryllium	247	ug/L	250	ug/L	99	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Boron	510	ug/L	500	ug/L	102	80.0 − 120.0	05−NOV−13 10:00	110513A−1

METALS
−4−
Interference Check Sample

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

ICS:

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
	Cadmium	462	ug/L	500	ug/L	92.4	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Calcium	475000	ug/L	500000	ug/L	94.9	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Chromium	471	ug/L	500	ug/L	94.2	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Cobalt	445	ug/L	500	ug/L	89	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Copper	539	ug/L	500	ug/L	108	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Iron	188000	ug/L	200000	ug/L	93.8	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Lead	476	ug/L	500	ug/L	95.2	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Magnesium	470000	ug/L	500000	ug/L	94.1	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Manganese	471	ug/L	500	ug/L	94.2	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Molybdenum	496	ug/L	500	ug/L	99.1	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Nickel	443	ug/L	500	ug/L	88.7	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Phosphorous	2540	ug/L	2500	ug/L	101	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Selenium	2340	ug/L	2500	ug/L	93.7	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Silica	10500	ug/L	10700	ug/L	97.7	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Silver	271	ug/L	250	ug/L	108	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Strontium	501	ug/L	500	ug/L	100	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Thallium	454	ug/L	500	ug/L	90.8	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Uranium	538	ug/L	500	ug/L	108	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Vanadium	520	ug/L	500	ug/L	104	80.0 − 120.0	05−NOV−13 10:00	110513A−1
	Zinc	466	ug/L	500	ug/L	93.2	80.0 − 120.0	05−NOV−13 10:00	110513A−1

METALS
−4−
Interference Check Sample

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

ICS: O2Si

Instrument: OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Potassium	50.6	ug/L					06−NOV−13 07:15	110613−2
	Sodium	27.2	ug/L					06−NOV−13 07:15	110613−2
	Tin	11.9	ug/L					06−NOV−13 07:15	110613−2
ICSAB01									
	Potassium	5260	ug/L	5000	ug/L	105	80.0 − 120.0	06−NOV−13 07:18	110613−2
	Sodium	5070	ug/L	5000	ug/L	101	80.0 − 120.0	06−NOV−13 07:18	110613−2
	Tin	488	ug/L	500	ug/L	97.5	80.0 − 120.0	06−NOV−13 07:18	110613−2
ICSA02									
	Potassium	−12.6	ug/L					06−NOV−13 08:16	110613−2
	Sodium	17.6	ug/L					06−NOV−13 08:16	110613−2
	Tin	12.9	ug/L					06−NOV−13 08:16	110613−2
ICSAB02									
	Potassium	5240	ug/L	5000	ug/L	105	80.0 − 120.0	06−NOV−13 08:19	110613−2
	Sodium	5060	ug/L	5000	ug/L	101	80.0 − 120.0	06−NOV−13 08:19	110613−2
	Tin	481	ug/L	500	ug/L	96.3	80.0 − 120.0	06−NOV−13 08:19	110613−2

METALS
−4−
Interference Check Sample

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

ICS: O2Si

Instrument: OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Tin	−5.8	ug/L					07−NOV−13 11:27	110713−3
ICSAB01									
	Tin	484	ug/L	500	ug/L	96.8	80.0 − 120.0	07−NOV−13 11:29	110713−3
ICSA02									
	Tin	−6.9	ug/L					07−NOV−13 13:01	110713−3
ICSAB02									
	Tin	471	ug/L	500	ug/L	94.2	80.0 − 120.0	07−NOV−13 13:04	110713−3

METALS
−4−
Interference Check Sample

SDG No: 335304

Contract: MDNR00101 **Lab Code:** GEL

ICS: O2Si

Instrument: OPTIMA4

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Lead	0.0027	ug/L					06−NOV−13 13:31	110613A−4
	Potassium	−61.3	ug/L					06−NOV−13 13:31	110613A−4
	Sodium	14.9	ug/L					06−NOV−13 13:31	110613A−4
	Tin	0.0009	ug/L					06−NOV−13 13:31	110613A−4
ICSAB01									
	Lead	474	ug/L	500	ug/L	94.8	80.0 − 120.0	06−NOV−13 13:33	110613A−4
	Potassium	5070	ug/L	5000	ug/L	101	80.0 − 120.0	06−NOV−13 13:33	110613A−4
	Sodium	4960	ug/L	5000	ug/L	99.2	80.0 − 120.0	06−NOV−13 13:33	110613A−4
	Tin	461	ug/L	500	ug/L	92.2	80.0 − 120.0	06−NOV−13 13:33	110613A−4
ICSA02									
	Lead	4.72	ug/L					06−NOV−13 15:19	110613A−4
	Potassium	−28.7	ug/L					06−NOV−13 15:19	110613A−4
	Sodium	−1.83	ug/L					06−NOV−13 15:19	110613A−4
	Tin	0.363	ug/L					06−NOV−13 15:19	110613A−4
ICSAB02									
	Lead	479	ug/L	500	ug/L	95.8	80.0 − 120.0	06−NOV−13 15:21	110613A−4
	Potassium	5260	ug/L	5000	ug/L	105	80.0 − 120.0	06−NOV−13 15:21	110613A−4
	Sodium	5550	ug/L	5000	ug/L	111	80.0 − 120.0	06−NOV−13 15:21	110613A−4
	Tin	472	ug/L	500	ug/L	94.4	80.0 − 120.0	06−NOV−13 15:21	110613A−4

METALS
−5a−

Matrix Spike Summary

SDG NO. 335304 **Client ID** WLL20131007A3S

Contract: MDNR00101 **Level:** Low

Matrix: GROUND WATER **% Solids:**

Sample ID: 335304001 **Spike ID:** 1202969092

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M*
Antimony	ug/L	75−125	456		3.5	U	500	90.8		P
Arsenic	ug/L	75−125	533		9.43	B	500	105		P
Barium	ug/L	75−125	1100		600		500	99.5		P
Beryllium	ug/L	75−125	526		1	U	500	105		P
Boron	ug/L	75−125	1150		634		500	103		P
Cadmium	ug/L	75−125	497		1	U	500	99.5		P
Calcium	ug/L		123000		117000		5000	108	N/A	P
Chromium	ug/L	75−125	481		12.5		500	93.6		P
Cobalt	ug/L	75−125	504		3.27	B	500	100		P
Copper	ug/L	75−125	514		3	U	500	102		P
Iron	ug/L	75−125	13600		8300		5000	106		P
Lead	ug/L	75−125	491		3.3	U	500	98.2		P
Magnesium	ug/L		69200		63600		5000	113	N/A	P
Manganese	ug/L	75−125	614		169		500	89.1		P
Molybdenum	ug/L	75−125	473		2	U	500	94.6		P
Nickel	ug/L	75−125	463		30.7		500	86.4		P
Phosphorous	ug/L	75−125	627		123	B	500	101		P
Potassium	ug/L	75−125	20900		15400		5000	111		P
Selenium	ug/L	75−125	431		6	U	500	86.3		P
Silica	ug/L	75−125	36400		27600		10700	81.8		P
Silver	ug/L	75−125	532		1	U	500	106		P
Sodium	ug/L		119000		114000		5000	98	N/A	P

METALS
−5a−

Matrix Spike Summary

SDG NO. 335304 **Client ID** WLL20131007A3S

Contract: MDNR00101 **Level:** Low

Matrix: GROUND WATER **% Solids:**

Sample ID: 335304001 **Spike ID:** 1202969092

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M*
Strontium	ug/L	75−125	1410		886		500	105		P
Thallium	ug/L	75−125	440		5	U	500	88		P
Tin	ug/L	75−125	425		2.5	U	500	85.1		P
Uranium	ug/L	75−125	463		10	U	500	91		P
Vanadium	ug/L	75−125	501		10.8		500	98		P
Zinc	ug/L	75−125	457		7.28	B	500	89.9		P
Aluminum	ug/L	75−125	5240		68	U	5000	104		P

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
−5a−

Matrix Spike Summary

SDG NO. 335304 **Client ID** WLL20131008F3S

Contract: MDNR00101 **Level:** Low

Matrix: GROUND WATER **% Solids:**

Sample ID: 335304011 **Spike ID:** 1202969097

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M*
Magnesium	ug/L		99900		94500		5000	109	N/A	P
Manganese	ug/L	75−125	526		81.4		500	88.9		P
Molybdenum	ug/L	75−125	470		2	U	500	94		P
Nickel	ug/L	75−125	435		19.1		500	83.2		P
Phosphorous	ug/L	75−125	611		105	B	500	101		P
Potassium	ug/L	75−125	19600		14800		5000	95.4		P
Selenium	ug/L	75−125	431		6	U	500	86.1		P
Silica	ug/L	75−125	45700		37200		10700	79.5		P
Silver	ug/L	75−125	526		1	U	500	105		P
Sodium	ug/L		117000		116000		5000	23	N/A	P
Strontium	ug/L		2880		2320		500	112	N/A	P
Thallium	ug/L	75−125	438		5	U	500	87.5		P
Tin	ug/L	75−125	418		25	U	500	83.6		P
Uranium	ug/L	75−125	454		10	U	500	89.6		P
Vanadium	ug/L	75−125	489		3.44	B	500	97.2		P
Zinc	ug/L	75−125	451		4.94	B	500	89.2		P
Aluminum	ug/L	75−125	5080		68	U	5000	102		P
Antimony	ug/L	75−125	464		5.19	B	500	91.7		P
Arsenic	ug/L	75−125	523		5	U	500	105		P
Barium	ug/L	75−125	1050		560		500	98.1		P
Beryllium	ug/L	75−125	516		1	U	500	103		P
Boron	ug/L	75−125	1330		817		500	102		P

METALS
−5a−

Matrix Spike Summary

SDG NO. 335304 **Client ID** WLL20131008F3S

Contract: MDNR00101 **Level:** Low

Matrix: GROUND WATER **% Solids:**

Sample ID: 335304011 **Spike ID:** 1202969097

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M*
Cadmium	ug/L	75−125	486		1	U	500	97.3		P
Calcium	ug/L		164000		158000		5000	119	N/A	P
Chromium	ug/L	75−125	461		1	U	500	92.1		P
Cobalt	ug/L	75−125	483		1.52	B	500	96.3		P
Copper	ug/L	75−125	499		6.47	B	500	98.4		P
Iron	ug/L	75−125	6980		1740		5000	105		P
Lead	ug/L	75−125	501		4.84	B	500	99.2		P

***Analytical Methods:**

P **SW846 3005/6010B**

Metals
−6−
Duplicate Sample Summary

SDG No.: 335304 **Lab Code:** GEL

Contract: MDNR00101 **Client ID:** WLL20131007A3D

Matrix: GROUND WATER **Level:** Low

Sample ID: 335304001 **Duplicate ID:** 1202969091 **Percent Solids for Dup:** N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Aluminum	ug/L		68	U	68	U			P
Antimony	ug/L		3.5	U	5.16	B	200		P
Arsenic	ug/L	+/−30	9.43	B	9.79	B	3.79		P
Barium	ug/L	+/−20%	600		597		.54		P
Beryllium	ug/L		1	U	1	U			P
Boron	ug/L	+/−20%	634		630		.584		P
Cadmium	ug/L		1	U	1	U			P
Calcium	ug/L	+/−20%	117000		116000		1.2		P
Chromium	ug/L	+/−5	12.5		12.6		.55		P
Cobalt	ug/L	+/−5	3.27	B	2.99	B	8.9		P
Copper	ug/L		3	U	3	U			P
Iron	ug/L	+/−20%	8300		8300		.0434		P
Lead	ug/L		3.3	U	3.3	U			P
Magnesium	ug/L	+/−20%	63600		63500		.137		P
Manganese	ug/L	+/−20%	169		168		.618		P
Molybdenum	ug/L		2	U	2	U			P
Nickel	ug/L	+/−20%	30.7		31.1		1.43		P
Phosphorous	ug/L	+/−150	123	B	122	B	.856		P
Potassium	ug/L	+/−20%	15400		15100		2.03		P
Selenium	ug/L		6	U	6	U			P
Silica	ug/L	+/−20%	27600		27500		.566		P
Silver	ug/L		1	U	1	U			P
Sodium	ug/L	+/−20%	114000		112000		1.65		P
Strontium	ug/L	+/−20%	886		884		.329		P
Thallium	ug/L		5	U	5	U			P
Tin	ug/L		2.5	U	2.5	U			P

Metals
−6−
Duplicate Sample Summary

SDG No.: 335304 **Lab Code:** GEL

Contract: MDNR00101 **Client ID:** WLL20131007A3D

Matrix: GROUND WATER **Level:** Low

Sample ID: 335304001 **Duplicate ID:** 1202969091 **Percent Solids for Dup:** N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Uranium	ug/L		10	U	22.6	B	200		P
Vanadium	ug/L	+/−5	10.8		11		2.24		P
Zinc	ug/L	+/−10	7.28	B	5.06	B	36.1		P

***Analytical Methods:**

P SW846 3005/6010B

Metals
−6−
Duplicate Sample Summary

SDG No.: 335304 **Lab Code:** GEL

Contract: MDNR00101 **Client ID:** WLL20131008F3D

Matrix: GROUND WATER **Level:** Low

Sample ID: 335304011 **Duplicate ID:** 1202969096 **Percent Solids for Dup:** N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Aluminum	ug/L		68	U	68	U			P
Antimony	ug/L	+/−10	5.19	B	6.37	B	20.5		P
Arsenic	ug/L		5	U	6.45	B	200		P
Barium	ug/L	+/−20%	560		558		.326		P
Beryllium	ug/L		1	U	1	U			P
Boron	ug/L	+/−20%	817		815		.232		P
Cadmium	ug/L		1	U	1	U			P
Calcium	ug/L	+/−20%	158000		159000		.764		P
Chromium	ug/L		1	U	1.01	B	200		P
Cobalt	ug/L	+/−5	1.52	B	1.69	B	10.4		P
Copper	ug/L		6.47	B	3	U	200		P
Iron	ug/L	+/−20%	1740		1800		3.16		P
Lead	ug/L		4.84	B	3.3	U	200		P
Magnesium	ug/L	+/−20%	94500		94500		.0825		P
Manganese	ug/L	+/−20%	81.4		81		.438		P
Molybdenum	ug/L		2	U	2	U			P
Nickel	ug/L	+/−5	19.1		12		45.7	*	P
Phosphorous	ug/L	+/−150	105	B	99	B	6.25		P
Potassium	ug/L	+/−20%	14800		15000		1.09		P
Selenium	ug/L		6	U	6	U			P
Silica	ug/L	+/−20%	37200		37000		.534		P
Silver	ug/L		1	U	1	U			P
Sodium	ug/L	+/−20%	116000		117000		.258		P
Strontium	ug/L	+/−20%	2320		2350		1.31		P
Thallium	ug/L		5	U	5	U			P
Tin	ug/L		25	U	25	U			P

Metals
−6−
Duplicate Sample Summary

SDG No.: 335304 **Lab Code:** GEL

Contract: MDNR00101 **Client ID:** WLL20131008F3D

Matrix: GROUND WATER **Level:** Low

Sample ID: 335304011 **Duplicate ID:** 1202969096 **Percent Solids for Dup:** N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Uranium	ug/L		10	U	10	U			P
Vanadium	ug/L	+/−5	3.44	B	3.46	B	.751		P
Zinc	ug/L	+/−10	4.94	B	4.98	B	.784		P

***Analytical Methods:**

P SW846 3005/6010B

METALS
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Laboratory Control Sample Summary

SDG NO. 335304

Contract: MDNR00101

Aqueous LCS Source: OS2I **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M*
1202969090								
	Aluminum	ug/L	5000	5500		110	80−120	P
	Antimony	ug/L	500	469		93.7	80−120	P
	Arsenic	ug/L	500	503		101	80−120	P
	Barium	ug/L	500	537		107	80−120	P
	Beryllium	ug/L	500	533		107	80−120	P
	Boron	ug/L	500	512		102	80−120	P
	Cadmium	ug/L	500	516		103	80−120	P
	Calcium	ug/L	5000	5290		106	80−120	P
	Chromium	ug/L	500	491		98.2	80−120	P
	Cobalt	ug/L	500	529		106	80−120	P
	Copper	ug/L	500	512		102	80−120	P
	Iron	ug/L	5000	5520		110	80−120	P
	Lead	ug/L	500	530		106	80−120	P
	Magnesium	ug/L	5000	5560		111	80−120	P
	Manganese	ug/L	500	492		98.4	80−120	P
	Molybdenum	ug/L	500	483		96.7	80−120	P
	Nickel	ug/L	500	471		94.2	80−120	P
	Phosphorous	ug/L	500	505		101	80−120	P
	Potassium	ug/L	5000	5260		105	80−120	P
	Selenium	ug/L	500	460		92.1	80−120	P
	Silica	ug/L	10700	9890		92.4	80−120	P
	Silver	ug/L	500	538		108	80−120	P
	Sodium	ug/L	5000	5070		101	80−120	P
	Strontium	ug/L	500	570		114	80−120	P
	Thallium	ug/L	500	483		96.7	80−120	P
	Tin	ug/L	500	443		88.6	80−120	P
	Uranium	ug/L	500	475		95	80−120	P
	Vanadium	ug/L	500	500		99.9	80−120	P
	Zinc	ug/L	500	473		94.6	80−120	P

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
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Laboratory Control Sample Summary

SDG NO. 335304

Contract: MDNR00101

Aqueous LCS Source: OS2I **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M*
1202969095								
	Aluminum	ug/L	5000	5450		109	80−120	P
	Antimony	ug/L	500	459		91.9	80−120	P
	Arsenic	ug/L	500	507		101	80−120	P
	Barium	ug/L	500	532		106	80−120	P
	Beryllium	ug/L	500	528		106	80−120	P
	Boron	ug/L	500	508		102	80−120	P
	Cadmium	ug/L	500	513		103	80−120	P
	Calcium	ug/L	5000	5260		105	80−120	P
	Chromium	ug/L	500	478		95.5	80−120	P
	Cobalt	ug/L	500	524		105	80−120	P
	Copper	ug/L	500	496		99.2	80−120	P
	Iron	ug/L	5000	5380		108	80−120	P
	Lead	ug/L	500	515		103	80−120	P
	Magnesium	ug/L	5000	5480		110	80−120	P
	Manganese	ug/L	500	480		96	80−120	P
	Molybdenum	ug/L	500	472		94.4	80−120	P
	Nickel	ug/L	500	460		92	80−120	P
	Phosphorous	ug/L	500	500		100	80−120	P
	Potassium	ug/L	5000	5230		105	80−120	P
	Selenium	ug/L	500	446		89.2	80−120	P
	Silica	ug/L	10700	9690		90.5	80−120	P
	Silver	ug/L	500	530		106	80−120	P
	Sodium	ug/L	5000	5290		106	80−120	P
	Strontium	ug/L	500	557		111	80−120	P
	Thallium	ug/L	500	477		95.5	80−120	P
	Tin	ug/L	500	477		95.4	80−120	P
	Uranium	ug/L	500	444		88.7	80−120	P
	Vanadium	ug/L	500	486		97.3	80−120	P
	Zinc	ug/L	500	463		92.6	80−120	P

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
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Serial Dilution Sample Summary

SDG NO. 335304 **Client ID** WLL20131007A3L

Contract: MDNR00101

Matrix: LIQUID **Level:** Low

Sample ID: 335304001 **Serial Dilution ID:** 1202969093

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M*
Aluminum	68	U	340	U				P
Antimony	3.5	U	17.5	U				P
Arsenic	9.43	B	25	U	100			P
Barium	600		570		4.96		10	P
Beryllium	1	U	5	U				P
Boron	634		595		6.2			P
Cadmium	1	U	5	U				P
Calcium	117000		115000		2.1		10	P
Chromium	12.5		18	B	44.1			P
Cobalt	3.27	B	5	U	100			P
Copper	3	U	15	U				P
Iron	8300		8050		3.01		10	P
Lead	3.3	U	16.5	U				P
Magnesium	63600		62900		1.04		10	P
Manganese	169		166		1.33		10	P
Molybdenum	2	U	10	U				P
Nickel	30.7		33.3		8.72			P
Phosphorous	123	B	300	U	100			P
Potassium	15400		15600		1.38		10	P
Selenium	6	U	52.5	B				P
Silica	27600		26800		3.09		10	P
Silver	1	U	5	U				P
Sodium	114000		113000		1.15		10	P
Strontium	886		869		1.94		10	P
Thallium	5	U	25	U				P
Tin	2.5	U	12.5	U				P

METALS
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Serial Dilution Sample Summary

SDG NO. 335304 **Client ID** WLL20131007A3L

Contract: MDNR00101

Matrix: LIQUID **Level:** Low

Sample ID: 335304001 **Serial Dilution ID:** 1202969093

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M*
Uranium	10	U	50	U				P
Vanadium	10.8		10.7	B	.542			P
Zinc	7.28	B	16.5	U	100			P

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
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Serial Dilution Sample Summary

SDG NO. 335304 **Client ID** WLL20131008F3L

Contract: MDNR00101

Matrix: LIQUID **Level:** Low

Sample ID: 335304011 **Serial Dilution ID:** 1202969098

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M*
Aluminum	68	U	422	B				P
Antimony	5.19	B	19.8	B	281			P
Arsenic	5	U	25	U				P
Barium	560		547		2.31		10	P
Beryllium	1	U	5	U				P
Boron	817		796		2.56		10	P
Cadmium	1	U	5	U				P
Calcium	158000		160000		1.04		10	P
Chromium	1	U	6.26	B				P
Cobalt	1.52	B	5	U	100			P
Copper	6.47	B	15	U	100			P
Iron	1740		1750		.445		10	P
Lead	4.84	B	16.5	U	100			P
Magnesium	94500		96300		1.98		10	P
Manganese	81.4		83		2.02			P
Molybdenum	2	U	10	U				P
Nickel	19.1		21.8	B	14.4			P
Phosphorous	105	B	300	U	100			P
Potassium	14800		14600		1.44		10	P
Selenium	6	U	30	U				P
Silica	37200		36800		1.05		10	P
Silver	1	U	5	U				P
Sodium	116000		114000		1.38		10	P
Strontium	2320		2360		1.64		10	P
Thallium	5	U	25	U				P
Tin	2.5	U	12.5	U				P

METALS
−9−
Serial Dilution Sample Summary

SDG NO. 335304 **Client ID** WLL20131008F3L

Contract: MDNR00101

Matrix: LIQUID **Level:** Low

Sample ID: 335304011 **Serial Dilution ID:** 1202969098

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M*
Uranium	10	U	50	U				P
Vanadium	3.44	B	5	U	100			P
Zinc	4.94	B	16.5	U	100			P

***Analytical Methods:**

P **SW846 3005/6010B**

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 335304 **Method Type:** P

Contract: MDNR00101 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number 1339672							
1202969089	MB for batch 1339672	MB	G	04−NOV−13	50mL	50mL	
1202969090	LCS for batch 1339672	LCS	G	04−NOV−13	50mL	50mL	
1202969092	WLL20131007A3S	MS	G	04−NOV−13	50mL	50mL	
1202969091	WLL20131007A3D	DUP	G	04−NOV−13	50mL	50mL	
335304001	WLL20131007A3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304002	WLL20131007A4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304003	WLL20131007B3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304004	WLL20131007B4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304005	WLL20131007C3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304006	WLL20131007C4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304007	WLL20131007D3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304008	WLL20131007D4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304009	WLL20131008E3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304010	WLL20131008E4	SAMPLE	G	04−NOV−13	50mL	50mL	
Batch Number 1339674							
1202969094	MB for batch 1339674	MB	G	04−NOV−13	50mL	50mL	
1202969095	LCS for batch 1339674	LCS	G	04−NOV−13	50mL	50mL	
1202969097	WLL20131008F3S	MS	G	04−NOV−13	50mL	50mL	
1202969096	WLL20131008F3D	DUP	G	04−NOV−13	50mL	50mL	

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 335304 **Method Type:** P

Contract: MDNR00101 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
335304011	WLL20131008F3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304012	WLL20131008F4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304013	WLL20131008G3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304014	WLL20131008G4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304015	WLL20131008H3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304016	WLL20131008H4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304017	WLL20131008I3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304018	WLL20131008I4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304019	WLL20131009L3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304020	WLL20131009L4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304021	WLL20131008J3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304022	WLL20131008J4	SAMPLE	G	04−NOV−13	50mL	50mL	
335304023	WLL20131008K3	SAMPLE	G	04−NOV−13	50mL	50mL	
335304024	WLL20131008K4	SAMPLE	G	04−NOV−13	50mL	50mL	

Metals
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Analysis Run Log

Contract: MDNR00101
Lab Code: GEL
Inst Name: OPTIMA3
Start Date: 05−NOV−13
End Date: 05−NOV−13
Client Sdg: 335304
Method*: P
Data File: 110513A−1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	SiO2	Ag	Na	Sr	Tl	Sn	U	V	Zn
S0.0	1	08:13:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
S0.1	1	08:16:42		X	X	X	X	X	X		X	X	X		X		X	X	X	X		X	X	X		X	X		X	X	X
S0.5	1	08:18:47	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X		X	X	X
SCAL	1	08:22:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
S10	1	08:25:29	X							X				X		X															
ICV01	1	08:26:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
ICB01	1	08:29:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
PQL01	1	08:32:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
ICSA01	1	08:36:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
ICSAB01	1	08:38:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
LR01	1	08:40:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
LR02	1	08:43:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
ZZZZZZ	1	08:47:08																													
ZZZZZZ	1	08:50:31																													
CCV01	1	09:00:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCB01	1	09:04:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
LR03	1	09:07:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCV02	1	09:10:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCB02	1	09:13:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
ZZZZZZ	1	09:23:23																													
ZZZZZZ	1	09:26:29																													
ZZZZZZ	1	09:29:33																													
CCV03	1	09:32:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
PQL02	1	09:36:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCB03	1	09:39:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCV04	1	09:42:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCB04	1	09:45:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
ZZZZZZ	1	09:48:36																													
ZZZZZZ	1	09:51:43																													
ZZZZZZ	1	09:54:47																													
ICSA02	1	09:57:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
ICSAB02	1	10:00:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCV05	1	10:02:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCB05	1	10:05:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
ZZZZZZ	1	10:09:01																													
ZZZZZZ	1	10:12:08																													
ZZZZZZ	1	10:15:12																													
CCV06	1	10:18:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
PQL03	1	10:21:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCB06	1	10:24:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X

Metals
−14−
Analysis Run Log

Samp No.	D/F	Run Time																												
CCV07	1	10:27:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB07	1	10:31:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	10:34:19																												
ZZZZZZ	1	10:37:27																												
ZZZZZZ	1	10:40:31																												
CCV08	1	10:43:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PQL04	1	10:46:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB08	1	10:50:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	10	10:53:11																												
ZZZZZZ	1	10:56:16																												
CCV09	1	11:03:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB09	1	11:06:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	11:20:36																												
ZZZZZZ	1	11:23:43																												
ZZZZZZ	1	11:27:03																												
ZZZZZZ	1	11:29:42																												
ZZZZZZ	1	11:32:20																												
ZZZZZZ	1	11:34:57																												
ZZZZZZ	1	11:37:35																												
ZZZZZZ	5	11:40:14																												
ZZZZZZ	5	11:43:35																												
CCV10	1	11:46:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PQL05	1	11:50:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB10	1	11:53:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	10	11:56:29																												
CCV11	1	11:59:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB11	1	12:02:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1202969089	1	12:29:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1202969090	1	12:32:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
335304001	1	12:36:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1202969091	1	12:38:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1202969092	1	12:40:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1202969093	5	12:43:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV12	1	12:46:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB12	1	12:49:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
335304002	1	12:52:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
335304003	1	12:54:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
335304004	1	12:56:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
335304005	1	12:59:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
335304006	1	13:01:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Metals
−14−
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	SiO2	Ag	Na	Sr	Tl	Sn	U	V	Zn
335304007	1	13:03:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
335304008	1	13:06:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
335304009	1	13:08:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
335304010	1	13:11:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCV13	1	13:14:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCB13	1	13:18:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
1202969094	1	13:31:38	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
1202969095	1	13:34:44	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304011	1	13:38:04	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
1202969096	1	13:41:08	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
1202969097	1	13:44:12	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
1202969098	5	13:46:47	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304012	1	13:49:51	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304013	1	13:52:55	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304014	1	13:55:14	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
CCV14	1	13:57:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCB14	1	14:00:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
335304015	1	14:04:00	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304016	1	14:06:23	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304017	1	14:08:42	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304018	1	14:11:01	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304019	1	14:13:20	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304020	1	14:15:40	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304021	1	14:17:59	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304022	1	14:20:18	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304023	1	14:22:37	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
335304024	1	14:24:56	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X		X	X		X	X	X
CCV15	1	14:27:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X
CCB15	1	14:30:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X

Metals
−14−
Analysis Run Log

Contract: MDNR00101
Lab Code: GEL
Inst Name: OPTIMA4
Start Date: 06−NOV−13
End Date: 06−NOV−13
Client Sdg: 335304
Method*: P
Data File: 110613−2

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	SiO2	Ag	Na	Sr	Tl	Sn	U	V	Zn
S0.0	1	06:50:53																			X				X			X			
S0.1	1	06:55:03																			X							X			
S0.5	1	06:57:14																			X							X			
SCAL	1	07:00:24																			X				X			X			
S10	1	07:03:35																							X						
ICV01	1	07:04:45																			X				X			X			
ICB01	1	07:07:51																			X				X			X			
PQL01	1	07:11:55																			X				X			X			
ICSA01	1	07:15:59																			X				X			X			
ICSAB01	1	07:18:11																			X				X			X			
LR01	1	07:20:22																			X				X			X			
LR02	1	07:22:34																			X				X			X			
CCV01	1	07:26:03																			X				X			X			
CCB01	1	07:29:17																			X				X			X			
ZZZZZZ	1	07:33:43																													
ZZZZZZ	1	07:37:50																													
ZZZZZZ	1	07:41:54																													
CCV02	1	07:45:58																			X				X			X			
PQL02	1	07:49:10																			X				X			X			
CCB02	1	07:53:16																			X				X			X			
CCV03	1	07:57:21																			X				X			X			
CCB03	1	08:00:32																			X				X			X			
ZZZZZZ	1	08:04:36																													
ZZZZZZ	1	08:08:43																													
ZZZZZZ	1	08:12:48																													
ICSA02	1	08:16:53																			X				X			X			
ICSAB02	1	08:19:06																			X				X			X			
CCV04	1	08:21:17																			X				X			X			
CCB04	1	08:24:28																			X				X			X			
ZZZZZZ	1	08:28:32																													
ZZZZZZ	1	08:32:39																													
ZZZZZZ	1	08:36:29																													
CCV05	1	08:40:33																			X				X			X			
PQL03	1	08:43:47																			X				X			X			
CCB05	1	08:47:54																			X				X			X			
CCV06	1	08:52:01																			X				X			X			
CCB06	1	08:55:13																			X				X			X			
ZZZZZZ	1	08:59:17																													
ZZZZZZ	1	09:03:25																													
ZZZZZZ	1	09:07:30																													

Metals
−14−
Analysis Run Log

Samp No.	D/F	Run Time																											
CCV07	1	09:11:34																	X				X			X			
PQL04	1	09:14:46																	X				X			X			
CCB07	1	09:18:53																	X				X			X			
ZZZZZZ	10	09:23:00																											
CCV08	1	09:27:05																	X				X			X			
CCB08	1	09:30:16																	X				X			X			
ZZZZZZ	50	09:36:10																											
ZZZZZZ	250	09:39:29																											
CCV09	1	09:42:39																	X				X			X			
PQL05	1	09:45:52																	X				X			X			
CCB09	1	09:49:58																	X				X			X			
ZZZZZZ	500	09:54:03																											
CCV10	1	09:58:08																	X				X			X			
CCB10	1	10:01:20																	X				X			X			
1202969089	1	10:10:54																	X				X			X			
1202969090	1	10:15:01																	X				X			X			
335304001	1	10:18:12																	X				X			X			
1202969091	1	10:21:17																	X				X			X			
1202969092	1	10:24:22																	X				X			X			
1202969093	5	10:26:39																	X				X			X			
335304002	1	10:29:49																	X				X			X			
335304003	1	10:32:54																	X				X			X			
335304004	1	10:35:06																	X				X			X			
CCV11	1	10:37:18																	X				X			X			
CCB11	1	10:40:32																	X				X			X			
ZZZZZZ	1	10:44:36																											
ZZZZZZ	1	10:46:51																											
335304007	1	10:49:02																	X				X						
335304008	1	10:51:14																	X				X						
335304009	1	10:53:25																	X				X						
335304010	1	10:56:30																	X				X						
335304005	5	10:59:35																	X				X						
335304006	5	11:02:46																	X				X						
CCV12	1	11:05:56																	X				X			X			
CCB12	1	11:09:09																	X				X			X			

Metals
−14−
Analysis Run Log

Contract: MDNR00101
Lab Code: GEL
Inst Name: OPTIMA4
Start Date: 06−NOV−13
End Date: 06−NOV−13
Client Sdg: 335304
Method*: P
Data File: 110613A−4

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	SiO2	Ag	Na	Sr	Tl	Sn	U	V	Zn
S0.0	1	13:05:56													X						X				X			X			
S0.1	1	13:10:06													X						X							X			
S0.5	1	13:12:17													X						X							X			
SCAL	1	13:15:27													X						X				X			X			
S10	1	13:18:39																							X						
ICV01	1	13:19:50													X						X				X			X			
ICB01	1	13:22:56													X						X				X			X			
PQL01	1	13:27:00													X						X				X			X			
ICSA01	1	13:31:05													X						X				X			X			
ICSAB01	1	13:33:17													X						X				X			X			
LR01	1	13:35:28													X						X				X			X			
LR02	1	13:37:39													X						X				X			X			
CCV01	1	13:41:08													X						X				X			X			
CCB01	1	13:44:21													X						X				X			X			
ZZZZZZ	1	14:44:12																													
CCV02	1	14:48:20													X						X				X			X			
PQL02	1	14:51:33													X						X				X			X			
CCB02	1	14:55:38													X						X				X			X			
CCV03	1	14:59:44													X						X				X			X			
CCB03	1	15:02:55													X						X				X			X			
ZZZZZZ	1	15:06:59																													
ZZZZZZ	1	15:11:05																													
ZZZZZZ	1	15:15:09																													
ICSA02	1	15:19:13													X						X				X			X			
ICSAB02	1	15:21:26													X						X				X			X			
CCV04	1	15:23:37													X						X				X			X			
CCB04	1	15:26:49													X						X				X			X			
ZZZZZZ	20	15:31:04																													
ZZZZZZ	20	15:34:23																													
ZZZZZZ	20	15:37:39																													
ZZZZZZ	20	15:40:55																													
ZZZZZZ	100	15:44:06																													
CCV05	1	15:47:16													X						X				X			X			
PQL03	1	15:50:30													X						X				X			X			
CCB05	1	15:54:36													X						X				X			X			
CCV06	1	15:58:41													X						X				X			X			
CCB06	1	16:01:54													X						X				X			X			
ZZZZZZ	1	16:05:59																													
ZZZZZZ	1	16:10:06																													
ZZZZZZ	1	16:14:10																													

Metals
−14−
Analysis Run Log

Samp No.	D/F	Run Time																											
CCV07	1	16:18:14												X						X				X			X			
PQL04	1	16:21:28												X						X				X			X			
CCB07	1	16:25:34												X						X				X			X			
CCV08	1	16:29:41												X						X				X			X			
CCB08	1	16:32:52												X						X				X			X			
ZZZZZZ	1	16:36:56																												
ZZZZZZ	1	16:41:03																												
ZZZZZZ	1	16:45:07																												
CCV09	1	16:49:11												X						X				X			X			
PQL05	1	16:52:23												X						X				X			X			
CCB09	1	16:56:30												X						X				X			X			
ZZZZZZ	10	17:00:37																												
CCV10	1	17:04:43												X						X				X			X			
CCB10	1	17:07:55												X						X				X			X			
ZZZZZZ	1	17:15:08																												
ZZZZZZ	1	17:19:14																												
ZZZZZZ	1	17:23:19																												
CCV11	1	17:27:24												X						X				X			X			
PQL06	1	17:30:38												X						X				X			X			
CCB11	1	17:34:43												X						X				X			X			
ZZZZZZ	10	17:38:49																												
CCV12	1	17:42:54												X						X				X			X			
CCB12	1	17:46:07												X						X				X			X			
CCV13	1	18:01:05												X						X				X			X			
CCB13	1	18:04:17												X						X				X			X			
335304005	1	18:09:42																									X			
335304006	1	18:11:55																									X			
ZZZZZZ	1	18:14:06																												
335304008	1	18:16:17																									X			
ZZZZZZ	1	18:18:28																												
ZZZZZZ	1	18:21:33																												
CCV14	1	18:24:38												X						X				X			X			
CCB14	1	18:27:52												X						X				X			X			
1202969094	1	18:31:56												X						X				X			X			
1202969095	1	18:36:03												X						X				X			X			
335304011	1	18:39:14												X						X				X						
1202969096	1	18:42:19												X						X				X						
1202969097	1	18:45:24												X						X				X						
1202969098	5	18:48:35												X						X				X						
335304012	1	18:51:40												X						X				X						

Metals
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Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	SiO2	Ag	Na	Sr	Tl	Sn	U	V	Zn
335304013	1	18:54:45													X						X				X						
335304014	1	18:56:56													X						X				X						
CCV15	1	18:59:07													X						X				X			X			
CCB15	1	19:02:20													X						X				X			X			
335304015	1	19:06:24													X						X				X						
335304016	1	19:08:37													X						X				X						
335304017	1	19:10:48													X						X				X						
335304018	1	19:12:59													X						X				X						
335304019	1	19:15:10													X						X				X						
335304020	1	19:17:21													X						X				X						
335304021	1	19:19:32													X						X				X						
335304022	1	19:21:43													X						X				X						
335304023	1	19:23:54													X						X				X						
335304024	1	19:26:05													X						X				X						
CCV16	1	19:28:16													X						X				X			X			
CCB16	1	19:31:28													X						X				X			X			

Metals
−14−
Analysis Run Log

Contract: MDNR00101
Lab Code: GEL
Inst Name: OPTIMA4
Start Date: 07−NOV−13
End Date: 07−NOV−13
Client Sdg: 335304
Method*: P
Data File: 110713−3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	SiO2	Ag	Na	Sr	Tl	Sn	U	V	Zn
S0.0	1	11:02:26																										X			
S0.1	1	11:06:35																										X			
S0.5	1	11:08:46																										X			
SCAL	1	11:11:57																										X			
S10	1	11:15:09																													
ICV01	1	11:16:19																										X			
ICB01	1	11:19:26																										X			
PQL01	1	11:23:30																										X			
ICSA01	1	11:27:34																										X			
ICSAB01	1	11:29:46																										X			
LR01	1	11:31:57																										X			
LR02	1	11:34:08																										X			
CCV01	1	11:37:37																										X			
CCB01	1	11:40:50																										X			
CCV02	1	11:54:55																										X			
CCB02	1	11:58:07																										X			
LR03	1	12:02:11																										X			
LR04	1	12:05:29																										X			
CCV03	1	12:09:34																										X			
CCB03	1	12:12:47																										X			
ZZZZZZ	1	12:16:51																													
ZZZZZZ	1	12:20:57																													
ZZZZZZ	1	12:25:01																													
CCV04	1	12:29:06																										X			
PQL02	1	12:32:19																										X			
CCB04	1	12:36:25																										X			
CCV05	1	12:40:30																										X			
CCB05	1	12:43:42																										X			
ZZZZZZ	1	12:47:46																													
ZZZZZZ	1	12:53:47																													
ZZZZZZ	1	12:57:53																													
ICSA02	1	13:01:57																										X			
ICSAB02	1	13:04:10																										X			
CCV06	1	13:06:21																										X			
CCB06	1	13:09:34																										X			
ZZZZZZ	1	13:14:38																													
ZZZZZZ	1	13:18:49																													
ZZZZZZ	1	13:22:05																													
ZZZZZZ	1	13:25:16																													
ZZZZZZ	1	13:28:32																													

Metals
−14−
Analysis Run Log

Samp No.	D/F	Run Time																											
ZZZZZZ	1	13:31:48																											
ZZZZZZ	5	13:34:59																											
CCV07	1	13:38:09																							X				
PQL03	1	13:41:23																							X				
CCB07	1	13:45:29																							X				
ZZZZZZ	10	13:49:36																											
CCV08	1	13:53:41																							X				
CCB08	1	13:56:53																							X				
ZZZZZZ	1	14:01:08																											
ZZZZZZ	1	14:05:15																											
ZZZZZZ	10	14:08:26																											
ZZZZZZ	50	14:11:47																											
ZZZZZZ	10	14:14:59																											
ZZZZZZ	10	14:19:03																											
ZZZZZZ	10	14:23:07																											
ZZZZZZ	50	14:27:12																											
CCV09	1	14:31:16																							X				
PQL04	1	14:34:30																							X				
CCB09	1	14:38:36																							X				
ZZZZZZ	100	14:42:43																											
CCV10	1	14:46:49																							X				
CCB10	1	14:50:01																							X				
CCV11	1	15:01:32																							X				
CCB11	1	15:04:45																							X				
CCV12	1	15:24:05																							X				
CCB12	1	15:27:17																							X				
ZZZZZZ	1	15:31:21																											
ZZZZZZ	1	15:35:27																											
ZZZZZZ	1	15:38:43																											
ZZZZZZ	1	15:42:00																											
ZZZZZZ	1	15:45:11																											
ZZZZZZ	1	15:48:28																											
ZZZZZZ	1	15:51:45																											
ZZZZZZ	5	15:55:01																											
CCV13	1	15:58:11																							X				
CCB13	1	16:01:25																							X				
ZZZZZZ	1	16:05:29																											
ZZZZZZ	1	16:08:43																											
ZZZZZZ	5	16:11:53																											
335304009	5	16:15:03																							X				

Metals
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Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	SiO2	Ag	Na	Sr	Tl	Sn	U	V	Zn
335304007	20	16:21:20																										X			
335304010	5	16:24:33																										X			
ZZZZZZ	20	16:27:46																													
CCV14	1	16:31:51																										X			
CCB14	1	16:35:04																										X			
CCV15	1	17:02:08																										X			
CCB15	1	17:05:21																										X			
335304011	10	17:09:25																										X			
1202969096	10	17:12:37																										X			
1202969097	10	17:15:48																										X			
1202969098	50	17:18:58																										X			
335304012	10	17:23:02																										X			
335304013	10	17:26:12																										X			
335304014	10	17:29:22																										X			
335304015	10	17:32:32																										X			
CCV16	1	17:35:42																										X			
CCB16	1	17:38:56																										X			
335304016	10	17:43:00																										X			
335304017	10	17:46:14																										X			
ZZZZZZ	10	17:49:24																													
335304019	10	17:52:34																										X			
ZZZZZZ	10	17:55:45																													
335304021	10	17:58:55																										X			
335304022	10	18:02:05																										X			
335304023	10	18:05:15																										X			
335304024	10	18:08:25																										X			
CCV17	1	18:11:35																										X			
CCB17	1	18:14:48																										X			
335304018	20	18:21:09																										X			
335304020	20	18:24:23																										X			
CCV18	1	18:27:36																										X			
CCB18	1	18:30:49																										X			

Standards

METALS
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Instrument Detection Limits

SDG NO. 335304

Contract: MDNR00101 **Lab Code: GEL** **MDL Effective Date:** 23−JAN−11

ICP	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
LIQUID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.5	10.0
	Arsenic	188.979	5.0	30.0
	Barium	233.527	1.0	5.0
	Beryllium	313.107	1.0	5.0
	Boron	249.677	15.0	50.0
	Cadmium	226.502	1.0	5.0
	Calcium	317.933	50.0	200
	Chromium	267.716	1.0	5.0
	Cobalt	228.616	1.0	5.0
	Copper	324.752	3.0	10.0
	Iron	238.204	30.0	100
	Lead	220.353	3.3	10.0
	Magnesium	279.077	110	300
	Manganese	257.61	2.0	10.0
	Molybdenum	202.031	2.0	10.0
	Nickel	231.604	1.5	5.0
	Phosphorous	214.914	60.0	150
	Potassium	766.49	50.0	150
	Selenium	196.026	6.0	30.0
	Silica		53.0	213
	Silver	328.068	1.0	5.0
	Sodium	589.592	100	300
	Strontium	421.552	1.0	5.0
	Thallium	190.801	5.0	20.0
	Tin	189.927	2.5	10.0
	Uranium	409.014	10.0	50.0
	Vanadium	292.402	1.0	5.0
	Zinc	213.857	3.3	10.0

METALS
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Interelement Correction Factors

Lab Code: GEL
GEL Job No: 335304
Contract: MDNR00101
Instrument: OPTIMA3
Effective Dates: 01−AUG−13
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**	0.02565	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	−0.71096	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**	0.52757	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**	−0.39654	0.00000	0.00000	0.00000	0.00000
Potassium	**766.49**	0.02174	0.00000	0.00000	10.5416	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**	0.14826	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	**367.007**	0.00000	0.00000	0.00000	−1.33719	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
Contract: MDNR00101
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 335304
Effective Dates: 01−AUG−13

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	0.00000	22.2860	0.00000
Arsenic	**188.979**	0.00000	0.00000	0.00000	−6.05753	0.00000
Barium	**233.527**	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	**313.107**	0.00000	0.00000	−0.00973	−0.19966	0.00000
Boron	**249.677**	0.00000	0.00000	0.00000	−1.58432	3.16472
Cadmium	**226.502**	0.00000	0.00000	0.00000	0.00000	−0.21752
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	0.25891	0.00000
Copper	**324.752**	0.00000	0.00000	0.00000	−0.15331	0.00000
Iron	**238.204**	0.00000	0.00000	0.00000	0.00000	−10.2710
Lead	**220.353**	0.00000	0.00000	−0.07882	0.00000	−0.65581
Magnesium	**279.077**	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	**257.61**	0.00000	0.00000	0.00000	−0.00771	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	0.75873
Phosphorous	**214.914**	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	**766.49**	0.00000	0.00000	0.03073	5.01544	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	−0.00216	0.00000	0.00000
Sodium	**589.592**	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	**421.552**	0.00000	0.00000	0.03947	0.00000	0.00000
Sulfur	**181.975**	0.00000	0.00000	−0.01424	−0.83000	0.00000
Thallium	**190.801**	0.00000	0.00000	0.00000	0.00000	1.64126
Tin	**189.927**	0.00000	0.00000	−0.33202	−0.00260	0.00000
Titanium	**334.94**	0.00000	0.00000	−0.03229	0.36819	0.00000
Uranium	**367.007**	0.00000	0.00000	0.18662	−0.96273	2.87598
Vanadium	**292.402**	0.00000	0.00000	0.00000	−2.97192	0.00000
Zinc	**213.857**	0.00000	0.00000	0.01356	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL
GEL Job No: 335304
Contract: MDNR00101
Instrument: OPTIMA3
Effective Dates: 01−AUG−13
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Copper	Iron	Lead	Magnesium	Manganese
Aluminum	**396.153**	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	**206.836**	0.00000	0.01864	0.00000	0.00000	0.00000
Arsenic	**188.979**	0.00000	−0.09978	0.00000	0.00000	0.00000
Barium	**233.527**	0.00000	0.01717	0.00000	0.00000	0.00000
Beryllium	**313.107**	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	**249.677**	0.00000	0.08775	0.00000	0.00000	0.00000
Cadmium	**226.502**	0.00000	0.10697	0.00000	0.00000	0.00000
Calcium	**317.933**	0.00000	0.00000	0.00000	0.24303	0.00000
Chromium	**267.716**	0.00000	−0.02028	0.00000	−0.02371	0.75492
Cobalt	**228.616**	0.00000	0.01319	0.00000	0.00000	0.00000
Copper	**324.752**	0.00000	−0.04689	0.00000	0.00000	0.00000
Iron	**238.204**	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	**220.353**	0.17151	−0.00702	0.00000	0.00000	0.00000
Magnesium	**279.077**	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	**257.61**	0.00000	−0.07958	0.00000	0.03672	0.00000
Molybdenum	**202.031**	0.00000	−0.03679	0.00000	0.00000	0.00000
Nickel	**231.604**	0.00000	−0.01874	0.00000	0.00000	0.00000
Phosphorous	**214.914**	13.4088	0.79307	0.00000	0.00000	0.00000
Potassium	**766.49**	0.00000	−0.38844	0.00000	0.12643	0.00000
Selenium	**196.026**	0.00000	−0.29259	0.00000	0.00000	0.00000
Silicon	**251.611**	0.00000	−0.17773	0.00000	0.06528	0.00000
Silver	**328.068**	0.00000	−0.26332	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	−0.08174	0.00000	−0.03636	3.94133
Thallium	**190.801**	0.00000	0.00000	0.00000	0.00000	−0.87905
Tin	**189.927**	0.00000	0.00000	0.00000	0.06194	0.00000
Titanium	**334.94**	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	**367.007**	0.00000	5.66443	0.00000	−0.00823	−3.76438
Vanadium	**292.402**	0.00000	−0.01825	0.00000	0.00000	0.00000
Zinc	**213.857**	0.57905	0.10019	0.00000	0.01199	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL
GEL Job No: 335304
Contract: MDNR00101
Instrument: OPTIMA3
Effective Dates: 01−AUG−13
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Molybdenum	Nickel	Phosphorous	Potassium	Selenium
Aluminum	**396.153**	34.6025	0.00000	0.00000	0.00000	0.00000
Antimony	**206.836**	−12.0885	0.00000	0.00000	0.00000	0.00000
Arsenic	**188.979**	4.62198	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	0.44087	0.00000
Cadmium	**226.502**	0.00000	−0.34729	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**	−1.42685	0.00000	0.00000	0.00000	0.00000
Copper	**324.752**	0.69998	0.00000	0.00000	0.00000	0.00000
Iron	**238.204**	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	**220.353**	−3.57123	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**	6.50448	0.00000	0.00000	0.00000	0.00000
Potassium	**766.49**	−4.16252	0.00000	0.00000	0.00000	0.00000
Selenium	**196.026**	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	**251.611**	13.6118	0.00000	0.00000	9.71521	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**	−11.3448	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	**367.007**	0.00000	0.00000	0.00000	0.00222	0.00000
Vanadium	**292.402**	−11.5210	0.00000	0.00000	0.00000	0.00000
Zinc	**213.857**	0.00000	5.93557	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL
Contract: MDNR00101
Instrument: OPTIMA3
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 335304
Effective Dates: 01−AUG−13

Parmname	Wavelength	Silicon	Silver	Sodium	Strontium	Sulfur
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	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.56938	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	367.007	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: 335304
Contract: MDNR00101
Instrument: OPTIMA3
Effective Dates: 01−AUG−13
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Thallium	Tin	Titanium	Uranium	Vanadium
Aluminum	**396.153**	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	**206.836**	0.00000	−3.20669	−2.54615	0.00000	−2.53955
Arsenic	**188.979**	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	**233.527**	0.00000	0.00000	0.00000	0.00000	−1.36480
Beryllium	**313.107**	0.00000	0.00000	0.00000	−0.20338	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	0.45004	−0.61464
Cobalt	**228.616**	0.00000	0.00000	2.12508	0.00000	0.00000
Copper	**324.752**	0.00000	0.00000	0.00000	−0.68213	0.00000
Iron	**238.204**	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	**220.353**	0.00000	0.00000	0.04892	0.80498	0.00000
Magnesium	**279.077**	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	**257.61**	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	**202.031**	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	**231.604**	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	**214.914**	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	**766.49**	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	**196.026**	0.00000	0.00000	0.00000	−0.89891	−0.74228
Silicon	**251.611**	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	**328.068**	0.00000	0.00000	0.00000	0.00000	−6.53357
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	−1.16424	−1.77712	0.00000	0.00000
Thallium	**190.801**	0.00000	0.00000	−3.12420	−0.43951	0.00000
Tin	**189.927**	0.00000	0.00000	−3.37760	0.00000	0.00000
Titanium	**334.94**	0.00000	0.00000	0.00000	0.42507	0.00000
Uranium	**367.007**	0.00000	0.00000	−3.57421	0.00000	−3.46116
Vanadium	**292.402**	0.00000	0.00000	0.92434	−0.75939	0.00000
Zinc	**213.857**	0.00000	0.00000	−0.64492	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL
GEL Job No: 335304
Contract: MDNR00101
Instrument: OPTIMA3
Effective Dates: 01−AUG−13
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	367.007	0.00000
Vanadium	292.402	0.00000
Zinc	213.857	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL
GEL Job No: 335304
Contract: MDNR00101
Instrument: OPTIMA4
Effective Dates: 01−AUG−13
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Boron
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
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	−0.44645	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**	−0.03619	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**	−0.16796	0.00000	0.00000	0.00000	0.00000
Potassium	**766.49**	0.00000	0.00000	0.00000	24.9148	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**	0.29702	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	**367.007**	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
Contract: MDNR00101
Instrument: OPTIMA4
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 335304
Effective Dates: 01−AUG−13

Parmname	Wavelength	Cadmium	Calcium	Chromium	Cobalt	Copper
Aluminum	**396.153**	0.00000	−0.14746	0.00000	0.00000	0.00000
Antimony	**206.836**	0.00000	0.00000	14.3644	0.00000	0.00000
Arsenic	**188.979**	0.00000	0.00000	−7.69270	0.00000	0.00000
Barium	**233.527**	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	**249.677**	0.00000	0.00000	0.00000	−3.45241	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	0.06073	0.00000	0.00000
Copper	**324.752**	0.00000	0.00000	−0.12397	−0.61678	0.00000
Iron	**238.204**	0.00000	0.00000	0.00000	−25.6700	0.00000
Lead	**220.353**	0.00000	0.00000	0.00000	0.00000	0.34795
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	0.00212	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	11.2438
Potassium	**766.49**	0.00000	0.01883	0.00000	4.96830	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	0.03195	0.00000	0.00000	0.00000
Sodium	**589.592**	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	**421.552**	0.00000	0.03649	0.00000	0.00000	0.00000
Sulfur	**181.975**	0.00000	−0.00395	0.00000	0.00000	0.00000
Thallium	**190.801**	0.00000	0.00000	0.00000	8.66385	0.00000
Tin	**189.927**	0.00000	−0.03996	0.00000	0.00000	0.00000
Titanium	**334.94**	0.00000	−0.04807	0.35907	0.00000	0.00000
Uranium	**367.007**	0.00000	0.13883	0.60808	2.92138	0.00000
Vanadium	**292.402**	0.00000	0.00000	−2.32000	0.00000	0.00000
Zinc	**213.857**	0.00000	0.00000	0.00000	0.00000	0.64042

METALS
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Interelement Correction Factors

Lab Code: GEL
GEL Job No: 335304
Contract: MDNR00101
Instrument: OPTIMA4
Effective Dates: 01−AUG−13
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Iron	Lead	Magnesium	Manganese	Molybdenum
Aluminum	**396.153**	0.00000	0.00000	0.00000	0.00000	25.9211
Antimony	**206.836**	0.02018	0.00000	0.00000	0.00000	−7.71604
Arsenic	**188.979**	−0.20429	0.00000	0.00000	0.00000	−4.23924
Barium	**233.527**	0.00982	0.00000	0.00000	0.00000	0.00000
Boron	**249.677**	4.88539	0.00000	0.00000	0.00000	0.00000
Cadmium	**226.502**	0.08924	0.00000	0.00000	0.00000	0.00000
Calcium	**317.933**	0.00000	0.00000	0.23098	0.00000	0.00000
Chromium	**267.716**	−0.02779	0.00000	0.00921	0.28308	0.00000
Cobalt	**228.616**	0.01744	0.00000	0.00000	0.00000	−1.20096
Copper	**324.752**	−0.21816	0.00000	−0.02010	0.00000	0.40644
Iron	**238.204**	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	**220.353**	0.02607	0.00000	0.00000	0.00000	−2.59928
Magnesium	**279.077**	−0.24729	0.00000	0.00000	0.00000	0.00000
Manganese	**257.61**	0.00000	0.00000	0.03561	0.00000	0.00000
Molybdenum	**202.031**	−0.04087	0.00000	−0.03334	0.00000	0.00000
Nickel	**231.604**	0.01186	0.00000	0.00000	0.00000	0.00000
Phosphorous	**214.914**	1.00393	0.00000	0.00000	0.00000	7.24597
Potassium	**766.49**	−0.51017	0.00000	0.00000	0.00000	0.00000
Selenium	**196.026**	−0.33657	0.00000	0.00000	0.00000	0.00000
Silicon	**251.611**	−0.11372	0.00000	0.00000	0.00000	13.9576
Silver	**328.068**	0.00707	0.00000	0.00000	0.00000	−0.43112
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**	0.03239	0.00000	0.00730	0.00000	−2.50300
Thallium	**190.801**	0.00000	0.00000	0.00000	2.16293	−1.23162
Tin	**189.927**	−0.01147	0.00000	0.00000	0.00000	0.00000
Titanium	**334.94**	0.00000	0.00000	0.00764	0.00000	0.00000
Uranium	**367.007**	6.00304	0.00000	0.00000	0.00000	0.00000
Vanadium	**292.402**	−0.14879	0.00000	0.00000	0.00000	−12.7453
Zinc	**213.857**	0.08961	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL
GEL Job No: 335304
Contract: MDNR00101
Instrument: OPTIMA4
Effective Dates: 01−AUG−13
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Potassium	Selenium	Silicon
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.44373	0.00000	0.00000
Cadmium	226.502	−0.67433	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	0.00000	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	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	367.007	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	6.47169	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL
GEL Job No: 335304
Contract: MDNR00101
Instrument: OPTIMA4
Effective Dates: 01−AUG−13
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Silver	Sodium	Strontium	Sulfur	Thallium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
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	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.07617	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	367.007	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
−11−
Interelement Correction Factors

Lab Code: GEL
Contract: MDNR00101
Instrument: OPTIMA4
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 335304
Effective Dates: 01−AUG−13

Parmname	Wavelength	Tin	Titanium	Uranium	Vanadium	Zinc
Aluminum	**396.153**	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	**206.836**	−1.16303	−1.54172	0.00000	−1.05871	0.00000
Arsenic	**188.979**	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	**233.527**	0.00000	0.00000	0.00000	−2.77929	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	0.53218	−0.26992	0.00000
Cobalt	**228.616**	0.00000	2.23831	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	−0.70277	0.81400	0.00000	0.00000
Magnesium	**279.077**	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	**257.61**	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	**202.031**	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	**231.604**	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	**214.914**	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	**766.49**	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	**196.026**	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	**251.611**	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	**328.068**	0.00000	0.00000	1.00647	−3.11125	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**	2.36691	0.00000	0.00000	0.00000	0.00000
Thallium	**190.801**	0.00000	−7.92453	0.00000	3.33507	0.00000
Tin	**189.927**	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	**334.94**	0.00000	0.00000	0.53439	0.00000	0.00000
Uranium	**367.007**	0.00000	1.41099	0.00000	0.00000	0.00000
Vanadium	**292.402**	0.00000	0.68119	−0.52583	0.00000	0.00000
Zinc	**213.857**	0.00000	−0.63183	0.00000	0.00000	0.00872

METALS
−12−
Linear Ranges

SDG NO. 335304

Contract: MDNR00101 **Lab Code: GEL**

Instrument ID OPTIMA3

Analyte	Integration Time (sec)	LDR	Units	Effective Date
Aluminum	20	500000	ug/L	01−AUG−13
Antimony	20	10000	ug/L	01−AUG−13
Arsenic	20	10000	ug/L	01−AUG−13
Barium	20	15000	ug/L	01−AUG−13
Beryllium	20	3000	ug/L	01−AUG−13
Boron	20	5000	ug/L	01−AUG−13
Cadmium	20	10000	ug/L	01−AUG−13
Calcium	20	500000	ug/L	01−AUG−13
Chromium	20	25000	ug/L	01−AUG−13
Cobalt	20	10000	ug/L	01−AUG−13
Copper	20	20000	ug/L	01−AUG−13
Iron	20	500000	ug/L	01−AUG−13
Lead	20	25000	ug/L	01−AUG−13
Magnesium	20	500000	ug/L	01−AUG−13
Manganese	20	10000	ug/L	01−AUG−13
Molybdenum	20	10000	ug/L	01−AUG−13
Nickel	20	10000	ug/L	01−AUG−13
Phosphorous	20	15000	ug/L	01−AUG−13
Potassium	20	300000	ug/L	01−AUG−13
Silica	20	107000	ug/L	01−AUG−13
Silver	20	1000	ug/L	01−AUG−13
Sodium	20	500000	ug/L	01−AUG−13
Strontium	20	10000	ug/L	01−AUG−13
Thallium	20	10000	ug/L	01−AUG−13
Tin	20	10000	ug/L	01−AUG−13
Uranium	20	15000	ug/L	01−AUG−13
Vanadium	20	10000	ug/L	01−AUG−13
Zinc	20	15000	ug/L	01−AUG−13
Selenium	20	10000	ug/L	01−AUG−13

METALS
−12−
Linear Ranges

SDG NO. 335304

Contract: MDNR00101 **Lab Code: GEL**

Instrument ID OPTIMA4

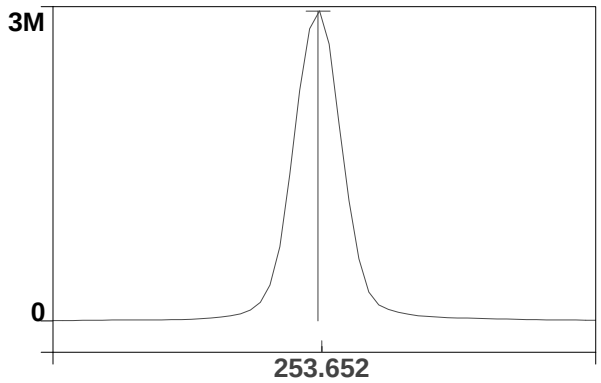
Analyte	Integration Time (sec)	LDR	Units	Effective Date
Aluminum	20	500000	ug/L	01−AUG−13
Antimony	20	10000	ug/L	01−AUG−13
Arsenic	20	10000	ug/L	01−AUG−13
Barium	20	15000	ug/L	01−AUG−13
Beryllium	20	3000	ug/L	01−AUG−13
Boron	20	5000	ug/L	01−AUG−13
Cadmium	20	10000	ug/L	01−AUG−13
Calcium	20	500000	ug/L	01−AUG−13
Chromium	20	25000	ug/L	01−AUG−13
Cobalt	20	10000	ug/L	01−AUG−13
Copper	20	20000	ug/L	01−AUG−13
Iron	20	500000	ug/L	01−AUG−13
Lead	20	25000	ug/L	01−AUG−13
Magnesium	20	500000	ug/L	01−AUG−13
Manganese	20	10000	ug/L	01−AUG−13
Molybdenum	20	10000	ug/L	01−AUG−13
Nickel	20	10000	ug/L	01−AUG−13
Phosphorous	20	15000	ug/L	01−AUG−13
Potassium	20	300000	ug/L	01−AUG−13
Selenium	20	10000	ug/L	01−AUG−13
Silica	20	107000	ug/L	01−AUG−13
Silver	20	1000	ug/L	01−AUG−13
Sodium	20	500000	ug/L	01−AUG−13
Strontium	20	10000	ug/L	01−AUG−13
Thallium	20	10000	ug/L	01−AUG−13
Tin	20	10000	ug/L	01−AUG−13
Uranium	20	15000	ug/L	01−AUG−13
Vanadium	20	10000	ug/L	01−AUG−13
Zinc	20	15000	ug/L	01−AUG−13

Raw Data

Method: Hg_ReAlign
Result: 110513A

Sample ID: Hg_ReAlign

Hg 253.652 **Rep: 1**



Intensity: 3251846.6 cps
Conc:

1

==========
11/5/2013 8:12:58 Hg ReAlign... Actual peak offset (nm): 0.002
Drift (nm): -0.000 Slit adjustment: -2
==========

==========
Analysis Begun

Start Time: 11/5/2013 8:13:35 **Plasma On Time: 11/5/2013 5:57:05**
Logged In Analyst: optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: AS-93plus

Sample Information File: C:\pe\Optima3\Sample Information\110513.sif
Batch ID:
Results Data Set: 110513A
Results Library: C:\pe\optima3\Results\Results.mdb

==========
Method Loaded
Method Name: Gen Eng fast_new Si2 **Method Last Saved: 11/5/2013 8:10:19**
IEC File: 100913.iec **MSF File:**
Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	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	No
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	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 367.007	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

==========
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: S0 **Date Collected: 11/5/2013 8:13:37**
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	6449.8	6449.8	100	%	08:14:07
1	Al 396.153Radial†	-180.1	-179.6	[0.00]	µg/L	08:14:07
1	Ca 317.933Radial†	41.2	41.1	[0.00]	µg/L	08:14:27
1	Fe 238.204 Radial†	38.9	38.8	[0.00]	µg/L	08:14:27
1	K 766.490 Radial†	715.0	713.3	[0.00]	µg/L	08:14:07
1	Mg 279.077 IEC†	7.3	7.3	[0.00]	µg/L	08:14:27
1	Na 589.592 Radial†	-165.1	-164.7	[0.00]	µg/L	08:14:07
1	Sr 421.552†	-874.4	-872.2	[0.00]	µg/L	08:14:07
1	Sc 361.383	566139.5	566139.5	99.871	%	08:15:24
1	Y 371.029	520513.4	520513.4	99.948	%	08:15:24
1	Ag 328.068†	-248.9	-249.2	[0.00]	µg/L	08:15:24
1	As 188.979†	-11.5	-11.5	[0.00]	µg/L	08:15:44
1	B 249.677†	207.5	207.7	[0.00]	µg/L	08:15:24
1	Ba 233.527†	-53.5	-53.6	[0.00]	µg/L	08:15:44
1	Be 313.107†	-5519.2	-5526.3	[0.00]	µg/L	08:15:24
1	Cd 226.502†	-159.3	-159.5	[0.00]	µg/L	08:15:44
1	Co 228.616†	-126.8	-127.0	[0.00]	µg/L	08:15:44
1	Cr 267.716†	92.1	92.2	[0.00]	µg/L	08:15:24
1	Cu 324.752†	2434.1	2437.3	[0.00]	µg/L	08:15:24
1	Mn 257.610†	391.4	391.9	[0.00]	µg/L	08:15:24
1	Mo 202.031†	11.8	11.8	[0.00]	µg/L	08:15:44
1	Ni 231.604†	-111.7	-111.8	[0.00]	µg/L	08:15:44
1	P 214.914†	45.0	45.0	[0.00]	µg/L	08:15:44
1	Pb 220.353†	162.8	163.1	[0.00]	µg/L	08:15:44
1	S 181.975 Axial†	54.9	55.0	[0.00]	µg/L	08:15:44
1	Sb 206.836†	76.3	76.4	[0.00]	µg/L	08:15:44
1	Se 196.026†	-47.4	-47.5	[0.00]	µg/L	08:15:44
1	SiO2†	1161.5	1163.0	[0.00]	µg/L	08:15:24
1	Si 251.611†	282.1	282.5	[0.00]	µg/L	08:15:44
1	Sn 189.927†	22.6	22.7	[0.00]	µg/L	08:15:44
1	Ti 334.940†	-463.7	-464.3	[0.00]	µg/L	08:15:24
1	Tl 190.801†	-24.8	-24.9	[0.00]	µg/L	08:15:44
1	U 367.007†	519.7	520.4	[0.00]	µg/L	08:15:24
1	V 292.402†	60.1	60.2	[0.00]	µg/L	08:15:24
1	Zn 213.857†	719.0	720.0	[0.00]	µg/L	08:15:44
2	Sc RADIAL	6448.4	6448.4	100	%	08:14:32
2	Al 396.153Radial†	-181.2	-180.8	[0.00]	µg/L	08:14:32
2	Ca 317.933Radial†	51.6	51.5	[0.00]	µg/L	08:14:52
2	Fe 238.204 Radial†	40.3	40.2	[0.00]	µg/L	08:14:52
2	K 766.490 Radial†	558.3	557.1	[0.00]	µg/L	08:14:32
2	Mg 279.077 IEC†	5.2	5.2	[0.00]	µg/L	08:14:52
2	Na 589.592 Radial†	-180.1	-179.7	[0.00]	µg/L	08:14:32
2	Sr 421.552†	-908.6	-906.6	[0.00]	µg/L	08:14:32
2	Sc 361.383	566946.2	566946.2	100.01	%	08:15:49
2	Y 371.029	520307.8	520307.8	99.908	%	08:15:49
2	Ag 328.068†	-247.8	-247.7	[0.00]	µg/L	08:15:49
2	As 188.979†	-13.7	-13.7	[0.00]	µg/L	08:16:09
2	B 249.677†	214.7	214.7	[0.00]	µg/L	08:15:49
2	Ba 233.527†	-50.8	-50.8	[0.00]	µg/L	08:16:09
2	Be 313.107†	-5506.2	-5505.5	[0.00]	µg/L	08:15:49
2	Cd 226.502†	-151.6	-151.5	[0.00]	µg/L	08:16:09
2	Co 228.616†	-108.1	-108.1	[0.00]	µg/L	08:16:09
2	Cr 267.716†	76.3	76.3	[0.00]	µg/L	08:15:49
2	Cu 324.752†	2308.3	2308.0	[0.00]	µg/L	08:15:49
2	Mn 257.610†	395.3	395.3	[0.00]	µg/L	08:15:49
2	Mo 202.031†	9.2	9.2	[0.00]	µg/L	08:16:09
2	Ni 231.604†	-116.2	-116.2	[0.00]	µg/L	08:16:09
2	P 214.914†	61.5	61.5	[0.00]	µg/L	08:16:09
2	Pb 220.353†	165.4	165.4	[0.00]	µg/L	08:16:09
2	S 181.975 Axial†	50.8	50.8	[0.00]	µg/L	08:16:09
2	Sb 206.836†	55.2	55.2	[0.00]	µg/L	08:16:09
2	Se 196.026†	-46.5	-46.5	[0.00]	µg/L	08:16:09
2	SiO2†	1224.9	1224.7	[0.00]	µg/L	08:15:49
2	Si 251.611†	298.5	298.5	[0.00]	µg/L	08:16:09
2	Sn 189.927†	26.3	26.3	[0.00]	µg/L	08:16:09
2	Ti 334.940†	-495.4	-495.3	[0.00]	µg/L	08:15:49
2	Tl 190.801†	-27.3	-27.3	[0.00]	µg/L	08:16:09
2	U 367.007†	499.8	499.7	[0.00]	µg/L	08:15:49
2	V 292.402†	59.2	59.1	[0.00]	µg/L	08:15:49
2	Zn 213.857†	696.9	696.8	[0.00]	µg/L	08:16:09
3	Sc RADIAL	6404.3	6404.3	99.5	%	08:14:57

3	Al 396.153Radial†	-164.8	-165.6	[0.00]	µg/L	08:14:57
3	Ca 317.933Radial†	47.9	48.1	[0.00]	µg/L	08:15:17
3	Fe 238.204 Radial†	40.9	41.1	[0.00]	µg/L	08:15:17
3	K 766.490 Radial†	711.3	714.6	[0.00]	µg/L	08:14:57
3	Mg 279.077 IEC†	12.3	12.4	[0.00]	µg/L	08:15:17
3	Na 589.592 Radial†	-203.8	-204.8	[0.00]	µg/L	08:14:57
3	Sr 421.552†	-875.5	-879.6	[0.00]	µg/L	08:14:57
3	Sc 361.383	567520.7	567520.7	100.11	%	08:16:15
3	Y 371.029	521533.2	521533.2	100.14	%	08:16:15
3	Ag 328.068†	-243.9	-243.6	[0.00]	µg/L	08:16:15
3	As 188.979†	-11.9	-11.9	[0.00]	µg/L	08:16:35
3	B 249.677†	255.7	255.4	[0.00]	µg/L	08:16:15
3	Ba 233.527†	-58.1	-58.1	[0.00]	µg/L	08:16:35
3	Be 313.107†	-5499.4	-5493.1	[0.00]	µg/L	08:16:15
3	Cd 226.502†	-164.4	-164.2	[0.00]	µg/L	08:16:35
3	Co 228.616†	-111.2	-111.1	[0.00]	µg/L	08:16:35
3	Cr 267.716†	74.5	74.4	[0.00]	µg/L	08:16:15
3	Cu 324.752†	2321.8	2319.1	[0.00]	µg/L	08:16:15
3	Mn 257.610†	399.1	398.7	[0.00]	µg/L	08:16:15
3	Mo 202.031†	12.9	12.9	[0.00]	µg/L	08:16:35
3	Ni 231.604†	-112.0	-111.9	[0.00]	µg/L	08:16:35
3	P 214.914†	56.6	56.5	[0.00]	µg/L	08:16:35
3	Pb 220.353†	184.1	183.9	[0.00]	µg/L	08:16:35
3	S 181.975 Axial†	51.0	51.0	[0.00]	µg/L	08:16:35
3	Sb 206.836†	59.6	59.5	[0.00]	µg/L	08:16:35
3	Se 196.026†	-57.0	-57.0	[0.00]	µg/L	08:16:35
3	SiO2†	1181.9	1180.6	[0.00]	µg/L	08:16:15
3	Si 251.611†	310.2	309.8	[0.00]	µg/L	08:16:35
3	Sn 189.927†	20.3	20.3	[0.00]	µg/L	08:16:35
3	Ti 334.940†	-498.8	-498.2	[0.00]	µg/L	08:16:15
3	Tl 190.801†	-26.4	-26.4	[0.00]	µg/L	08:16:35
3	U 367.007†	593.6	592.9	[0.00]	µg/L	08:16:15
3	V 292.402†	108.5	108.3	[0.00]	µg/L	08:16:15
3	Zn 213.857†	717.7	716.9	[0.00]	µg/L	08:16:35

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	566868.8	693.83	0.12%	100.00	%
Sc RADIAL	6434.2	25.85	0.40%	100	%
Y 371.029	520784.8	656.25	0.13%	100.00	%
Ag 328.068†	-246.9	2.90	1.18%	[0.00]	µg/L
Al 396.153Radial†	-175.3	8.46	4.83%	[0.00]	µg/L
As 188.979†	-12.4	1.19	9.61%	[0.00]	µg/L
B 249.677†	226.0	25.74	11.39%	[0.00]	µg/L
Ba 233.527†	-54.2	3.66	6.75%	[0.00]	µg/L
Be 313.107†	-5508.3	16.82	0.31%	[0.00]	µg/L
Ca 317.933Radial†	46.9	5.29	11.28%	[0.00]	µg/L
Cd 226.502†	-158.4	6.41	4.04%	[0.00]	µg/L
Co 228.616†	-115.4	10.17	8.81%	[0.00]	µg/L
Cr 267.716†	81.0	9.78	12.07%	[0.00]	µg/L
Cu 324.752†	2354.8	71.62	3.04%	[0.00]	µg/L
Fe 238.204 Radial†	40.0	1.15	2.87%	[0.00]	µg/L
K 766.490 Radial†	661.6	90.55	13.69%	[0.00]	µg/L
Mg 279.077 IEC†	8.3	3.69	44.38%	[0.00]	µg/L
Mn 257.610†	395.3	3.38	0.86%	[0.00]	µg/L
Mo 202.031†	11.3	1.88	16.62%	[0.00]	µg/L
Na 589.592 Radial†	-183.0	20.24	11.06%	[0.00]	µg/L
Ni 231.604†	-113.3	2.50	2.20%	[0.00]	µg/L
P 214.914†	54.4	8.46	15.57%	[0.00]	µg/L
Pb 220.353†	170.8	11.42	6.69%	[0.00]	µg/L
S 181.975 Axial†	52.3	2.37	4.53%	[0.00]	µg/L
Sb 206.836†	63.7	11.21	17.59%	[0.00]	µg/L
Se 196.026†	-50.3	5.79	11.51%	[0.00]	µg/L
SiO2†	1189.4	31.83	2.68%	[0.00]	µg/L
Si 251.611†	296.9	13.73	4.62%	[0.00]	µg/L
Sn 189.927†	23.1	3.02	13.10%	[0.00]	µg/L
Sr 421.552†	-886.1	18.06	2.04%	[0.00]	µg/L
Ti 334.940†	-486.0	18.81	3.87%	[0.00]	µg/L
Tl 190.801†	-26.2	1.23	4.70%	[0.00]	µg/L

U 367.007†	537.7	48.95	9.10%	[0.00] µg/L
V 292.402†	75.9	28.10	37.03%	[0.00] µg/L
Zn 213.857†	711.2	12.59	1.77%	[0.00] µg/L

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Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S0.1 **Date Collected: 11/5/2013 8:16:42**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	6447.4	6447.4	100	%	08:17:12
1	K 766.490 Radial†	1754.4	1089.2	[1000]	µg/L	08:17:12
1	Sr 421.552†	6046.7	6920.4	[100]	µg/L	08:17:12
1	Sc 361.383	577790.3	577790.3	101.93	%	08:17:29
1	Y 371.029	521933.8	521933.8	100.22	%	08:17:29
1	Ag 328.068†	14804.0	14771.1	[100]	µg/L	08:17:29
1	As 188.979†	112.3	122.6	[100]	µg/L	08:17:49
1	B 249.677†	3178.0	2892.0	[100]	µg/L	08:17:29
1	Ba 233.527†	9855.1	9722.9	[100]	µg/L	08:17:29
1	Be 313.107†	185804.0	187800.2	[100]	µg/L	08:17:29
1	Cd 226.502†	6226.8	6267.5	[100]	µg/L	08:17:29
1	Co 228.616†	3310.9	3363.7	[100]	µg/L	08:17:49
1	Cr 267.716†	4931.0	4756.8	[100]	µg/L	08:17:29
1	Cu 324.752†	22010.2	19239.4	[100]	µg/L	08:17:29
1	Mn 257.610†	65136.6	63510.1	[100]	µg/L	08:17:29
1	Mo 202.031†	879.9	852.0	[100]	µg/L	08:17:49
1	Ni 231.604†	2593.6	2657.9	[100]	µg/L	08:17:49
1	P 214.914†	575.5	510.3	[500]	µg/L	08:17:49
1	Pb 220.353†	685.2	501.4	[100]	µg/L	08:17:49
1	S 181.975 Axial†	134.3	79.5	[200]	µg/L	08:17:49
1	Sb 206.836†	262.8	194.1	[100]	µg/L	08:17:49
1	Se 196.026†	1.7	52.0	[100]	µg/L	08:17:49
1	SiO2†	9781.4	8407.1	[1069.5]	µg/L	08:17:29
1	Si 251.611†	9205.3	8734.4	[500]	µg/L	08:17:29
1	Sn 189.927†	352.9	323.1	[100]	µg/L	08:17:49
1	Ti 334.940†	37377.9	37157.3	[100]	µg/L	08:17:29
1	Tl 190.801†	176.3	199.1	[100]	µg/L	08:17:49
1	U 367.007†	843.7	290.1	[100]	µg/L	08:17:29
1	V 292.402†	10028.1	9762.7	[100]	µg/L	08:17:29
1	Zn 213.857†	8406.5	7536.4	[100]	µg/L	08:17:29
2	Sc RADIAL	6437.6	6437.6	100	%	08:17:17
2	K 766.490 Radial†	1797.7	1135.1	[1000]	µg/L	08:17:17
2	Sr 421.552†	6068.6	6951.6	[100]	µg/L	08:17:17
2	Sc 361.383	572381.6	572381.6	100.97	%	08:17:54
2	Y 371.029	517680.7	517680.7	99.404	%	08:17:54
2	Ag 328.068†	14931.5	15034.5	[100]	µg/L	08:17:54
2	As 188.979†	101.8	113.2	[100]	µg/L	08:18:14
2	B 249.677†	3235.8	2978.6	[100]	µg/L	08:17:54
2	Ba 233.527†	9895.0	9853.9	[100]	µg/L	08:17:54
2	Be 313.107†	186249.7	189964.2	[100]	µg/L	08:17:54
2	Cd 226.502†	6257.9	6356.1	[100]	µg/L	08:17:54
2	Co 228.616†	3284.6	3368.4	[100]	µg/L	08:18:14
2	Cr 267.716†	4920.1	4791.7	[100]	µg/L	08:17:54
2	Cu 324.752†	21996.6	19430.0	[100]	µg/L	08:17:54
2	Mn 257.610†	65241.8	64218.1	[100]	µg/L	08:17:54
2	Mo 202.031†	875.5	855.8	[100]	µg/L	08:18:14
2	Ni 231.604†	2558.1	2646.7	[100]	µg/L	08:18:14
2	P 214.914†	591.1	531.1	[500]	µg/L	08:18:14
2	Pb 220.353†	685.4	508.0	[100]	µg/L	08:18:14
2	S 181.975 Axial†	134.2	80.7	[200]	µg/L	08:18:14
2	Sb 206.836†	259.9	193.6	[100]	µg/L	08:18:14
2	Se 196.026†	8.1	58.3	[100]	µg/L	08:18:14
2	SiO2†	9825.3	8541.2	[1069.5]	µg/L	08:17:54
2	Si 251.611†	9227.6	8841.8	[500]	µg/L	08:17:54
2	Sn 189.927†	362.3	335.7	[100]	µg/L	08:18:14
2	Ti 334.940†	37419.3	37544.9	[100]	µg/L	08:17:54
2	Tl 190.801†	181.6	206.0	[100]	µg/L	08:18:14
2	U 367.007†	850.4	304.5	[100]	µg/L	08:17:54
2	V 292.402†	10114.2	9940.9	[100]	µg/L	08:17:54

2	Zn 213.857†	8424.4	7632.1	[100]	µg/L	08:17:54
3	Sc RADIAL	6417.7	6417.7	99.7	%	08:17:22
3	K 766.490 Radial†	1830.0	1173.1	[1000]	µg/L	08:17:22
3	Sr 421.552†	6050.7	6952.3	[100]	µg/L	08:17:22
3	Sc 361.383	575863.7	575863.7	101.59	%	08:18:20
3	Y 371.029	521664.8	521664.8	100.17	%	08:18:20
3	Ag 328.068†	14922.3	14936.1	[100]	µg/L	08:18:20
3	As 188.979†	106.3	117.0	[100]	µg/L	08:18:40
3	B 249.677†	3229.3	2953.0	[100]	µg/L	08:18:20
3	Ba 233.527†	9852.0	9752.2	[100]	µg/L	08:18:20
3	Be 313.107†	186741.2	189332.6	[100]	µg/L	08:18:20
3	Cd 226.502†	6309.5	6369.4	[100]	µg/L	08:18:20
3	Co 228.616†	3304.3	3368.1	[100]	µg/L	08:18:40
3	Cr 267.716†	4993.1	4834.1	[100]	µg/L	08:18:20
3	Cu 324.752†	22041.7	19342.6	[100]	µg/L	08:18:20
3	Mn 257.610†	65409.9	63992.9	[100]	µg/L	08:18:20
3	Mo 202.031†	882.0	857.0	[100]	µg/L	08:18:40
3	Ni 231.604†	2592.4	2665.2	[100]	µg/L	08:18:40
3	P 214.914†	599.6	535.9	[500]	µg/L	08:18:40
3	Pb 220.353†	692.7	511.0	[100]	µg/L	08:18:40
3	S 181.975 Axial†	130.0	75.7	[200]	µg/L	08:18:40
3	Sb 206.836†	264.0	196.2	[100]	µg/L	08:18:40
3	Se 196.026†	7.7	57.9	[100]	µg/L	08:18:40
3	SiO2†	9848.0	8504.8	[1069.5]	µg/L	08:18:20
3	Si 251.611†	9227.0	8786.0	[500]	µg/L	08:18:20
3	Sn 189.927†	365.3	336.5	[100]	µg/L	08:18:40
3	Ti 334.940†	37548.8	37448.2	[100]	µg/L	08:18:20
3	Tl 190.801†	178.8	202.2	[100]	µg/L	08:18:40
3	U 367.007†	879.2	327.8	[100]	µg/L	08:18:20
3	V 292.402†	10153.1	9918.6	[100]	µg/L	08:18:20
3	Zn 213.857†	8391.0	7548.7	[100]	µg/L	08:18:20

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	575345.2	2741.38	0.48%	101.50	%
Sc RADIAL	6434.2	15.13	0.24%	100	%
Y 371.029	520426.4	2381.67	0.46%	99.931	%
Ag 328.068†	14913.9	133.11	0.89%	[100]	µg/L
As 188.979†	117.6	4.74	4.03%	[100]	µg/L
B 249.677†	2941.2	44.52	1.51%	[100]	µg/L
Ba 233.527†	9776.3	68.71	0.70%	[100]	µg/L
Be 313.107†	189032.3	1112.83	0.59%	[100]	µg/L
Cd 226.502†	6331.0	55.35	0.87%	[100]	µg/L
Co 228.616†	3366.7	2.63	0.08%	[100]	µg/L
Cr 267.716†	4794.2	38.73	0.81%	[100]	µg/L
Cu 324.752†	19337.3	95.40	0.49%	[100]	µg/L
K 766.490 Radial†	1132.4	42.01	3.71%	[1000]	µg/L
Mn 257.610†	63907.0	361.75	0.57%	[100]	µg/L
Mo 202.031†	854.9	2.60	0.30%	[100]	µg/L
Ni 231.604†	2656.6	9.31	0.35%	[100]	µg/L
P 214.914†	525.8	13.61	2.59%	[500]	µg/L
Pb 220.353†	506.8	4.91	0.97%	[100]	µg/L
S 181.975 Axial†	78.6	2.61	3.32%	[200]	µg/L
Sb 206.836†	194.6	1.36	0.70%	[100]	µg/L
Se 196.026†	56.1	3.51	6.27%	[100]	µg/L
SiO2†	8484.4	69.37	0.82%	[1069.5]	µg/L
Si 251.611†	8787.4	53.71	0.61%	[500]	µg/L
Sn 189.927†	331.8	7.51	2.26%	[100]	µg/L
Sr 421.552†	6941.4	18.20	0.26%	[100]	µg/L
Ti 334.940†	37383.5	201.72	0.54%	[100]	µg/L
Tl 190.801†	202.5	3.46	1.71%	[100]	µg/L
U 367.007†	307.4	19.03	6.19%	[100]	µg/L
V 292.402†	9874.0	97.10	0.98%	[100]	µg/L
Zn 213.857†	7572.4	52.07	0.69%	[100]	µg/L

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Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S0.5 **Date Collected: 11/5/2013 8:18:47**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	6535.6	6535.6	102	%	08:19:35
1	Al 396.153Radial†	4655.3	4758.4	[5000]	µg/L	08:19:15
1	Ca 317.933Radial†	5335.0	5205.3	[5000]	µg/L	08:19:35
1	K 766.490 Radial†	6440.3	5678.7	[5000]	µg/L	08:19:15
1	Mg 279.077 IEC†	676.4	657.6	[5000]	µg/L	08:19:35
1	Sr 421.552†	33416.8	33784.5	[500]	µg/L	08:19:15
1	Sc 361.383	587259.4	587259.4	103.60	%	08:20:32
1	Y 371.029	523890.2	523890.2	100.60	%	08:20:32
1	Ag 328.068†	74168.5	71840.1	[500]	µg/L	08:20:37
1	As 188.979†	602.0	593.5	[500]	µg/L	08:20:57
1	B 249.677†	15184.2	14431.0	[500]	µg/L	08:20:37
1	Ba 233.527†	47585.0	45986.9	[500]	µg/L	08:20:37
1	Be 313.107†	943200.6	915959.4	[500]	µg/L	08:20:32
1	Cd 226.502†	31172.4	30248.5	[500]	µg/L	08:20:37
1	Co 228.616†	16824.1	16355.3	[500]	µg/L	08:20:37
1	Cr 267.716†	23755.1	22849.3	[500]	µg/L	08:20:37
1	Cu 324.752†	98832.4	93045.9	[500]	µg/L	08:20:37
1	Mn 257.610†	304579.6	293608.8	[500]	µg/L	08:20:37
1	Mo 202.031†	4314.3	4153.2	[500]	µg/L	08:20:57
1	Ni 231.604†	13473.1	13118.6	[500]	µg/L	08:20:37
1	P 214.914†	2733.0	2583.8	[2500]	µg/L	08:20:57
1	Pb 220.353†	2743.2	2477.2	[500]	µg/L	08:20:57
1	S 181.975 Axial†	422.0	355.1	[1000]	µg/L	08:20:57
1	Sb 206.836†	1031.5	931.9	[500]	µg/L	08:20:57
1	Se 196.026†	204.7	247.9	[500]	µg/L	08:20:57
1	SiO2†	43366.0	40670.9	[5347.5]	µg/L	08:20:37
1	Si 251.611†	44463.1	42622.4	[2500]	µg/L	08:20:37
1	Sn 189.927†	1687.3	1605.6	[500]	µg/L	08:20:57
1	Ti 334.940†	186819.3	180818.6	[500]	µg/L	08:20:37
1	Tl 190.801†	992.0	983.8	[500]	µg/L	08:20:57
1	U 367.007†	2092.9	1482.5	[500]	µg/L	08:20:37
1	V 292.402†	49731.1	47928.5	[500]	µg/L	08:20:37
1	Zn 213.857†	37992.0	35961.6	[500]	µg/L	08:20:37
2	Sc RADIAL	6535.6	6535.6	102	%	08:20:00
2	Al 396.153Radial†	4653.5	4756.6	[5000]	µg/L	08:19:40
2	Ca 317.933Radial†	5307.2	5178.0	[5000]	µg/L	08:20:00
2	K 766.490 Radial†	6431.6	5670.2	[5000]	µg/L	08:19:40
2	Mg 279.077 IEC†	679.0	660.2	[5000]	µg/L	08:20:00
2	Sr 421.552†	33239.6	33610.0	[500]	µg/L	08:19:40
2	Sc 361.383	583938.9	583938.9	103.01	%	08:21:03
2	Y 371.029	521323.2	521323.2	100.10	%	08:21:03
2	Ag 328.068†	74875.0	72933.1	[500]	µg/L	08:21:08
2	As 188.979†	593.8	588.8	[500]	µg/L	08:21:28
2	B 249.677†	15294.6	14621.6	[500]	µg/L	08:21:08
2	Ba 233.527†	48059.6	46708.9	[500]	µg/L	08:21:08
2	Be 313.107†	941725.2	919704.3	[500]	µg/L	08:21:03
2	Cd 226.502†	31509.6	30746.9	[500]	µg/L	08:21:08
2	Co 228.616†	17066.3	16682.8	[500]	µg/L	08:21:08
2	Cr 267.716†	23997.5	23215.0	[500]	µg/L	08:21:08
2	Cu 324.752†	100195.0	94911.2	[500]	µg/L	08:21:08
2	Mn 257.610†	308023.4	298623.8	[500]	µg/L	08:21:08
2	Mo 202.031†	4308.8	4171.5	[500]	µg/L	08:21:28
2	Ni 231.604†	13616.1	13331.3	[500]	µg/L	08:21:08
2	P 214.914†	2733.0	2598.7	[2500]	µg/L	08:21:28
2	Pb 220.353†	2744.5	2493.5	[500]	µg/L	08:21:28
2	S 181.975 Axial†	413.9	349.5	[1000]	µg/L	08:21:28
2	Sb 206.836†	1022.9	929.2	[500]	µg/L	08:21:28
2	Se 196.026†	199.6	244.0	[500]	µg/L	08:21:28
2	SiO2†	43899.4	41426.6	[5347.5]	µg/L	08:21:08

2	Si 251.611†	45044.5	43430.8	[2500]	µg/L	08:21:08
2	Sn 189.927†	1665.4	1593.6	[500]	µg/L	08:21:28
2	Ti 334.940†	188675.1	183645.6	[500]	µg/L	08:21:08
2	Tl 190.801†	978.3	975.9	[500]	µg/L	08:21:28
2	U 367.007†	2114.1	1514.6	[500]	µg/L	08:21:08
2	V 292.402†	50195.5	48652.2	[500]	µg/L	08:21:08
2	Zn 213.857†	38445.6	36610.5	[500]	µg/L	08:21:08
3	Sc RADIAL	6506.9	6506.9	101	%	08:20:25
3	Al 396.153Radial†	4682.0	4805.0	[5000]	µg/L	08:20:05
3	Ca 317.933Radial†	5334.6	5228.1	[5000]	µg/L	08:20:25
3	K 766.490 Radial†	6466.9	5733.0	[5000]	µg/L	08:20:05
3	Mg 279.077 IEC†	671.3	655.4	[5000]	µg/L	08:20:25
3	Sr 421.552†	33442.7	33955.1	[500]	µg/L	08:20:05
3	Sc 361.383	583268.3	583268.3	102.89	%	08:21:34
3	Y 371.029	521696.8	521696.8	100.18	%	08:21:34
3	Ag 328.068†	74351.0	72507.4	[500]	µg/L	08:21:39
3	As 188.979†	590.0	585.8	[500]	µg/L	08:21:59
3	B 249.677†	15128.3	14477.0	[500]	µg/L	08:21:39
3	Ba 233.527†	47604.5	46320.2	[500]	µg/L	08:21:39
3	Be 313.107†	937203.9	916361.1	[500]	µg/L	08:21:34
3	Cd 226.502†	31142.7	30425.5	[500]	µg/L	08:21:39
3	Co 228.616†	16905.8	16545.9	[500]	µg/L	08:21:39
3	Cr 267.716†	23634.2	22888.7	[500]	µg/L	08:21:39
3	Cu 324.752†	98838.5	93704.7	[500]	µg/L	08:21:39
3	Mn 257.610†	304830.4	295864.3	[500]	µg/L	08:21:39
3	Mo 202.031†	4345.5	4212.0	[500]	µg/L	08:21:59
3	Ni 231.604†	13485.6	13219.7	[500]	µg/L	08:21:39
3	P 214.914†	2756.3	2624.4	[2500]	µg/L	08:21:59
3	Pb 220.353†	2751.7	2503.5	[500]	µg/L	08:21:59
3	S 181.975 Axial†	431.1	366.7	[1000]	µg/L	08:21:59
3	Sb 206.836†	1025.8	933.2	[500]	µg/L	08:21:59
3	Se 196.026†	212.1	256.4	[500]	µg/L	08:21:59
3	SiO2†	43394.4	40984.9	[5347.5]	µg/L	08:21:39
3	Si 251.611†	44592.2	43041.5	[2500]	µg/L	08:21:39
3	Sn 189.927†	1681.1	1610.8	[500]	µg/L	08:21:59
3	Ti 334.940†	186851.5	182083.8	[500]	µg/L	08:21:39
3	Tl 190.801†	999.4	997.5	[500]	µg/L	08:21:59
3	U 367.007†	2091.4	1495.0	[500]	µg/L	08:21:39
3	V 292.402†	49734.6	48260.4	[500]	µg/L	08:21:39
3	Zn 213.857†	37992.1	36212.6	[500]	µg/L	08:21:39

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	584822.2	2137.14	0.37%	103.17	%
Sc RADIAL	6526.0	16.56	0.25%	101	%
Y 371.029	522303.4	1386.81	0.27%	100.29	%
Ag 328.068†	72426.9	550.93	0.76%	[500]	µg/L
Al 396.153Radial†	4773.3	27.43	0.57%	[5000]	µg/L
As 188.979†	589.4	3.88	0.66%	[500]	µg/L
B 249.677†	14509.9	99.45	0.69%	[500]	µg/L
Ba 233.527†	46338.7	361.33	0.78%	[500]	µg/L
Be 313.107†	917341.6	2056.00	0.22%	[500]	µg/L
Ca 317.933Radial†	5203.8	25.08	0.48%	[5000]	µg/L
Cd 226.502†	30473.6	252.65	0.83%	[500]	µg/L
Co 228.616†	16528.0	164.45	0.99%	[500]	µg/L
Cr 267.716†	22984.3	200.73	0.87%	[500]	µg/L
Cu 324.752†	93887.3	945.95	1.01%	[500]	µg/L
K 766.490 Radial†	5694.0	34.05	0.60%	[5000]	µg/L
Mg 279.077 IEC†	657.7	2.36	0.36%	[5000]	µg/L
Mn 257.610†	296032.3	2511.73	0.85%	[500]	µg/L
Mo 202.031†	4178.9	30.09	0.72%	[500]	µg/L
Ni 231.604†	13223.2	106.43	0.80%	[500]	µg/L
P 214.914†	2602.3	20.55	0.79%	[2500]	µg/L
Pb 220.353†	2491.4	13.31	0.53%	[500]	µg/L
S 181.975 Axial†	357.1	8.74	2.45%	[1000]	µg/L
Sb 206.836†	931.5	2.05	0.22%	[500]	µg/L
Se 196.026†	249.5	6.34	2.54%	[500]	µg/L
SiO2†	41027.5	379.68	0.93%	[5347.5]	µg/L
Si 251.611†	43031.6	404.33	0.94%	[2500]	µg/L

Sn 189.927†	1603.3	8.79	0.55%	[500] µg/L
Sr 421.552†	33783.2	172.55	0.51%	[500] µg/L
Ti 334.940†	182182.6	1416.10	0.78%	[500] µg/L
Tl 190.801†	985.7	10.90	1.11%	[500] µg/L
U 367.007†	1497.4	16.17	1.08%	[500] µg/L
V 292.402†	48280.4	362.28	0.75%	[500] µg/L
Zn 213.857†	36261.6	327.23	0.90%	[500] µg/L

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Sequence No.: 4 **Autosampler Location: 4**
Sample ID: SCAL **Date Collected: 11/5/2013 8:22:07**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	6500.0	6500.0	101	%	08:22:55
1	Al 396.153Radial†	9864.0	9939.5	[10000]	µg/L	08:22:55
1	Ca 317.933Radial†	10710.2	10554.9	[10000]	µg/L	08:22:55
1	Fe 238.204 Radial†	9717.1	9578.7	[10000]	µg/L	08:22:55
1	K 766.490 Radial†	12375.0	11588.1	[10000]	µg/L	08:22:35
1	Mg 279.077 IEC†	1357.0	1334.9	[10000]	µg/L	08:22:55
1	Na 589.592 Radial†	1623.9	1790.6	[10000]	µg/L	08:22:55
1	Sr 421.552†	68200.0	68396.0	[1000]	µg/L	08:22:35
1	Sc 361.383	585877.5	585877.5	103.35	%	08:23:53
1	Y 371.029	521292.2	521292.2	100.10	%	08:23:53
1	Ag 328.068†	150344.9	145713.8	[1000]	µg/L	08:23:58
1	As 188.979†	1243.9	1216.0	[1000]	µg/L	08:24:18
1	B 249.677†	31251.6	30011.7	[1000]	µg/L	08:23:58
1	Ba 233.527†	97859.4	94738.5	[1000]	µg/L	08:23:58
1	Be 313.107†	1938371.0	1880989.0	[1000]	µg/L	08:23:53
1	Cd 226.502†	64080.9	62160.3	[1000]	µg/L	08:23:58
1	Co 228.616†	34585.4	33578.7	[1000]	µg/L	08:23:58
1	Cr 267.716†	48446.0	46793.2	[1000]	µg/L	08:23:58
1	Cu 324.752†	199284.2	190463.6	[1000]	µg/L	08:23:58
1	Mn 257.610†	631998.7	611098.3	[1000]	µg/L	08:23:53
1	Mo 202.031†	8758.7	8463.2	[1000]	µg/L	08:24:18
1	Ni 231.604†	27518.3	26738.7	[1000]	µg/L	08:23:58
1	P 214.914†	5545.1	5310.9	[5000]	µg/L	08:24:18
1	Pb 220.353†	5424.6	5077.8	[1000]	µg/L	08:24:18
1	S 181.975 Axial†	809.9	731.4	[2000]	µg/L	08:24:18
1	Sb 206.836†	2028.5	1899.0	[1000]	µg/L	08:24:18
1	Se 196.026†	495.9	530.2	[1000]	µg/L	08:24:18
1	SiO2†	87773.9	83736.7	[10695]	µg/L	08:23:58
1	Si 251.611†	91067.7	87816.2	[5000]	µg/L	08:23:58
1	Sn 189.927†	3405.0	3271.4	[1000]	µg/L	08:24:18
1	Ti 334.940†	377621.2	365855.3	[1000]	µg/L	08:23:58
1	Tl 190.801†	2046.0	2005.8	[1000]	µg/L	08:24:18
1	U 367.007†	3726.9	3068.3	[1000]	µg/L	08:23:58
1	V 292.402†	102834.3	99421.9	[1000]	µg/L	08:23:58
1	Zn 213.857†	77197.4	73981.5	[1000]	µg/L	08:23:58
2	Sc RADIAL	6556.1	6556.1	102	%	08:23:20
2	Al 396.153Radial†	9879.2	9870.8	[10000]	µg/L	08:23:20
2	Ca 317.933Radial†	10674.0	10428.6	[10000]	µg/L	08:23:20
2	Fe 238.204 Radial†	9665.7	9445.9	[10000]	µg/L	08:23:20
2	K 766.490 Radial†	12327.3	11436.5	[10000]	µg/L	08:23:00
2	Mg 279.077 IEC†	1349.6	1316.2	[10000]	µg/L	08:23:20
2	Na 589.592 Radial†	1563.3	1717.3	[10000]	µg/L	08:23:20
2	Sr 421.552†	68332.9	67948.7	[1000]	µg/L	08:23:00
2	Sc 361.383	583764.9	583764.9	102.98	%	08:24:25
2	Y 371.029	519459.7	519459.7	99.746	%	08:24:25
2	Ag 328.068†	150306.8	146203.2	[1000]	µg/L	08:24:30
2	As 188.979†	1224.3	1201.3	[1000]	µg/L	08:24:50
2	B 249.677†	31059.9	29935.0	[1000]	µg/L	08:24:30
2	Ba 233.527†	97493.4	94725.7	[1000]	µg/L	08:24:30
2	Be 313.107†	1940392.7	1889739.7	[1000]	µg/L	08:24:25
2	Cd 226.502†	63864.6	62174.6	[1000]	µg/L	08:24:30
2	Co 228.616†	34535.8	33651.6	[1000]	µg/L	08:24:30
2	Cr 267.716†	48246.0	46768.6	[1000]	µg/L	08:24:30
2	Cu 324.752†	198951.6	190838.5	[1000]	µg/L	08:24:30
2	Mn 257.610†	631980.8	613294.0	[1000]	µg/L	08:24:25
2	Mo 202.031†	8760.2	8495.4	[1000]	µg/L	08:24:50
2	Ni 231.604†	27450.2	26769.0	[1000]	µg/L	08:24:30
2	P 214.914†	5541.2	5326.5	[5000]	µg/L	08:24:50
2	Pb 220.353†	5439.4	5111.1	[1000]	µg/L	08:24:50

2	S 181.975 Axial†	808.2	732.5	[2000]	µg/L	08:24:50
2	Sb 206.836†	2027.8	1905.4	[1000]	µg/L	08:24:50
2	Se 196.026†	499.4	535.2	[1000]	µg/L	08:24:50
2	SiO2†	87444.6	83724.2	[10695]	µg/L	08:24:30
2	Si 251.611†	90696.7	87774.8	[5000]	µg/L	08:24:30
2	Sn 189.927†	3408.7	3286.9	[1000]	µg/L	08:24:50
2	Ti 334.940†	376909.0	366486.0	[1000]	µg/L	08:24:30
2	Tl 190.801†	2040.0	2007.1	[1000]	µg/L	08:24:50
2	U 367.007†	3553.1	2912.6	[1000]	µg/L	08:24:30
2	V 292.402†	102508.8	99466.0	[1000]	µg/L	08:24:30
2	Zn 213.857†	76946.6	74008.3	[1000]	µg/L	08:24:30
3	Sc RADIAL	6519.3	6519.3	101	%	08:23:45
3	Al 396.153Radial†	9903.4	9949.4	[10000]	µg/L	08:23:45
3	Ca 317.933Radial†	10733.2	10546.1	[10000]	µg/L	08:23:45
3	Fe 238.204 Radial†	9735.6	9568.5	[10000]	µg/L	08:23:45
3	K 766.490 Radial†	12403.2	11579.6	[10000]	µg/L	08:23:25
3	Mg 279.077 IEC†	1355.2	1329.2	[10000]	µg/L	08:23:45
3	Na 589.592 Radial†	1538.1	1701.1	[10000]	µg/L	08:23:45
3	Sr 421.552†	68182.9	68178.7	[1000]	µg/L	08:23:25
3	Sc 361.383	588109.3	588109.3	103.75	%	08:24:56
3	Y 371.029	523125.0	523125.0	100.45	%	08:24:56
3	Ag 328.068†	150544.7	145354.3	[1000]	µg/L	08:25:02
3	As 188.979†	1249.6	1216.9	[1000]	µg/L	08:25:22
3	B 249.677†	31261.0	29906.0	[1000]	µg/L	08:25:02
3	Ba 233.527†	97777.8	94300.6	[1000]	µg/L	08:25:02
3	Be 313.107†	1924506.7	1860508.3	[1000]	µg/L	08:24:56
3	Cd 226.502†	63958.8	61807.3	[1000]	µg/L	08:25:02
3	Co 228.616†	34572.4	33439.1	[1000]	µg/L	08:25:02
3	Cr 267.716†	48291.8	46466.6	[1000]	µg/L	08:25:02
3	Cu 324.752†	199327.5	189773.6	[1000]	µg/L	08:25:02
3	Mn 257.610†	626773.1	603740.9	[1000]	µg/L	08:24:56
3	Mo 202.031†	8789.8	8461.0	[1000]	µg/L	08:25:22
3	Ni 231.604†	27483.2	26603.9	[1000]	µg/L	08:25:02
3	P 214.914†	5546.9	5292.2	[5000]	µg/L	08:25:22
3	Pb 220.353†	5435.6	5068.5	[1000]	µg/L	08:25:22
3	S 181.975 Axial†	818.7	736.8	[2000]	µg/L	08:25:22
3	Sb 206.836†	2031.1	1894.0	[1000]	µg/L	08:25:22
3	Se 196.026†	497.3	529.7	[1000]	µg/L	08:25:22
3	SiO2†	87873.2	83510.1	[10695]	µg/L	08:25:02
3	Si 251.611†	91183.2	87593.0	[5000]	µg/L	08:25:02
3	Sn 189.927†	3412.4	3266.1	[1000]	µg/L	08:25:22
3	Ti 334.940†	377591.8	364440.4	[1000]	µg/L	08:25:02
3	Tl 190.801†	2038.9	1991.4	[1000]	µg/L	08:25:22
3	U 367.007†	3715.4	3043.5	[1000]	µg/L	08:25:02
3	V 292.402†	102749.8	98962.9	[1000]	µg/L	08:25:02
3	Zn 213.857†	77099.4	73603.6	[1000]	µg/L	08:25:02

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	585917.2	2172.51	0.37%	103.36	%
Sc RADIAL	6525.1	28.50	0.44%	101	%
Y 371.029	521292.3	1832.64	0.35%	100.10	%
Ag 328.068†	145757.1	426.11	0.29%	[1000]	µg/L
Al 396.153Radial†	9919.9	42.80	0.43%	[10000]	µg/L
As 188.979†	1211.4	8.76	0.72%	[1000]	µg/L
B 249.677†	29950.9	54.61	0.18%	[1000]	µg/L
Ba 233.527†	94588.3	249.24	0.26%	[1000]	µg/L
Be 313.107†	1877079.0	15002.84	0.80%	[1000]	µg/L
Ca 317.933Radial†	10509.9	70.49	0.67%	[10000]	µg/L
Cd 226.502†	62047.4	208.05	0.34%	[1000]	µg/L
Co 228.616†	33556.5	107.99	0.32%	[1000]	µg/L
Cr 267.716†	46676.1	181.86	0.39%	[1000]	µg/L
Cu 324.752†	190358.6	540.16	0.28%	[1000]	µg/L
Fe 238.204 Radial†	9531.1	73.89	0.78%	[10000]	µg/L
K 766.490 Radial†	11534.7	85.18	0.74%	[10000]	µg/L
Mg 279.077 IEC†	1326.8	9.59	0.72%	[10000]	µg/L
Mn 257.610†	609377.7	5003.56	0.82%	[1000]	µg/L
Mo 202.031†	8473.2	19.23	0.23%	[1000]	µg/L
Na 589.592 Radial†	1736.3	47.67	2.75%	[10000]	µg/L

Ni 231.604†	26703.9	87.90	0.33%	[1000]	µg/L
P 214.914†	5309.8	17.15	0.32%	[5000]	µg/L
Pb 220.353†	5085.8	22.41	0.44%	[1000]	µg/L
S 181.975 Axial†	733.6	2.87	0.39%	[2000]	µg/L
Sb 206.836†	1899.5	5.73	0.30%	[1000]	µg/L
Se 196.026†	531.7	3.06	0.58%	[1000]	µg/L
SiO2†	83657.0	127.38	0.15%	[10695]	µg/L
Si 251.611†	87728.0	118.70	0.14%	[5000]	µg/L
Sn 189.927†	3274.8	10.83	0.33%	[1000]	µg/L
Sr 421.552†	68174.4	223.66	0.33%	[1000]	µg/L
Ti 334.940†	365593.9	1047.51	0.29%	[1000]	µg/L
Tl 190.801†	2001.4	8.71	0.44%	[1000]	µg/L
U 367.007†	3008.1	83.65	2.78%	[1000]	µg/L
V 292.402†	99283.6	278.62	0.28%	[1000]	µg/L
Zn 213.857†	73864.5	226.33	0.31%	[1000]	µg/L

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Sequence No.: 5 | **Autosampler Location: 5**
Sample ID: S10 | **Date Collected: 11/5/2013 8:25:29**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	6532.9	6532.9	102	%	08:26:02
1	Al 396.153Radial†	48221.5	47667.7	[50000]	µg/L	08:25:57
1	Ca 317.933Radial†	52340.0	51501.7	[50000]	µg/L	08:26:02
1	Fe 238.204 Radial†	18655.5	18333.4	[20000]	µg/L	08:26:02
1	Mg 279.077 IEC†	6395.5	6290.5	[50000]	µg/L	08:26:02
1	Na 589.592 Radial†	3171.0	3306.1	[20000]	µg/L	08:26:02
1	Sc 361.383	579149.7	579149.7	102.17	%	08:26:29
1	Y 371.029	512312.2	512312.2	98.373	%	08:26:29
2	Sc RADIAL	6559.1	6559.1	102	%	08:26:12
2	Al 396.153Radial†	48475.9	47728.2	[50000]	µg/L	08:26:07
2	Ca 317.933Radial†	52960.9	51905.6	[50000]	µg/L	08:26:12
2	Fe 238.204 Radial†	18904.2	18504.2	[20000]	µg/L	08:26:12
2	Mg 279.077 IEC†	6467.8	6336.4	[50000]	µg/L	08:26:12
2	Na 589.592 Radial†	3244.8	3366.1	[20000]	µg/L	08:26:12
2	Sc 361.383	573811.4	573811.4	101.22	%	08:26:35
2	Y 371.029	507738.8	507738.8	97.495	%	08:26:35
3	Sc RADIAL	6507.5	6507.5	101	%	08:26:22
3	Al 396.153Radial†	48235.2	47867.1	[50000]	µg/L	08:26:17
3	Ca 317.933Radial†	52998.3	52354.3	[50000]	µg/L	08:26:22
3	Fe 238.204 Radial†	18895.1	18642.2	[20000]	µg/L	08:26:22
3	Mg 279.077 IEC†	6522.9	6441.1	[50000]	µg/L	08:26:22
3	Na 589.592 Radial†	3269.5	3415.8	[20000]	µg/L	08:26:22
3	Sc 361.383	577764.6	577764.6	101.92	%	08:26:40
3	Y 371.029	510904.0	510904.0	98.103	%	08:26:40

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	576908.6	2770.18	0.48%	101.77	%
Sc RADIAL	6533.2	25.78	0.39%	102	%
Y 371.029	510318.3	2342.28	0.46%	97.990	%
Al 396.153Radial†	47754.3	102.21	0.21%	[50000]	µg/L
Ca 317.933Radial†	51920.5	426.46	0.82%	[50000]	µg/L
Fe 238.204 Radial†	18493.3	154.71	0.84%	[20000]	µg/L
Mg 279.077 IEC†	6356.0	77.19	1.21%	[50000]	µg/L
Na 589.592 Radial†	3362.7	54.90	1.63%	[20000]	µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	145.6	0.00000	0.999995	
Al 396.153Radial	3	Lin Thru 0	0.0	0.9565	0.00000	0.999973	
As 188.979	3	Lin Thru 0	0.0	1.205	0.00000	0.999939	
B 249.677	3	Lin Thru 0	0.0	29.76	0.00000	0.999922	
Ba 233.527	3	Lin Thru 0	0.0	94.23	0.00000	0.999962	
Be 313.107	3	Lin Thru 0	0.0	1869	0.00000	0.999959	
Ca 317.933Radial	3	Lin Thru 0	0.0	1.039	0.00000	0.999997	
Cd 226.502	3	Lin Thru 0	0.0	61.84	0.00000	0.999973	
Co 228.616	3	Lin Thru 0	0.0	33.46	0.00000	0.999982	
Cr 267.716	3	Lin Thru 0	0.0	46.55	0.00000	0.999978	
Cu 324.752	3	Lin Thru 0	0.0	189.9	0.00000	0.999984	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.9304	0.00000	0.999925	
K 766.490 Radial	3	Lin Thru 0	0.0	1.150	0.00000	0.999986	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.1274	0.00000	0.999960	
Mn 257.610	3	Lin Thru 0	0.0	606.2	0.00000	0.999923	
Mo 202.031	3	Lin Thru 0	0.0	8.451	0.00000	0.999985	
Na 589.592 Radia	2	Lin Thru 0	0.0	0.1692	0.00000	0.999916	

Ni 231.604	3	Lin Thru 0	0.0	26.65	0.00000	0.999993
P 214.914	3	Lin Thru 0	0.0	1.058	0.00000	0.999968
Pb 220.353	3	Lin Thru 0	0.0	5.065	0.00000	0.999967
S 181.975 Axial	3	Lin Thru 0	0.0	0.3651	0.00000	0.999920
Sb 206.836	3	Lin Thru 0	0.0	1.893	0.00000	0.999967
Se 196.026	3	Lin Thru 0	0.0	0.5254	0.00000	0.999674
SiO2	3	Lin Thru 0	0.0	7.793	0.00000	0.999969
Si 251.611	3	Lin Thru 0	0.0	17.48	0.00000	0.999971
Sn 189.927	3	Lin Thru 0	0.0	3.262	0.00000	0.999964
Sr 421.552	3	Lin Thru 0	0.0	68.06	0.00000	0.999992
Ti 334.940	3	Lin Thru 0	0.0	365.4	0.00000	0.999997
Tl 190.801	3	Lin Thru 0	0.0	1.996	0.00000	0.999981
U 367.007	3	Lin Thru 0	0.0	3.006	0.00000	0.999996
V 292.402	3	Lin Thru 0	0.0	98.74	0.00000	0.999940
Zn 213.857	3	Lin Thru 0	0.0	73.61	0.00000	0.999970

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Sequence No.: 6 **Autosampler Location: 9**
Sample ID: ICV **Date Collected: 11/5/2013 8:26:48**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6484.0	6484.0	101	%			08:27:37
1	Al 396.153Radial†	4839.0	4977.1	5156.5	µg/L	5156.5	ppb	08:27:17
1	Ca 317.933Radial†	5530.2	5440.7	5235.6	µg/L	5235.6	ppb	08:27:37
1	Fe 238.204 Radial†	4909.0	4831.3	5197.9	µg/L	5197.9	ppb	08:27:37
1	K 766.490 Radial†	3820.4	3129.4	2713.5	µg/L	2713.5	ppb	08:27:17
1	Mg 279.077 IEC†	690.2	676.6	5312.1	µg/L	5312.1	ppb	08:27:37
1	Na 589.592 Radial†	248.0	429.2	2536.0	µg/L	2536.0	ppb	08:27:17
1	Sr 421.552†	34175.2	34798.4	511.24	µg/L	511.24	ppb	08:27:17
1	Sc 361.383	580126.9	580126.9	102.34	%			08:28:35
1	Y 371.029	518263.0	518263.0	99.516	%			08:28:35
1	Ag 328.068†	37311.6	36705.8	256.84	µg/L	256.84	ppb	08:28:35
1	As 188.979†	608.8	607.2	505.33	µg/L	505.33	ppb	08:28:55
1	B 249.677†	15647.8	15064.2	503.68	µg/L	503.68	ppb	08:28:35
1	Ba 233.527†	49264.4	48192.7	511.98	µg/L	511.98	ppb	08:28:35
1	Be 313.107†	485445.3	479859.3	257.04	µg/L	257.04	ppb	08:28:35
1	Cd 226.502†	32317.1	31737.0	512.98	µg/L	512.98	ppb	08:28:35
1	Co 228.616†	17427.9	17145.0	512.18	µg/L	512.18	ppb	08:28:35
1	Cr 267.716†	24636.2	23992.1	515.06	µg/L	515.06	ppb	08:28:35
1	Cu 324.752†	105130.7	100373.3	528.93	µg/L	528.93	ppb	08:28:35
1	Mn 257.610†	320102.2	312391.4	515.66	µg/L	515.66	ppb	08:28:35
1	Mo 202.031†	4257.5	4148.9	491.15	µg/L	491.15	ppb	08:28:55
1	Ni 231.604†	13787.0	13585.2	509.47	µg/L	509.47	ppb	08:28:35
1	P 214.914†	2780.3	2662.4	2502.6	µg/L	2502.6	ppb	08:28:55
1	Pb 220.353†	2860.9	2624.7	517.99	µg/L	517.99	ppb	08:28:55
1	S 181.975 Axial†	985.3	910.5	2502.3	µg/L	2502.3	ppb	08:28:55
1	Sb 206.836†	1016.2	929.2	487.17	µg/L	487.17	ppb	08:28:55
1	Se 196.026†	1315.1	1335.3	2551.9	µg/L	2551.9	ppb	08:28:55
1	SiO2†	86297.6	83135.9	10643	µg/L	10643	ppb	08:28:35
1	Si 251.611†	88835.4	86508.3	4914.5	µg/L	4914.5	ppb	08:28:35
1	Sn 189.927†	1725.8	1663.3	512.36	µg/L	512.36	ppb	08:28:55
1	Ti 334.940†	191135.3	187253.1	512.16	µg/L	512.16	ppb	08:28:35
1	Tl 190.801†	1025.1	1027.9	517.11	µg/L	517.11	ppb	08:28:55
1	U 367.007†	2115.9	1529.9	482.8	µg/L	482.8	ppb	08:28:35
1	V 292.402†	51136.7	49892.2	512.33	µg/L	512.33	ppb	08:28:35
1	Zn 213.857†	40024.2	38398.3	517.87	µg/L	517.87	ppb	08:28:35
2	Sc RADIAL	6527.2	6527.2	101	%			08:28:02
2	Al 396.153Radial†	4894.6	5000.2	5181.3	µg/L	5181.3	ppb	08:27:42
2	Ca 317.933Radial†	5523.2	5397.5	5194.0	µg/L	5194.0	ppb	08:28:02
2	Fe 238.204 Radial†	4883.5	4773.8	5136.1	µg/L	5136.1	ppb	08:28:02
2	K 766.490 Radial†	3724.8	3010.1	2609.9	µg/L	2609.9	ppb	08:27:42
2	Mg 279.077 IEC†	690.3	672.2	5277.0	µg/L	5277.0	ppb	08:28:02
2	Na 589.592 Radial†	231.8	411.6	2431.9	µg/L	2431.9	ppb	08:27:42
2	Sr 421.552†	34625.0	35017.6	514.46	µg/L	514.46	ppb	08:27:42
2	Sc 361.383	589048.4	589048.4	103.91	%			08:29:01
2	Y 371.029	525717.3	525717.3	100.95	%			08:29:01
2	Ag 328.068†	37168.3	36015.7	252.04	µg/L	252.04	ppb	08:29:01
2	As 188.979†	608.9	598.4	497.93	µg/L	497.93	ppb	08:29:21
2	B 249.677†	15661.7	14846.0	496.42	µg/L	496.42	ppb	08:29:01
2	Ba 233.527†	49371.6	47566.7	505.33	µg/L	505.33	ppb	08:29:01
2	Be 313.107†	486053.1	473259.9	253.51	µg/L	253.51	ppb	08:29:01
2	Cd 226.502†	32491.5	31426.5	507.96	µg/L	507.96	ppb	08:29:01
2	Co 228.616†	17447.0	16905.4	505.03	µg/L	505.03	ppb	08:29:01
2	Cr 267.716†	24717.6	23705.9	508.92	µg/L	508.92	ppb	08:29:01
2	Cu 324.752†	104950.7	98644.1	519.82	µg/L	519.82	ppb	08:29:01
2	Mn 257.610†	320366.4	307908.3	508.26	µg/L	508.26	ppb	08:29:01
2	Mo 202.031†	4272.0	4099.9	485.35	µg/L	485.35	ppb	08:29:21
2	Ni 231.604†	13781.2	13375.5	501.60	µg/L	501.60	ppb	08:29:01
2	P 214.914†	2791.6	2632.1	2474.2	µg/L	2474.2	ppb	08:29:21
2	Pb 220.353†	2888.6	2609.1	514.85	µg/L	514.85	ppb	08:29:21

2	S 181.975 Axial†	970.4	881.6	2423.0	µg/L	2423.0	ppb	08:29:21
2	Sb 206.836†	1030.3	927.8	486.42	µg/L	486.42	ppb	08:29:21
2	Se 196.026†	1313.8	1314.6	2512.3	µg/L	2512.3	ppb	08:29:21
2	SiO2†	86520.7	82073.5	10509	µg/L	10509	ppb	08:29:01
2	Si 251.611†	89024.6	85375.6	4850.9	µg/L	4850.9	ppb	08:29:01
2	Sn 189.927†	1720.1	1632.2	502.82	µg/L	502.82	ppb	08:29:21
2	Ti 334.940†	191085.8	184376.7	504.29	µg/L	504.29	ppb	08:29:01
2	Tl 190.801†	1038.7	1025.8	516.00	µg/L	516.00	ppb	08:29:21
2	U 367.007†	2135.6	1517.5	479.0	µg/L	479.0	ppb	08:29:01
2	V 292.402†	51179.0	49176.1	505.00	µg/L	505.00	ppb	08:29:01
2	Zn 213.857†	40195.1	37970.4	512.12	µg/L	512.12	ppb	08:29:01
3	Sc RADIAL	6471.3	6471.3	101	%			08:28:27
3	Al 396.153Radial†	4875.2	5022.5	5204.0	µg/L	5204.0	ppb	08:28:07
3	Ca 317.933Radial†	5541.7	5463.0	5257.0	µg/L	5257.0	ppb	08:28:27
3	Fe 238.204 Radial†	4907.4	4839.2	5206.4	µg/L	5206.4	ppb	08:28:27
3	K 766.490 Radial†	3772.1	3088.8	2678.2	µg/L	2678.2	ppb	08:28:07
3	Mg 279.077 IEC†	687.5	675.3	5301.5	µg/L	5301.5	ppb	08:28:27
3	Na 589.592 Radial†	265.7	447.2	2642.4	µg/L	2642.4	ppb	08:28:07
3	Sr 421.552†	34460.2	35148.5	516.38	µg/L	516.38	ppb	08:28:07
3	Sc 361.383	585846.2	585846.2	103.35	%			08:29:27
3	Y 371.029	522788.5	522788.5	100.38	%			08:29:27
3	Ag 328.068†	37239.1	36279.7	253.90	µg/L	253.90	ppb	08:29:27
3	As 188.979†	623.6	615.8	512.39	µg/L	512.39	ppb	08:29:47
3	B 249.677†	15664.9	14931.5	499.24	µg/L	499.24	ppb	08:29:27
3	Ba 233.527†	49547.5	47996.7	509.90	µg/L	509.90	ppb	08:29:27
3	Be 313.107†	488477.2	478162.1	256.14	µg/L	256.14	ppb	08:29:27
3	Cd 226.502†	32646.7	31747.6	513.15	µg/L	513.15	ppb	08:29:27
3	Co 228.616†	17598.1	17143.4	512.14	µg/L	512.14	ppb	08:29:27
3	Cr 267.716†	24809.0	23924.4	513.58	µg/L	513.58	ppb	08:29:27
3	Cu 324.752†	105374.7	99606.4	524.91	µg/L	524.91	ppb	08:29:27
3	Mn 257.610†	321767.2	310948.9	513.28	µg/L	513.28	ppb	08:29:27
3	Mo 202.031†	4308.3	4157.4	492.16	µg/L	492.16	ppb	08:29:47
3	Ni 231.604†	13859.6	13523.9	507.17	µg/L	507.17	ppb	08:29:27
3	P 214.914†	2803.2	2658.0	2498.5	µg/L	2498.5	ppb	08:29:47
3	Pb 220.353†	2902.9	2638.1	520.59	µg/L	520.59	ppb	08:29:47
3	S 181.975 Axial†	989.4	905.1	2487.6	µg/L	2487.6	ppb	08:29:47
3	Sb 206.836†	1031.7	934.6	490.01	µg/L	490.01	ppb	08:29:47
3	Se 196.026†	1324.1	1331.5	2544.8	µg/L	2544.8	ppb	08:29:47
3	SiO2†	87011.0	83003.0	10627	µg/L	10627	ppb	08:29:27
3	Si 251.611†	89363.7	86172.0	4895.7	µg/L	4895.7	ppb	08:29:27
3	Sn 189.927†	1732.9	1653.7	509.42	µg/L	509.42	ppb	08:29:47
3	Ti 334.940†	192051.4	186316.2	509.58	µg/L	509.58	ppb	08:29:27
3	Tl 190.801†	1039.0	1031.5	518.94	µg/L	518.94	ppb	08:29:47
3	U 367.007†	2250.6	1640.0	519.4	µg/L	519.4	ppb	08:29:27
3	V 292.402†	51415.0	49673.7	510.15	µg/L	510.15	ppb	08:29:27
3	Zn 213.857†	40392.2	38372.5	517.54	µg/L	517.54	ppb	08:29:27

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	585007.2	103.20	%	0.797				0.77%
Sc RADIAL	6494.2	101	%	0.5				0.45%
Y 371.029	522256.3	100.28	%	0.721				0.72%
Ag 328.068†	36333.7	254.26	µg/L	2.422	254.26	ppb	2.422	0.95%
QC value within limits for Ag 328.068 Recovery = 101.70%								
Al 396.153Radial†	4999.9	5180.6	µg/L	23.76	5180.6	ppb	23.76	0.46%
QC value within limits for Al 396.153Radial Recovery = 103.61%								
As 188.979†	607.1	505.21	µg/L	7.230	505.21	ppb	7.230	1.43%
QC value within limits for As 188.979 Recovery = 101.04%								
B 249.677†	14947.3	499.78	µg/L	3.663	499.78	ppb	3.663	0.73%
QC value within limits for B 249.677 Recovery = 99.96%								
Ba 233.527†	47918.7	509.07	µg/L	3.402	509.07	ppb	3.402	0.67%
QC value within limits for Ba 233.527 Recovery = 101.81%								
Be 313.107†	477093.8	255.56	µg/L	1.836	255.56	ppb	1.836	0.72%
QC value within limits for Be 313.107 Recovery = 102.23%								
Ca 317.933Radial†	5433.7	5228.9	µg/L	32.04	5228.9	ppb	32.04	0.61%
QC value within limits for Ca 317.933Radial Recovery = 104.58%								
Cd 226.502†	31637.0	511.36	µg/L	2.948	511.36	ppb	2.948	0.58%
QC value within limits for Cd 226.502 Recovery = 102.27%								
Co 228.616†	17064.6	509.78	µg/L	4.119	509.78	ppb	4.119	0.81%

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   QC value within limits for Co 228.616  Recovery = 101.96%
Cr 267.716†            23874.1      512.52 µg/L         3.208      512.52 ppb          3.208   0.63%
   QC value within limits for Cr 267.716  Recovery = 102.50%
Cu 324.752†            99541.3      524.55 µg/L         4.565      524.55 ppb          4.565   0.87%
   QC value within limits for Cu 324.752  Recovery = 104.91%
Fe 238.204 Radial†      4814.7      5180.1 µg/L         38.37      5180.1 ppb          38.37   0.74%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.60%
K 766.490 Radial†       3076.1      2667.2 µg/L         52.66      2667.2 ppb          52.66   1.97%
   QC value within limits for K 766.490 Radial  Recovery = 106.69%
Mg 279.077 IEC†          674.7      5296.9 µg/L         17.98      5296.9 ppb          17.98   0.34%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.94%
Mn 257.610†           310416.2      512.40 µg/L         3.778      512.40 ppb          3.778   0.74%
   QC value within limits for Mn 257.610  Recovery = 102.48%
Mo 202.031†             4135.4      489.56 µg/L         3.677      489.56 ppb          3.677   0.75%
   QC value within limits for Mo 202.031  Recovery = 97.91%
Na 589.592 Radial†       429.3      2536.8 µg/L        105.28      2536.8 ppb         105.28   4.15%
   QC value within limits for Na 589.592 Radial  Recovery = 101.47%
Ni 231.604†            13494.9      506.08 µg/L         4.043      506.08 ppb          4.043   0.80%
   QC value within limits for Ni 231.604  Recovery = 101.22%
P 214.914†              2650.8      2491.8 µg/L         15.35      2491.8 ppb          15.35   0.62%
   QC value within limits for P 214.914  Recovery = 99.67%
Pb 220.353†             2624.0      517.81 µg/L         2.873      517.81 ppb          2.873   0.55%
   QC value within limits for Pb 220.353  Recovery = 103.56%
S 181.975 Axial†         899.0      2471.0 µg/L         42.20      2471.0 ppb          42.20   1.71%
   QC value within limits for S 181.975 Axial  Recovery = 98.84%
Sb 206.836†              930.5      487.87 µg/L         1.890      487.87 ppb          1.890   0.39%
   QC value within limits for Sb 206.836  Recovery = 97.57%
Se 196.026†             1327.1      2536.3 µg/L         21.07      2536.3 ppb          21.07   0.83%
   QC value within limits for Se 196.026  Recovery = 101.45%
SiO2†                  82737.5       10593 µg/L          73.4       10593 ppb           73.4   0.69%
   QC value within limits for SiO2  Recovery = 99.05%
Si 251.611†            86018.7      4887.0 µg/L         32.68      4887.0 ppb          32.68   0.67%
   QC value within limits for Si 251.611  Recovery = 97.74%
Sn 189.927†             1649.7      508.20 µg/L         4.889      508.20 ppb          4.889   0.96%
   QC value within limits for Sn 189.927  Recovery = 101.64%
Sr 421.552†            34988.2      514.03 µg/L         2.598      514.03 ppb          2.598   0.51%
   QC value within limits for Sr 421.552  Recovery = 102.81%
Ti 334.940†           185982.0      508.68 µg/L         4.011      508.68 ppb          4.011   0.79%
   QC value within limits for Ti 334.940  Recovery = 101.74%
Tl 190.801†             1028.4      517.35 µg/L         1.482      517.35 ppb          1.482   0.29%
   QC value within limits for Tl 190.801  Recovery = 103.47%
U 367.007†              1562.4       493.7 µg/L         22.30       493.7 ppb          22.30   4.52%
   QC value within limits for U 367.007  Recovery = 98.75%
V 292.402†             49580.6      509.16 µg/L         3.766      509.16 ppb          3.766   0.74%
   QC value within limits for V 292.402  Recovery = 101.83%
Zn 213.857†            38247.1      515.84 µg/L         3.231      515.84 ppb          3.231   0.63%
   QC value within limits for Zn 213.857  Recovery = 103.17%
All analyte(s) passed QC.
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Sequence No.: 7 **Autosampler Location: 10**
Sample ID: ICB **Date Collected: 11/5/2013 8:29:55**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6135.3	6135.3	95.4	%			08:30:23
1	Al 396.153Radial†	-181.8	-15.4	-16.075	µg/L	-16.075	ppb	08:30:23
1	Ca 317.933Radial†	48.9	4.4	4.2022	µg/L	4.2022	ppb	08:30:43
1	Fe 238.204 Radial†	42.1	4.1	4.4420	µg/L	4.4420	ppb	08:30:43
1	K 766.490 Radial†	720.3	93.7	81.493	µg/L	81.493	ppb	08:30:23
1	Mg 279.077 IEC†	12.5	4.8	37.721	µg/L	37.721	ppb	08:30:43
1	Na 589.592 Radial†	-189.5	-15.7	-92.757	µg/L	-92.757	ppb	08:30:23
1	Sr 421.552†	-904.7	-62.6	-0.9200	µg/L	-0.9200	ppb	08:30:23
1	Sc 361.383	548359.3	548359.3	96.735	%			08:31:40
1	Y 371.029	502709.5	502709.5	96.529	%			08:31:40
1	Ag 328.068†	-248.4	-9.9	-0.0665	µg/L	-0.0665	ppb	08:31:40
1	As 188.979†	-6.4	5.8	4.8324	µg/L	4.8324	ppb	08:32:00
1	B 249.677†	341.7	127.3	4.2409	µg/L	4.2409	ppb	08:31:40
1	Ba 233.527†	-77.3	-25.7	-0.2729	µg/L	-0.2729	ppb	08:32:00
1	Be 313.107†	-5547.3	-226.3	-0.1207	µg/L	-0.1207	ppb	08:31:40
1	Cd 226.502†	-154.6	-1.4	-0.0232	µg/L	-0.0232	ppb	08:32:00
1	Co 228.616†	-111.3	0.3	0.0092	µg/L	0.0092	ppb	08:32:00
1	Cr 267.716†	128.4	51.8	1.1131	µg/L	1.1131	ppb	08:31:40
1	Cu 324.752†	2547.8	279.0	1.4702	µg/L	1.4702	ppb	08:31:40
1	Mn 257.610†	436.1	55.5	0.0907	µg/L	0.0907	ppb	08:31:40
1	Mo 202.031†	10.8	-0.1	-0.0161	µg/L	-0.0161	ppb	08:32:00
1	Ni 231.604†	-113.3	-3.8	-0.1433	µg/L	-0.1433	ppb	08:32:00
1	P 214.914†	57.8	5.4	5.0550	µg/L	5.0550	ppb	08:32:00
1	Pb 220.353†	170.3	5.3	1.0549	µg/L	1.0549	ppb	08:32:00
1	S 181.975 Axial†	52.8	2.4	6.4642	µg/L	6.4642	ppb	08:32:00
1	Sb 206.836†	65.5	3.9	2.0601	µg/L	2.0601	ppb	08:32:00
1	Se 196.026†	-38.8	10.2	19.472	µg/L	19.472	ppb	08:32:00
1	SiO2†	1243.4	96.0	10.510	µg/L	10.510	ppb	08:31:40
1	Si 251.611†	316.2	30.0	0.8517	µg/L	0.8517	ppb	08:32:00
1	Sn 189.927†	25.7	3.5	1.0669	µg/L	1.0669	ppb	08:32:00
1	Ti 334.940†	-478.8	-9.0	-0.0253	µg/L	-0.0253	ppb	08:31:40
1	Tl 190.801†	-39.4	-14.6	-7.3045	µg/L	-7.3045	ppb	08:32:00
1	U 367.007†	521.6	1.6	0.496	µg/L	0.496	ppb	08:31:40
1	V 292.402†	77.8	4.6	0.0496	µg/L	0.0496	ppb	08:31:40
1	Zn 213.857†	741.3	55.1	0.7482	µg/L	0.7482	ppb	08:32:00
2	Sc RADIAL	6157.1	6157.1	95.7	%			08:30:48
2	Al 396.153Radial†	-152.5	15.9	16.605	µg/L	16.605	ppb	08:30:48
2	Ca 317.933Radial†	56.5	12.1	11.638	µg/L	11.638	ppb	08:31:08
2	Fe 238.204 Radial†	38.8	0.5	0.5839	µg/L	0.5839	ppb	08:31:08
2	K 766.490 Radial†	681.3	50.3	43.852	µg/L	43.852	ppb	08:30:48
2	Mg 279.077 IEC†	13.9	6.2	48.966	µg/L	48.966	ppb	08:31:08
2	Na 589.592 Radial†	-216.1	-42.8	-252.94	µg/L	-252.94	ppb	08:30:48
2	Sr 421.552†	-894.4	-48.5	-0.7130	µg/L	-0.7130	ppb	08:30:48
2	Sc 361.383	544691.7	544691.7	96.088	%			08:32:05
2	Y 371.029	498950.7	498950.7	95.807	%			08:32:05
2	Ag 328.068†	-268.2	-32.2	-0.2205	µg/L	-0.2205	ppb	08:32:05
2	As 188.979†	-14.5	-2.8	-2.2889	µg/L	-2.2889	ppb	08:32:25
2	B 249.677†	297.8	83.9	2.7962	µg/L	2.7962	ppb	08:32:05
2	Ba 233.527†	-72.0	-20.8	-0.2209	µg/L	-0.2209	ppb	08:32:25
2	Be 313.107†	-5570.4	-288.9	-0.1460	µg/L	-0.1460	ppb	08:32:05
2	Cd 226.502†	-151.0	1.2	0.0204	µg/L	0.0204	ppb	08:32:25
2	Co 228.616†	-85.0	26.9	0.8040	µg/L	0.8040	ppb	08:32:25
2	Cr 267.716†	62.9	-15.5	-0.3577	µg/L	-0.3577	ppb	08:32:05
2	Cu 324.752†	2420.5	164.2	0.8895	µg/L	0.8895	ppb	08:32:05
2	Mn 257.610†	402.4	23.5	0.0371	µg/L	0.0371	ppb	08:32:05
2	Mo 202.031†	12.9	2.1	0.2488	µg/L	0.2488	ppb	08:32:25
2	Ni 231.604†	-101.7	7.4	0.2768	µg/L	0.2768	ppb	08:32:25
2	P 214.914†	58.2	6.2	5.8312	µg/L	5.8312	ppb	08:32:25
2	Pb 220.353†	170.6	6.8	1.3126	µg/L	1.3126	ppb	08:32:25

2	S 181.975 Axial†	56.7	6.7	18.485	µg/L	18.485	ppb	08:32:25
2	Sb 206.836†	68.8	7.9	4.1644	µg/L	4.1644	ppb	08:32:25
2	Se 196.026†	-52.3	-4.1	-7.5305	µg/L	-7.5305	ppb	08:32:25
2	SiO2†	1242.1	103.3	12.626	µg/L	12.626	ppb	08:32:05
2	Si 251.611†	316.8	32.8	1.4057	µg/L	1.4057	ppb	08:32:25
2	Sn 189.927†	30.0	8.1	2.4935	µg/L	2.4935	ppb	08:32:25
2	Ti 334.940†	-524.3	-59.7	-0.1825	µg/L	-0.1825	ppb	08:32:05
2	Tl 190.801†	-34.1	-9.3	-4.6412	µg/L	-4.6412	ppb	08:32:25
2	U 367.007†	636.3	124.5	41.41	µg/L	41.41	ppb	08:32:05
2	V 292.402†	81.5	8.9	0.1261	µg/L	0.1261	ppb	08:32:05
2	Zn 213.857†	762.0	81.8	1.1076	µg/L	1.1076	ppb	08:32:25
3	Sc RADIAL	6200.1	6200.1	96.4	%			08:31:13
3	Al 396.153Radial†	-211.6	-44.3	-46.305	µg/L	-46.305	ppb	08:31:13
3	Ca 317.933Radial†	47.2	2.0	1.9526	µg/L	1.9526	ppb	08:31:33
3	Fe 238.204 Radial†	40.6	2.1	2.2712	µg/L	2.2712	ppb	08:31:33
3	K 766.490 Radial†	612.8	-25.7	-22.342	µg/L	-22.342	ppb	08:31:13
3	Mg 279.077 IEC†	14.4	6.6	51.936	µg/L	51.936	ppb	08:31:33
3	Na 589.592 Radial†	-184.4	-8.3	-48.903	µg/L	-48.903	ppb	08:31:13
3	Sr 421.552†	-908.8	-56.9	-0.8365	µg/L	-0.8365	ppb	08:31:13
3	Sc 361.383	553857.8	553857.8	97.705	%			08:32:31
3	Y 371.029	507737.7	507737.7	97.495	%			08:32:31
3	Ag 328.068†	-207.6	34.4	0.2374	µg/L	0.2374	ppb	08:32:31
3	As 188.979†	-22.9	-11.1	-9.2111	µg/L	-9.2111	ppb	08:32:51
3	B 249.677†	284.4	65.1	2.1994	µg/L	2.1994	ppb	08:32:31
3	Ba 233.527†	-69.8	-17.3	-0.1832	µg/L	-0.1832	ppb	08:32:51
3	Be 313.107†	-5394.3	-12.7	-0.0049	µg/L	-0.0049	ppb	08:32:31
3	Cd 226.502†	-147.6	7.3	0.1185	µg/L	0.1185	ppb	08:32:51
3	Co 228.616†	-127.9	-15.5	-0.4617	µg/L	-0.4617	ppb	08:32:51
3	Cr 267.716†	49.0	-30.9	-0.6672	µg/L	-0.6672	ppb	08:32:31
3	Cu 324.752†	2254.3	-47.6	-0.2455	µg/L	-0.2455	ppb	08:32:31
3	Mn 257.610†	451.0	66.3	0.1077	µg/L	0.1077	ppb	08:32:31
3	Mo 202.031†	21.8	11.0	1.3023	µg/L	1.3023	ppb	08:32:51
3	Ni 231.604†	-102.5	8.4	0.3156	µg/L	0.3156	ppb	08:32:51
3	P 214.914†	61.5	8.6	8.1296	µg/L	8.1296	ppb	08:32:51
3	Pb 220.353†	161.7	-5.3	-1.0224	µg/L	-1.0224	ppb	08:32:51
3	S 181.975 Axial†	53.0	2.0	5.4908	µg/L	5.4908	ppb	08:32:51
3	Sb 206.836†	55.7	-6.8	-3.5278	µg/L	-3.5278	ppb	08:32:51
3	Se 196.026†	-43.8	5.5	10.509	µg/L	10.509	ppb	08:32:51
3	SiO2†	1190.3	28.8	4.2872	µg/L	4.2872	ppb	08:32:31
3	Si 251.611†	320.1	30.7	1.9756	µg/L	1.9756	ppb	08:32:51
3	Sn 189.927†	33.0	10.7	3.2726	µg/L	3.2726	ppb	08:32:51
3	Ti 334.940†	-577.7	-105.3	-0.2928	µg/L	-0.2928	ppb	08:32:31
3	Tl 190.801†	-31.4	-5.9	-2.9717	µg/L	-2.9717	ppb	08:32:51
3	U 367.007†	554.4	29.7	9.868	µg/L	9.868	ppb	08:32:31
3	V 292.402†	81.5	7.5	0.0972	µg/L	0.0972	ppb	08:32:31
3	Zn 213.857†	747.5	53.9	0.7289	µg/L	0.7289	ppb	08:32:51

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	548969.6	96.842	%	0.8138				0.84%
Sc RADIAL	6164.2	95.8	%	0.51				0.53%
Y 371.029	503132.6	96.610	%	0.8466				0.88%
Ag 328.068†	-2.6	-0.0165	µg/L	0.23300	-0.0165	ppb	0.23300	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-14.6	-15.258	µg/L	31.4629	-15.258	ppb	31.4629	206.20%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.7	-2.2225	µg/L	7.02198	-2.2225	ppb	7.02198	315.95%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	92.1	3.0788	µg/L	1.04969	3.0788	ppb	1.04969	34.09%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-21.3	-0.2257	µg/L	0.04506	-0.2257	ppb	0.04506	19.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-176.0	-0.0905	µg/L	0.07524	-0.0905	ppb	0.07524	83.10%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.2	5.9308	µg/L	5.06868	5.9308	ppb	5.06868	85.46%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	2.4	0.0386	µg/L	0.07259	0.0386	ppb	0.07259	188.25%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	3.9	0.1172	µg/L	0.63975	0.1172	ppb	0.63975	546.05%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                1.8      0.0294 µg/L       0.95117      0.0294 ppb        0.95117 >999.9%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              131.9      0.7048 µg/L       0.87266      0.7048 ppb        0.87266 123.82%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         2.3      2.4324 µg/L       1.93409      2.4324 ppb        1.93409  79.51%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         39.4      34.334 µg/L       52.5677      34.334 ppb        52.5677 153.11%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            5.9      46.208 µg/L        7.4979      46.208 ppb         7.4979  16.23%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               48.5      0.0785 µg/L       0.03686      0.0785 ppb        0.03686  46.95%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                4.3      0.5117 µg/L       0.69737      0.5117 ppb        0.69737 136.29%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -22.3     -131.53 µg/L       107.402     -131.53 ppb        107.402  81.65%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                4.0      0.1497 µg/L       0.25449      0.1497 ppb        0.25449 170.02%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 6.7      6.3386 µg/L       1.59885      6.3386 ppb        1.59885  25.22%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                2.3      0.4484 µg/L       1.28024      0.4484 ppb        1.28024 285.52%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           3.7      10.147 µg/L        7.2375      10.147 ppb         7.2375  71.33%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                1.7      0.8989 µg/L       3.97539      0.8989 ppb        3.97539 442.26%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                3.9      7.4835 µg/L      13.75306      7.4835 ppb       13.75306 183.78%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     76.0      9.1410 µg/L       4.33470      9.1410 ppb        4.33470  47.42%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               31.2      1.4110 µg/L       0.56195      1.4110 ppb        0.56195  39.83%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                7.4      2.2777 µg/L       1.11855      2.2777 ppb        1.11855  49.11%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -56.0     -0.8232 µg/L       0.10417     -0.8232 ppb        0.10417  12.66%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -58.0     -0.1669 µg/L       0.13442     -0.1669 ppb        0.13442  80.54%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -10.0     -4.9724 µg/L       2.18533     -4.9724 ppb        2.18533  43.95%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                51.9       17.26 µg/L        21.437       17.26 ppb         21.437 124.21%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 7.0      0.0910 µg/L       0.03864      0.0910 ppb        0.03864  42.48%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               63.6      0.8616 µg/L       0.21329      0.8616 ppb        0.21329  24.76%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 8 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/5/2013 8:32:59**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6269.6	6269.6	97.4	%			08:33:27
1	Al 396.153Radial†	44.1	220.6	229.84	µg/L	229.84	ppb	08:33:27
1	Ca 317.933Radial†	262.0	222.0	213.61	µg/L	213.61	ppb	08:33:47
1	Fe 238.204 Radial†	141.0	104.7	112.57	µg/L	112.57	ppb	08:33:47
1	K 766.490 Radial†	910.2	272.4	236.59	µg/L	236.59	ppb	08:33:27
1	Mg 279.077 IEC†	47.6	40.5	317.95	µg/L	317.95	ppb	08:33:47
1	Na 589.592 Radial†	-141.1	38.2	225.99	µg/L	225.99	ppb	08:33:27
1	Sr 421.552†	-542.4	329.5	4.8398	µg/L	4.8398	ppb	08:33:27
1	Sc 361.383	552010.7	552010.7	97.379	%			08:34:44
1	Y 371.029	503235.1	503235.1	96.630	%			08:34:44
1	Ag 328.068†	510.2	770.8	5.3588	µg/L	5.3588	ppb	08:34:44
1	As 188.979†	27.8	40.9	33.970	µg/L	33.970	ppb	08:35:04
1	B 249.677†	1710.0	1530.1	51.277	µg/L	51.277	ppb	08:34:44
1	Ba 233.527†	405.3	470.3	4.9955	µg/L	4.9955	ppb	08:35:04
1	Be 313.107†	4203.7	9825.2	5.2752	µg/L	5.2752	ppb	08:34:44
1	Cd 226.502†	151.8	314.3	5.0752	µg/L	5.0752	ppb	08:35:04
1	Co 228.616†	90.4	208.2	6.2274	µg/L	6.2274	ppb	08:35:04
1	Cr 267.716†	330.8	258.7	5.5180	µg/L	5.5180	ppb	08:34:44
1	Cu 324.752†	4342.2	2104.3	11.123	µg/L	11.123	ppb	08:34:44
1	Mn 257.610†	7183.4	6981.5	11.516	µg/L	11.516	ppb	08:34:44
1	Mo 202.031†	97.5	88.8	10.517	µg/L	10.517	ppb	08:35:04
1	Ni 231.604†	62.2	177.2	6.6463	µg/L	6.6463	ppb	08:35:04
1	P 214.914†	220.8	172.4	162.69	µg/L	162.69	ppb	08:35:04
1	Pb 220.353†	232.9	68.4	13.422	µg/L	13.422	ppb	08:35:04
1	S 181.975 Axial†	91.6	41.8	114.69	µg/L	114.69	ppb	08:35:04
1	Sb 206.836†	86.0	24.6	13.021	µg/L	13.021	ppb	08:35:04
1	Se 196.026†	-32.7	16.8	32.420	µg/L	32.420	ppb	08:35:04
1	SiO2†	2904.7	1793.5	225.79	µg/L	225.79	ppb	08:34:44
1	Si 251.611†	2107.3	1867.2	104.18	µg/L	104.18	ppb	08:34:44
1	Sn 189.927†	62.9	41.5	12.771	µg/L	12.771	ppb	08:35:04
1	Ti 334.940†	1346.7	1868.9	5.0855	µg/L	5.0855	ppb	08:34:44
1	Tl 190.801†	5.8	32.2	16.207	µg/L	16.207	ppb	08:35:04
1	U 367.007†	727.0	208.9	68.88	µg/L	68.88	ppb	08:34:44
1	V 292.402†	555.8	494.9	5.2000	µg/L	5.2000	ppb	08:34:44
1	Zn 213.857†	1473.5	801.9	10.833	µg/L	10.833	ppb	08:35:04
2	Sc RADIAL	6255.4	6255.4	97.2	%			08:33:52
2	Al 396.153Radial†	13.7	189.4	197.32	µg/L	197.32	ppb	08:33:52
2	Ca 317.933Radial†	260.9	221.4	213.06	µg/L	213.06	ppb	08:34:12
2	Fe 238.204 Radial†	140.8	104.8	112.71	µg/L	112.71	ppb	08:34:12
2	K 766.490 Radial†	810.1	171.6	148.99	µg/L	148.99	ppb	08:33:52
2	Mg 279.077 IEC†	51.8	45.0	353.43	µg/L	353.43	ppb	08:34:12
2	Na 589.592 Radial†	-144.7	34.3	202.44	µg/L	202.44	ppb	08:33:52
2	Sr 421.552†	-550.1	320.3	4.7053	µg/L	4.7053	ppb	08:33:52
2	Sc 361.383	556315.7	556315.7	98.138	%			08:35:10
2	Y 371.029	507596.3	507596.3	97.468	%			08:35:10
2	Ag 328.068†	441.2	696.4	4.8501	µg/L	4.8501	ppb	08:35:10
2	As 188.979†	27.5	40.4	33.524	µg/L	33.524	ppb	08:35:30
2	B 249.677†	1780.5	1588.3	53.278	µg/L	53.278	ppb	08:35:10
2	Ba 233.527†	421.1	483.2	5.1328	µg/L	5.1328	ppb	08:35:30
2	Be 313.107†	4191.4	9779.2	5.2471	µg/L	5.2471	ppb	08:35:10
2	Cd 226.502†	176.6	338.4	5.4639	µg/L	5.4639	ppb	08:35:30
2	Co 228.616†	73.1	189.9	5.6795	µg/L	5.6795	ppb	08:35:30
2	Cr 267.716†	340.4	265.8	5.6835	µg/L	5.6835	ppb	08:35:10
2	Cu 324.752†	4377.8	2106.1	11.123	µg/L	11.123	ppb	08:35:10
2	Mn 257.610†	7009.5	6747.2	11.129	µg/L	11.129	ppb	08:35:10
2	Mo 202.031†	93.4	83.9	9.9312	µg/L	9.9312	ppb	08:35:30
2	Ni 231.604†	51.0	165.3	6.1996	µg/L	6.1996	ppb	08:35:30
2	P 214.914†	219.9	169.7	160.19	µg/L	160.19	ppb	08:35:30
2	Pb 220.353†	223.8	57.3	11.248	µg/L	11.248	ppb	08:35:30

2	S 181.975 Axial†	100.2	49.9	136.74	µg/L	136.74 ppb	08:35:30
2	Sb 206.836†	74.6	12.3	6.4893	µg/L	6.4893 ppb	08:35:30
2	Se 196.026†	-25.3	24.5	47.096	µg/L	47.096 ppb	08:35:30
2	SiO2†	2957.5	1824.2	231.58	µg/L	231.58 ppb	08:35:10
2	Si 251.611†	2064.6	1806.8	101.66	µg/L	101.66 ppb	08:35:10
2	Sn 189.927†	55.7	33.6	10.360	µg/L	10.360 ppb	08:35:30
2	Ti 334.940†	1375.1	1887.2	5.1432	µg/L	5.1432 ppb	08:35:10
2	Tl 190.801†	20.2	46.8	23.496	µg/L	23.496 ppb	08:35:30
2	U 367.007†	681.8	157.0	51.63	µg/L	51.63 ppb	08:35:10
2	V 292.402†	594.2	529.6	5.5308	µg/L	5.5308 ppb	08:35:10
2	Zn 213.857†	1471.2	787.9	10.645	µg/L	10.645 ppb	08:35:30
3	Sc RADIAL	6315.9	6315.9	98.2	%		08:34:17
3	Al 396.153Radial†	29.5	205.4	214.02	µg/L	214.02 ppb	08:34:17
3	Ca 317.933Radial†	262.0	220.0	211.69	µg/L	211.69 ppb	08:34:37
3	Fe 238.204 Radial†	144.7	107.4	115.46	µg/L	115.46 ppb	08:34:37
3	K 766.490 Radial†	782.6	135.6	117.64	µg/L	117.64 ppb	08:34:17
3	Mg 279.077 IEC†	51.1	43.7	343.06	µg/L	343.06 ppb	08:34:37
3	Na 589.592 Radial†	-140.1	40.3	238.06	µg/L	238.06 ppb	08:34:17
3	Sr 421.552†	-565.6	309.9	4.5522	µg/L	4.5522 ppb	08:34:17
3	Sc 361.383	556074.7	556074.7	98.096	%		08:35:35
3	Y 371.029	507254.6	507254.6	97.402	%		08:35:35
3	Ag 328.068†	591.6	849.9	5.9066	µg/L	5.9066 ppb	08:35:35
3	As 188.979†	26.6	39.5	32.812	µg/L	32.812 ppb	08:35:55
3	B 249.677†	1813.6	1622.9	54.453	µg/L	54.453 ppb	08:35:35
3	Ba 233.527†	392.9	454.7	4.8297	µg/L	4.8297 ppb	08:35:55
3	Be 313.107†	4207.0	9796.9	5.2600	µg/L	5.2600 ppb	08:35:35
3	Cd 226.502†	166.3	328.0	5.2951	µg/L	5.2951 ppb	08:35:55
3	Co 228.616†	81.6	198.5	5.9378	µg/L	5.9378 ppb	08:35:55
3	Cr 267.716†	362.0	288.0	6.1504	µg/L	6.1504 ppb	08:35:35
3	Cu 324.752†	4339.9	2069.3	10.939	µg/L	10.939 ppb	08:35:35
3	Mn 257.610†	7115.4	6858.2	11.312	µg/L	11.312 ppb	08:35:35
3	Mo 202.031†	95.5	86.0	10.184	µg/L	10.184 ppb	08:35:55
3	Ni 231.604†	38.9	152.9	5.7358	µg/L	5.7358 ppb	08:35:55
3	P 214.914†	220.5	170.4	160.84	µg/L	160.84 ppb	08:35:55
3	Pb 220.353†	227.1	60.7	11.903	µg/L	11.903 ppb	08:35:55
3	S 181.975 Axial†	96.1	45.7	125.35	µg/L	125.35 ppb	08:35:55
3	Sb 206.836†	82.6	20.4	10.798	µg/L	10.798 ppb	08:35:55
3	Se 196.026†	-49.9	-0.6	-0.5863	µg/L	-0.5863 ppb	08:35:55
3	SiO2†	2939.6	1807.3	230.31	µg/L	230.31 ppb	08:35:35
3	Si 251.611†	2120.5	1864.7	105.30	µg/L	105.30 ppb	08:35:35
3	Sn 189.927†	54.3	32.3	9.9496	µg/L	9.9496 ppb	08:35:55
3	Ti 334.940†	1378.0	1890.7	5.1452	µg/L	5.1452 ppb	08:35:35
3	Tl 190.801†	22.7	49.3	24.785	µg/L	24.785 ppb	08:35:55
3	U 367.007†	728.6	205.1	67.61	µg/L	67.61 ppb	08:35:35
3	V 292.402†	611.9	547.9	5.7331	µg/L	5.7331 ppb	08:35:35
3	Zn 213.857†	1491.7	809.4	10.941	µg/L	10.941 ppb	08:35:55

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	554800.4	97.871	%	0.4267				0.44%
Sc RADIAL	6280.3	97.6	%	0.49				0.50%
Y 371.029	506028.7	97.167	%	0.4657				0.48%
Ag 328.068†	772.4	5.3718	µg/L	0.52838	5.3718	ppb	0.52838	9.84%
QC value within limits for Ag 328.068 Recovery = 107.44%								
Al 396.153Radial†	205.1	213.73	µg/L	16.266	213.73	ppb	16.266	7.61%
QC value within limits for Al 396.153Radial Recovery = 106.86%								
As 188.979†	40.3	33.436	µg/L	0.5840	33.436	ppb	0.5840	1.75%
QC value within limits for As 188.979 Recovery = 111.45%								
B 249.677†	1580.4	53.003	µg/L	1.6059	53.003	ppb	1.6059	3.03%
QC value within limits for B 249.677 Recovery = 106.01%								
Ba 233.527†	469.4	4.9860	µg/L	0.15179	4.9860	ppb	0.15179	3.04%
QC value within limits for Ba 233.527 Recovery = 99.72%								
Be 313.107†	9800.4	5.2608	µg/L	0.01408	5.2608	ppb	0.01408	0.27%
QC value within limits for Be 313.107 Recovery = 105.22%								
Ca 317.933Radial†	221.2	212.79	µg/L	0.987	212.79	ppb	0.987	0.46%
QC value within limits for Ca 317.933Radial Recovery = 106.39%								
Cd 226.502†	326.9	5.2781	µg/L	0.19492	5.2781	ppb	0.19492	3.69%
QC value within limits for Cd 226.502 Recovery = 105.56%								
Co 228.616†	198.9	5.9482	µg/L	0.27408	5.9482	ppb	0.27408	4.61%

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   QC value within limits for Co 228.616  Recovery = 118.96%
Cr 267.716†              270.8      5.7840 µg/L       0.32795      5.7840 ppb        0.32795   5.67%
   QC value within limits for Cr 267.716  Recovery = 115.68%
Cu 324.752†             2093.2      11.062 µg/L        0.1064      11.062 ppb         0.1064   0.96%
   QC value within limits for Cu 324.752  Recovery = 110.62%
Fe 238.204 Radial†       105.6      113.58 µg/L         1.632      113.58 ppb          1.632   1.44%
   QC value within limits for Fe 238.204 Radial  Recovery = 113.58%
K 766.490 Radial†        193.2      167.74 µg/L        61.649      167.74 ppb         61.649  36.75%
   QC value within limits for K 766.490 Radial  Recovery = 111.83%
Mg 279.077 IEC†           43.1      338.14 µg/L        18.242      338.14 ppb         18.242   5.39%
   QC value within limits for Mg 279.077 IEC  Recovery = 112.71%
Mn 257.610†             6862.3      11.319 µg/L        0.1939      11.319 ppb         0.1939   1.71%
   QC value within limits for Mn 257.610  Recovery = 113.19%
Mo 202.031†               86.3      10.211 µg/L        0.2941      10.211 ppb         0.2941   2.88%
   QC value within limits for Mo 202.031  Recovery = 102.11%
Na 589.592 Radial†        37.6      222.16 µg/L        18.115      222.16 ppb         18.115   8.15%
   QC value within limits for Na 589.592 Radial  Recovery = 74.05%
Ni 231.604†              165.1      6.1939 µg/L       0.45526      6.1939 ppb        0.45526   7.35%
   QC value within limits for Ni 231.604  Recovery = 123.88%
P 214.914†               170.8      161.24 µg/L         1.294      161.24 ppb          1.294   0.80%
   QC value within limits for P 214.914  Recovery = 107.49%
Pb 220.353†               62.1      12.191 µg/L        1.1155      12.191 ppb         1.1155   9.15%
   QC value within limits for Pb 220.353  Recovery = 121.91%
S 181.975 Axial†          45.8      125.59 µg/L        11.025      125.59 ppb         11.025   8.78%
   QC value within limits for S 181.975 Axial  Recovery = 125.59%
Sb 206.836†               19.1      10.103 µg/L        3.3211      10.103 ppb         3.3211  32.87%
   QC value within limits for Sb 206.836  Recovery = 101.03%
Se 196.026†               13.6      26.310 µg/L       24.4212      26.310 ppb        24.4212  92.82%
   QC value within limits for Se 196.026  Recovery = 87.70%
SiO2†                    1808.3      229.23 µg/L         3.040      229.23 ppb          3.040   1.33%
   QC value within limits for SiO2  Recovery = 107.62%
Si 251.611†              1846.2      103.71 µg/L         1.865      103.71 ppb          1.865   1.80%
   QC value within limits for Si 251.611  Recovery = 103.71%
Sn 189.927†               35.8      11.027 µg/L        1.5244      11.027 ppb         1.5244  13.82%
   QC value within limits for Sn 189.927  Recovery = 110.27%
Sr 421.552†              319.9      4.6991 µg/L       0.14388      4.6991 ppb        0.14388   3.06%
   QC value within limits for Sr 421.552  Recovery = 93.98%
Ti 334.940†              1882.3      5.1246 µg/L       0.03394      5.1246 ppb        0.03394   0.66%
   QC value within limits for Ti 334.940  Recovery = 102.49%
Tl 190.801†               42.8      21.496 µg/L        4.6254      21.496 ppb         4.6254  21.52%
   QC value within limits for Tl 190.801  Recovery = 107.48%
U 367.007†               190.3       62.71 µg/L         9.613       62.71 ppb          9.613  15.33%
   QC value within limits for U 367.007  Recovery = 125.42%
V 292.402†               524.1      5.4880 µg/L       0.26912      5.4880 ppb        0.26912   4.90%
   QC value within limits for V 292.402  Recovery = 109.76%
Zn 213.857†              799.7      10.807 µg/L        0.1498      10.807 ppb         0.1498   1.39%
   QC value within limits for Zn 213.857  Recovery = 108.07%
All analyte(s) passed QC.
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Sequence No.: 9 **Autosampler Location: 103**
Sample ID: ICSA **Date Collected: 11/5/2013 8:36:03**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6006.9	6006.9	93.4	%			08:36:38
1	Al 396.153Radial†	441914.4	473521.4	495020	µg/L	495020	ppb	08:36:33
1	Ca 317.933Radial†	471447.9	504933.2	485900	µg/L	485900	ppb	08:36:33
1	Fe 238.204 Radial†	167156.9	179006.2	192410	µg/L	192410	ppb	08:36:33
1	K 766.490 Radial†	677.3	63.9	-52.284	µg/L	-52.284	ppb	08:36:38
1	Mg 279.077 IEC†	57657.3	61750.0	484800	µg/L	484800	ppb	08:36:38
1	Na 589.592 Radial†	-172.7	-2.0	-11.666	µg/L	-11.666	ppb	08:36:38
1	Sr 421.552†	-689.3	147.8	-0.1947	µg/L	-0.1947	ppb	08:36:38
1	Sc 361.383	506334.7	506334.7	89.321	%			08:37:05
1	Y 371.029	447298.4	447298.4	85.889	%			08:37:05
1	Ag 328.068†	-7365.4	-7999.1	1.5454	µg/L	1.5454	ppb	08:37:05
1	As 188.979†	-13.4	-2.6	15.892	µg/L	15.892	ppb	08:37:25
1	B 249.677†	927.4	812.3	8.7563	µg/L	8.7563	ppb	08:37:05
1	Ba 233.527†	321.1	413.6	0.3554	µg/L	0.3554	ppb	08:37:25
1	Be 313.107†	-13701.0	-9830.7	0.0490	µg/L	0.0490	ppb	08:37:05
1	Cd 226.502†	946.0	1217.5	0.6580	µg/L	0.6580	ppb	08:37:25
1	Co 228.616†	-126.4	-26.1	-1.6342	µg/L	-1.6342	ppb	08:37:25
1	Cr 267.716†	-653.6	-812.7	-0.6421	µg/L	-0.6421	ppb	08:37:25
1	Cu 324.752†	777.7	-1484.1	1.4061	µg/L	1.4061	ppb	08:37:05
1	Mn 257.610†	531.9	200.2	-0.5068	µg/L	-0.5068	ppb	08:37:05
1	Mo 202.031†	-60.6	-79.2	-1.3596	µg/L	-1.3596	ppb	08:37:25
1	Ni 231.604†	-271.3	-190.5	-1.7794	µg/L	-1.7794	ppb	08:37:25
1	P 214.914†	89.9	46.3	38.594	µg/L	38.594	ppb	08:37:25
1	Pb 220.353†	1238.4	1215.7	21.036	µg/L	21.036	ppb	08:37:25
1	S 181.975 Axial†	78.6	35.7	28.356	µg/L	28.356	ppb	08:37:25
1	Sb 206.836†	97.9	45.8	-10.489	µg/L	-10.489	ppb	08:37:25
1	Se 196.026†	-139.1	-105.4	6.3559	µg/L	6.3559	ppb	08:37:25
1	SiO2†	815.7	-276.2	-10.500	µg/L	-10.500	ppb	08:37:25
1	Si 251.611†	254.7	-11.8	-4.3564	µg/L	-4.3564	ppb	08:37:25
1	Sn 189.927†	-312.4	-372.8	-10.180	µg/L	-10.180	ppb	08:37:25
1	Ti 334.940†	-4998.9	-5110.5	0.3593	µg/L	0.3593	ppb	08:37:05
1	Tl 190.801†	-44.9	-24.1	-11.152	µg/L	-11.152	ppb	08:37:25
1	U 367.007†	3564.1	3452.6	49.22	µg/L	49.22	ppb	08:37:05
1	V 292.402†	11.8	-62.7	0.8033	µg/L	0.8033	ppb	08:37:25
1	Zn 213.857†	2229.9	1785.2	-0.7172	µg/L	-0.7172	ppb	08:37:25
2	Sc RADIAL	5956.7	5956.7	92.6	%			08:36:48
2	Al 396.153Radial†	442969.1	478649.9	500380	µg/L	500380	ppb	08:36:43
2	Ca 317.933Radial†	472090.1	509882.8	490660	µg/L	490660	ppb	08:36:43
2	Fe 238.204 Radial†	167524.5	180912.1	194460	µg/L	194460	ppb	08:36:43
2	K 766.490 Radial†	646.0	36.1	-77.481	µg/L	-77.481	ppb	08:36:48
2	Mg 279.077 IEC†	57366.7	61956.5	486420	µg/L	486420	ppb	08:36:48
2	Na 589.592 Radial†	-173.2	-4.1	-24.077	µg/L	-24.077	ppb	08:36:48
2	Sr 421.552†	-687.2	143.9	-0.2750	µg/L	-0.2750	ppb	08:36:48
2	Sc 361.383	503792.6	503792.6	88.873	%			08:37:31
2	Y 371.029	445521.7	445521.7	85.548	%			08:37:31
2	Ag 328.068†	-7447.6	-8133.2	1.2226	µg/L	1.2226	ppb	08:37:31
2	As 188.979†	-29.2	-20.4	1.2755	µg/L	1.2755	ppb	08:37:51
2	B 249.677†	901.5	788.4	7.7675	µg/L	7.7675	ppb	08:37:31
2	Ba 233.527†	279.6	368.8	-0.1629	µg/L	-0.1629	ppb	08:37:51
2	Be 313.107†	-13834.3	-10058.1	-0.0182	µg/L	-0.0182	ppb	08:37:31
2	Cd 226.502†	919.8	1193.4	0.0655	µg/L	0.0655	ppb	08:37:51
2	Co 228.616†	-111.2	-9.7	-1.1536	µg/L	-1.1536	ppb	08:37:51
2	Cr 267.716†	-647.7	-809.8	-0.4980	µg/L	-0.4980	ppb	08:37:51
2	Cu 324.752†	704.5	-1562.1	1.0993	µg/L	1.0993	ppb	08:37:31
2	Mn 257.610†	540.0	212.3	-0.3703	µg/L	-0.3703	ppb	08:37:31
2	Mo 202.031†	-56.6	-75.0	-0.7809	µg/L	-0.7809	ppb	08:37:51
2	Ni 231.604†	-318.4	-245.0	-3.7687	µg/L	-3.7687	ppb	08:37:51
2	P 214.914†	89.3	46.1	38.432	µg/L	38.432	ppb	08:37:51
2	Pb 220.353†	1203.2	1183.0	12.205	µg/L	12.205	ppb	08:37:51

2	S 181.975 Axial†	93.0	52.4	73.295	µg/L	73.295	ppb	08:37:51
2	Sb 206.836†	109.3	59.3	-3.7690	µg/L	-3.7690	ppb	08:37:51
2	Se 196.026†	-136.1	-102.9	13.346	µg/L	13.346	ppb	08:37:51
2	SiO2†	814.1	-273.4	-9.1966	µg/L	-9.1966	ppb	08:37:51
2	Si 251.611†	268.8	5.5	-2.8999	µg/L	-2.8999	ppb	08:37:51
2	Sn 189.927†	-315.5	-378.1	-10.640	µg/L	-10.640	ppb	08:37:51
2	Ti 334.940†	-5026.1	-5169.4	0.3598	µg/L	0.3598	ppb	08:37:31
2	Tl 190.801†	-45.2	-24.7	-11.419	µg/L	-11.419	ppb	08:37:51
2	U 367.007†	3606.7	3520.6	60.22	µg/L	60.22	ppb	08:37:31
2	V 292.402†	31.3	-40.7	1.0573	µg/L	1.0573	ppb	08:37:51
2	Zn 213.857†	2218.3	1784.8	-0.9433	µg/L	-0.9433	ppb	08:37:51
3	Sc RADIAL	5960.7	5960.7	92.6	%			08:36:59
3	Al 396.153Radial†	440597.5	475774.3	497370	µg/L	497370	ppb	08:36:54
3	Ca 317.933Radial†	468938.2	506144.1	487060	µg/L	487060	ppb	08:36:54
3	Fe 238.204 Radial†	166234.3	179400.0	192830	µg/L	192830	ppb	08:36:54
3	K 766.490 Radial†	715.2	110.3	-12.438	µg/L	-12.438	ppb	08:36:59
3	Mg 279.077 IEC†	57613.2	62181.8	488190	µg/L	488190	ppb	08:36:59
3	Na 589.592 Radial†	-180.9	-12.2	-72.150	µg/L	-72.150	ppb	08:36:59
3	Sr 421.552†	-732.8	95.1	-0.9748	µg/L	-0.9748	ppb	08:36:59
3	Sc 361.383	500156.6	500156.6	88.231	%			08:37:56
3	Y 371.029	442286.0	442286.0	84.927	%			08:37:56
3	Ag 328.068†	-7518.1	-8274.0	-0.2133	µg/L	-0.2133	ppb	08:37:56
3	As 188.979†	-38.1	-30.8	-7.4869	µg/L	-7.4869	ppb	08:38:16
3	B 249.677†	955.3	856.8	10.187	µg/L	10.187	ppb	08:37:56
3	Ba 233.527†	323.2	420.4	0.4199	µg/L	0.4199	ppb	08:38:16
3	Be 313.107†	-14022.3	-10384.4	-0.2261	µg/L	-0.2261	ppb	08:37:56
3	Cd 226.502†	917.7	1198.6	0.3100	µg/L	0.3100	ppb	08:38:16
3	Co 228.616†	-102.8	-1.1	-0.8881	µg/L	-0.8881	ppb	08:38:16
3	Cr 267.716†	-666.7	-836.6	-1.0817	µg/L	-1.0817	ppb	08:38:16
3	Cu 324.752†	679.7	-1584.4	0.9224	µg/L	0.9224	ppb	08:37:56
3	Mn 257.610†	422.2	83.3	-0.7839	µg/L	-0.7839	ppb	08:37:56
3	Mo 202.031†	-55.1	-73.7	-0.6989	µg/L	-0.6989	ppb	08:38:16
3	Ni 231.604†	-303.5	-230.7	-3.2780	µg/L	-3.2780	ppb	08:38:16
3	P 214.914†	112.9	73.7	64.852	µg/L	64.852	ppb	08:38:16
3	Pb 220.353†	1158.6	1142.3	5.4133	µg/L	5.4133	ppb	08:38:16
3	S 181.975 Axial†	76.8	34.8	25.422	µg/L	25.422	ppb	08:38:16
3	Sb 206.836†	82.7	29.9	-19.009	µg/L	-19.009	ppb	08:38:16
3	Se 196.026†	-134.9	-102.6	12.687	µg/L	12.687	ppb	08:38:16
3	SiO2†	809.9	-271.5	-10.396	µg/L	-10.396	ppb	08:38:16
3	Si 251.611†	266.0	4.5	-4.0299	µg/L	-4.0299	ppb	08:38:16
3	Sn 189.927†	-301.5	-364.8	-7.6061	µg/L	-7.6061	ppb	08:38:16
3	Ti 334.940†	-5084.7	-5276.9	-0.0994	µg/L	-0.0994	ppb	08:37:56
3	Tl 190.801†	-42.9	-22.4	-10.256	µg/L	-10.256	ppb	08:38:16
3	U 367.007†	3637.2	3584.7	90.73	µg/L	90.73	ppb	08:37:56
3	V 292.402†	67.2	0.2	1.4840	µg/L	1.4840	ppb	08:38:16
3	Zn 213.857†	2199.4	1781.6	-0.8316	µg/L	-0.8316	ppb	08:38:16

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	503428.0	88.809	%	0.5478				0.62%
Sc RADIAL	5974.8	92.9	%	0.43				0.47%
Y 371.029	445035.3	85.455	%	0.4880				0.57%
Ag 328.068†	-8135.4	0.8516	µg/L	0.93623	0.8516	ppb	0.93623	109.94%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	475981.9	497590	µg/L	2687.2	497590	ppb	2687.2	0.54%
QC value within limits for Al 396.153Radial Recovery = 99.52%								
As 188.979†	-17.9	3.2269	µg/L	11.81115	3.2269	ppb	11.81115	366.02%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	819.2	8.9038	µg/L	1.21671	8.9038	ppb	1.21671	13.67%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	400.9	0.2041	µg/L	0.31949	0.2041	ppb	0.31949	156.50%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-10091.1	-0.0651	µg/L	0.14345	-0.0651	ppb	0.14345	220.30%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	506986.7	487880	µg/L	2483.4	487880	ppb	2483.4	0.51%
QC value within limits for Ca 317.933Radial Recovery = 97.58%								
Cd 226.502†	1203.1	0.3445	µg/L	0.29775	0.3445	ppb	0.29775	86.43%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-12.3	-1.2253	µg/L	0.37819	-1.2253	ppb	0.37819	30.86%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†             -819.7     -0.7406 µg/L       0.30408     -0.7406 ppb        0.30408  41.06%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -1543.5      1.1426 µg/L       0.24474      1.1426 ppb        0.24474  21.42%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†    179772.8      193230 µg/L        1081.5      193230 ppb         1081.5   0.56%
   QC value within limits for Fe 238.204 Radial  Recovery = 96.62%
K 766.490 Radial†         70.1     -47.401 µg/L       32.7952     -47.401 ppb        32.7952  69.19%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†        61962.8      486470 µg/L        1695.5      486470 ppb         1695.5   0.35%
   QC value within limits for Mg 279.077 IEC  Recovery = 97.29%
Mn 257.610†              165.3     -0.5536 µg/L       0.21074     -0.5536 ppb        0.21074  38.06%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -76.0     -0.9464 µg/L       0.36013     -0.9464 ppb        0.36013  38.05%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -6.1     -35.964 µg/L       31.9461     -35.964 ppb        31.9461  88.83%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†             -222.1     -2.9421 µg/L       1.03632     -2.9421 ppb        1.03632  35.22%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                55.4      47.293 µg/L       15.2068      47.293 ppb        15.2068  32.15%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†             1180.3      12.885 µg/L        7.8334      12.885 ppb         7.8334  60.80%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          41.0      42.358 µg/L       26.8327      42.358 ppb        26.8327  63.35%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               45.0     -11.089 µg/L        7.6375     -11.089 ppb         7.6375  68.87%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†             -103.6      10.796 µg/L        3.8596      10.796 ppb         3.8596  35.75%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                   -273.7     -10.031 µg/L        0.7241     -10.031 ppb         0.7241   7.22%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               -0.6     -3.7620 µg/L       0.76430     -3.7620 ppb        0.76430  20.32%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -371.9     -9.4754 µg/L       1.63505     -9.4754 ppb        1.63505  17.26%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              128.9     -0.4815 µg/L       0.42907     -0.4815 ppb        0.42907  89.11%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†            -5185.6      0.2066 µg/L       0.26500      0.2066 ppb        0.26500 128.29%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -23.7     -10.942 µg/L        0.6091     -10.942 ppb         0.6091   5.57%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†              3519.3       66.72 µg/L        21.508       66.72 ppb         21.508  32.23%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -34.4      1.1149 µg/L       0.34398      1.1149 ppb        0.34398  30.85%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             1783.9     -0.8307 µg/L       0.11306     -0.8307 ppb        0.11306  13.61%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 10 **Autosampler Location: 104**
Sample ID: ICSAB **Date Collected: 11/5/2013 8:38:24**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5975.4	5975.4	92.9	%			08:38:58
1	Al 396.153Radial†	435532.8	469143.0	490390	µg/L	490390	ppb	08:38:52
1	Ca 317.933Radial†	462150.8	497582.2	478820	µg/L	478820	ppb	08:38:52
1	Fe 238.204 Radial†	165370.6	178025.7	191360	µg/L	191360	ppb	08:38:52
1	K 766.490 Radial†	6575.6	6418.8	5465.7	µg/L	5465.7	ppb	08:38:58
1	Mg 279.077 IEC†	57134.2	61511.9	482930	µg/L	482930	ppb	08:38:58
1	Na 589.592 Radial†	636.0	867.9	5128.3	µg/L	5128.3	ppb	08:38:58
1	Sr 421.552†	31495.2	34799.1	508.94	µg/L	508.94	ppb	08:38:58
1	Sc 361.383	508271.4	508271.4	89.663	%			08:39:25
1	Y 371.029	450576.9	450576.9	86.519	%			08:39:25
1	Ag 328.068†	28358.2	31874.4	278.52	µg/L	278.52	ppb	08:39:25
1	As 188.979†	539.3	613.9	528.06	µg/L	528.06	ppb	08:39:45
1	B 249.677†	14906.6	16399.2	529.36	µg/L	529.36	ppb	08:39:25
1	Ba 233.527†	43265.5	48307.6	509.33	µg/L	509.33	ppb	08:39:25
1	Be 313.107†	418006.8	471706.1	257.86	µg/L	257.86	ppb	08:39:25
1	Cd 226.502†	27644.6	30990.1	482.46	µg/L	482.46	ppb	08:39:45
1	Co 228.616†	13833.3	15543.5	463.48	µg/L	463.48	ppb	08:39:45
1	Cr 267.716†	19840.2	22046.5	489.76	µg/L	489.76	ppb	08:39:45
1	Cu 324.752†	95440.2	104088.4	557.44	µg/L	557.44	ppb	08:39:25
1	Mn 257.610†	267203.5	297613.5	490.17	µg/L	490.17	ppb	08:39:25
1	Mo 202.031†	3855.6	4288.8	515.46	µg/L	515.46	ppb	08:39:45
1	Ni 231.604†	10785.4	12142.1	460.54	µg/L	460.54	ppb	08:39:45
1	P 214.914†	2578.2	2821.1	2648.9	µg/L	2648.9	ppb	08:39:45
1	Pb 220.353†	3464.5	3693.2	514.10	µg/L	514.10	ppb	08:39:45
1	S 181.975 Axial†	963.6	1022.4	2740.7	µg/L	2740.7	ppb	08:39:45
1	Sb 206.836†	961.8	1009.0	496.25	µg/L	496.25	ppb	08:39:45
1	Se 196.026†	1001.5	1167.3	2433.9	µg/L	2433.9	ppb	08:39:45
1	SiO2†	77355.0	85083.6	10853	µg/L	10853	ppb	08:39:25
1	Si 251.611†	80418.4	89392.7	5045.4	µg/L	5045.4	ppb	08:39:25
1	Sn 189.927†	1157.8	1268.2	492.64	µg/L	492.64	ppb	08:39:45
1	Ti 334.940†	170577.2	190728.6	535.59	µg/L	535.59	ppb	08:39:25
1	Tl 190.801†	807.5	926.8	467.55	µg/L	467.55	ppb	08:39:45
1	U 367.007†	5049.9	5094.4	604.4	µg/L	604.4	ppb	08:39:25
1	V 292.402†	47132.3	52490.1	540.29	µg/L	540.29	ppb	08:39:25
1	Zn 213.857†	34464.0	37726.1	484.78	µg/L	484.78	ppb	08:39:45
2	Sc RADIAL	5902.7	5902.7	91.7	%			08:39:08
2	Al 396.153Radial†	436938.9	476458.6	498040	µg/L	498040	ppb	08:39:03
2	Ca 317.933Radial†	463329.0	505002.8	485970	µg/L	485970	ppb	08:39:03
2	Fe 238.204 Radial†	165913.2	180813.0	194350	µg/L	194350	ppb	08:39:03
2	K 766.490 Radial†	6662.9	6601.2	5622.7	µg/L	5622.7	ppb	08:39:08
2	Mg 279.077 IEC†	56997.2	62121.3	487710	µg/L	487710	ppb	08:39:08
2	Na 589.592 Radial†	637.8	878.3	5189.9	µg/L	5189.9	ppb	08:39:08
2	Sr 421.552†	31321.6	35028.1	512.27	µg/L	512.27	ppb	08:39:08
2	Sc 361.383	508316.4	508316.4	89.671	%			08:39:51
2	Y 371.029	450042.9	450042.9	86.416	%			08:39:51
2	Ag 328.068†	28468.7	31994.8	280.25	µg/L	280.25	ppb	08:39:51
2	As 188.979†	546.8	622.1	535.17	µg/L	535.17	ppb	08:40:11
2	B 249.677†	14983.3	16483.2	531.82	µg/L	531.82	ppb	08:39:51
2	Ba 233.527†	43577.0	48650.8	512.92	µg/L	512.92	ppb	08:39:51
2	Be 313.107†	421086.8	475099.6	259.75	µg/L	259.75	ppb	08:39:51
2	Cd 226.502†	27558.3	30891.1	480.57	µg/L	480.57	ppb	08:40:11
2	Co 228.616†	13809.6	15515.7	462.63	µg/L	462.63	ppb	08:40:11
2	Cr 267.716†	19775.3	21972.2	488.37	µg/L	488.37	ppb	08:40:11
2	Cu 324.752†	95992.4	104694.8	560.76	µg/L	560.76	ppb	08:39:51
2	Mn 257.610†	269115.2	299719.1	493.73	µg/L	493.73	ppb	08:39:51
2	Mo 202.031†	3830.9	4260.9	512.29	µg/L	512.29	ppb	08:40:11
2	Ni 231.604†	10792.8	12149.3	460.90	µg/L	460.90	ppb	08:40:11
2	P 214.914†	2582.3	2825.4	2652.8	µg/L	2652.8	ppb	08:40:11
2	Pb 220.353†	3434.6	3659.4	504.04	µg/L	504.04	ppb	08:40:11

2	S 181.975 Axial†	960.7	1019.1	2730.5 µg/L	2730.5 ppb	08:40:11
2	Sb 206.836†	969.0	1016.9	499.89 µg/L	499.89 ppb	08:40:11
2	Se 196.026†	1000.9	1166.5	2435.1 µg/L	2435.1 ppb	08:40:11
2	SiO2†	78066.7	85869.7	10950 µg/L	10950 ppb	08:39:51
2	Si 251.611†	81072.8	90114.6	5085.2 µg/L	5085.2 ppb	08:39:51
2	Sn 189.927†	1150.3	1259.7	491.71 µg/L	491.71 ppb	08:40:11
2	Ti 334.940†	171506.5	191748.1	538.62 µg/L	538.62 ppb	08:39:51
2	Tl 190.801†	810.4	929.9	469.10 µg/L	469.10 ppb	08:40:11
2	U 367.007†	5023.7	5064.7	577.5 µg/L	577.5 ppb	08:39:51
2	V 292.402†	47511.2	52908.1	544.48 µg/L	544.48 ppb	08:39:51
2	Zn 213.857†	34456.3	37714.1	484.25 µg/L	484.25 ppb	08:40:11
3	Sc RADIAL	5910.5	5910.5	91.9 %		08:39:18
3	Al 396.153Radial†	442310.3	481677.5	503500 µg/L	503500 ppb	08:39:13
3	Ca 317.933Radial†	471016.9	512705.4	493380 µg/L	493380 ppb	08:39:13
3	Fe 238.204 Radial†	168645.3	183548.4	197290 µg/L	197290 ppb	08:39:13
3	K 766.490 Radial†	6636.5	6562.9	5588.2 µg/L	5588.2 ppb	08:39:18
3	Mg 279.077 IEC†	57659.9	62760.6	492730 µg/L	492730 ppb	08:39:18
3	Na 589.592 Radial†	655.8	896.9	5299.9 µg/L	5299.9 ppb	08:39:18
3	Sr 421.552†	31763.5	35464.1	518.64 µg/L	518.64 ppb	08:39:18
3	Sc 361.383	501850.7	501850.7	88.530 %		08:40:17
3	Y 371.029	444977.4	444977.4	85.444 %		08:40:17
3	Ag 328.068†	28188.6	32087.5	281.73 µg/L	281.73 ppb	08:40:17
3	As 188.979†	527.1	607.7	523.48 µg/L	523.48 ppb	08:40:37
3	B 249.677†	14826.6	16521.5	532.83 µg/L	532.83 ppb	08:40:17
3	Ba 233.527†	42787.5	48385.0	510.03 µg/L	510.03 ppb	08:40:17
3	Be 313.107†	412885.2	471885.5	258.11 µg/L	258.11 ppb	08:40:17
3	Cd 226.502†	27396.0	31103.8	483.72 µg/L	483.72 ppb	08:40:37
3	Co 228.616†	13727.2	15621.0	465.77 µg/L	465.77 ppb	08:40:37
3	Cr 267.716†	19631.6	22094.0	491.20 µg/L	491.20 ppb	08:40:37
3	Cu 324.752†	94511.1	104400.8	559.34 µg/L	559.34 ppb	08:40:17
3	Mn 257.610†	264312.9	298161.1	491.23 µg/L	491.23 ppb	08:40:17
3	Mo 202.031†	3826.5	4311.0	518.33 µg/L	518.33 ppb	08:40:37
3	Ni 231.604†	10696.6	12195.7	462.72 µg/L	462.72 ppb	08:40:37
3	P 214.914†	2567.3	2845.6	2671.2 µg/L	2671.2 ppb	08:40:37
3	Pb 220.353†	3415.5	3687.2	507.30 µg/L	507.30 ppb	08:40:37
3	S 181.975 Axial†	943.5	1013.5	2714.7 µg/L	2714.7 ppb	08:40:37
3	Sb 206.836†	958.8	1019.3	500.79 µg/L	500.79 ppb	08:40:37
3	Se 196.026†	995.1	1174.3	2452.8 µg/L	2452.8 ppb	08:40:37
3	SiO2†	76646.8	85387.5	10889 µg/L	10889 ppb	08:40:17
3	Si 251.611†	79642.4	89663.7	5059.8 µg/L	5059.8 ppb	08:40:17
3	Sn 189.927†	1161.8	1289.3	502.49 µg/L	502.49 ppb	08:40:37
3	Ti 334.940†	168958.8	191334.5	537.74 µg/L	537.74 ppb	08:40:17
3	Tl 190.801†	818.4	950.6	479.48 µg/L	479.48 ppb	08:40:37
3	U 367.007†	4938.2	5040.3	552.6 µg/L	552.6 ppb	08:40:17
3	V 292.402†	46616.5	52580.1	541.24 µg/L	541.24 ppb	08:40:17
3	Zn 213.857†	34219.6	37941.7	486.97 µg/L	486.97 ppb	08:40:37

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	506146.1	89.288	%	0.6562				0.73%
Sc RADIAL	5929.5	92.2	%	0.62				0.67%
Y 371.029	448532.4	86.126	%	0.5934				0.69%
Ag 328.068†	31985.5	280.16	µg/L	1.606	280.16	ppb	1.606	0.57%
QC value within limits for Ag 328.068 Recovery = 112.07%								
Al 396.153Radial†	475759.7	497310	µg/L	6582.0	497310	ppb	6582.0	1.32%
QC value within limits for Al 396.153Radial Recovery = 99.46%								
As 188.979†	614.6	528.90	µg/L	5.890	528.90	ppb	5.890	1.11%
QC value within limits for As 188.979 Recovery = 105.78%								
B 249.677†	16468.0	531.34	µg/L	1.785	531.34	ppb	1.785	0.34%
QC value within limits for B 249.677 Recovery = 106.27%								
Ba 233.527†	48447.8	510.76	µg/L	1.901	510.76	ppb	1.901	0.37%
QC value within limits for Ba 233.527 Recovery = 102.15%								
Be 313.107†	472897.1	258.57	µg/L	1.027	258.57	ppb	1.027	0.40%
QC value within limits for Be 313.107 Recovery = 103.43%								
Ca 317.933Radial†	505096.8	486060	µg/L	7277.6	486060	ppb	7277.6	1.50%
QC value within limits for Ca 317.933Radial Recovery = 97.21%								
Cd 226.502†	30995.0	482.25	µg/L	1.586	482.25	ppb	1.586	0.33%
QC value within limits for Cd 226.502 Recovery = 96.45%								
Co 228.616†	15560.0	463.96	µg/L	1.625	463.96	ppb	1.625	0.35%

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   QC value within limits for Co 228.616  Recovery = 92.79%
Cr 267.716†            22037.6      489.78 µg/L         1.412      489.78 ppb          1.412   0.29%
   QC value within limits for Cr 267.716  Recovery = 97.96%
Cu 324.752†           104394.7      559.18 µg/L         1.667      559.18 ppb          1.667   0.30%
   QC value within limits for Cu 324.752  Recovery = 111.84%
Fe 238.204 Radial†    180795.7      194330 µg/L        2968.2      194330 ppb         2968.2   1.53%
   QC value within limits for Fe 238.204 Radial  Recovery = 97.17%
K 766.490 Radial†       6527.6      5558.9 µg/L         82.48      5558.9 ppb          82.48   1.48%
   QC value within limits for K 766.490 Radial  Recovery = 111.18%
Mg 279.077 IEC†        62131.3      487790 µg/L        4902.1      487790 ppb         4902.1   1.00%
   QC value within limits for Mg 279.077 IEC  Recovery = 97.56%
Mn 257.610†           298497.9      491.71 µg/L         1.827      491.71 ppb          1.827   0.37%
   QC value within limits for Mn 257.610  Recovery = 98.34%
Mo 202.031†             4286.9      515.36 µg/L         3.025      515.36 ppb          3.025   0.59%
   QC value within limits for Mo 202.031  Recovery = 103.07%
Na 589.592 Radial†       881.0      5206.1 µg/L         86.93      5206.1 ppb          86.93   1.67%
   QC value within limits for Na 589.592 Radial  Recovery = 104.12%
Ni 231.604†            12162.4      461.39 µg/L         1.167      461.39 ppb          1.167   0.25%
   QC value within limits for Ni 231.604  Recovery = 92.28%
P 214.914†              2830.7      2657.7 µg/L         11.92      2657.7 ppb          11.92   0.45%
   QC value within limits for P 214.914  Recovery = 106.31%
Pb 220.353†             3679.9      508.48 µg/L         5.130      508.48 ppb          5.130   1.01%
   QC value within limits for Pb 220.353  Recovery = 101.70%
S 181.975 Axial†        1018.3      2728.7 µg/L         13.08      2728.7 ppb          13.08   0.48%
   QC value within limits for S 181.975 Axial  Recovery = 109.15%
Sb 206.836†             1015.1      498.97 µg/L         2.403      498.97 ppb          2.403   0.48%
   QC value within limits for Sb 206.836  Recovery = 99.79%
Se 196.026†             1169.4      2440.6 µg/L         10.59      2440.6 ppb          10.59   0.43%
   QC value within limits for Se 196.026  Recovery = 97.62%
SiO2†                  85446.9       10897 µg/L          49.1       10897 ppb           49.1   0.45%
   QC value within limits for SiO2  Recovery = 101.89%
Si 251.611†            89723.7      5063.5 µg/L         20.15      5063.5 ppb          20.15   0.40%
   QC value within limits for Si 251.611  Recovery = 101.27%
Sn 189.927†             1272.4      495.61 µg/L         5.975      495.61 ppb          5.975   1.21%
   QC value within limits for Sn 189.927  Recovery = 99.12%
Sr 421.552†            35097.1      513.28 µg/L         4.929      513.28 ppb          4.929   0.96%
   QC value within limits for Sr 421.552  Recovery = 102.66%
Ti 334.940†           191270.4      537.32 µg/L         1.560      537.32 ppb          1.560   0.29%
   QC value within limits for Ti 334.940  Recovery = 107.46%
Tl 190.801†              935.8      472.04 µg/L         6.486      472.04 ppb          6.486   1.37%
   QC value within limits for Tl 190.801  Recovery = 94.41%
U 367.007†              5066.5       578.2 µg/L         25.91       578.2 ppb          25.91   4.48%
   QC value within limits for U 367.007  Recovery = 115.63%
V 292.402†             52659.4      542.01 µg/L         2.197      542.01 ppb          2.197   0.41%
   QC value within limits for V 292.402  Recovery = 108.40%
Zn 213.857†            37794.0      485.33 µg/L         1.442      485.33 ppb          1.442   0.30%
   QC value within limits for Zn 213.857  Recovery = 97.07%
All analyte(s) passed QC.
```

Sequence No.: 11 **Autosampler Location: 105**
Sample ID: LR1 **Date Collected: 11/5/2013 8:40:45**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5759.7	5759.7	89.5	%			08:41:19
1	Al 396.153Radial†	430968.4	481611.4	503400	µg/L	503400	ppb	08:41:14
1	Ca 317.933Radial†	451746.3	504600.2	485580	µg/L	485580	ppb	08:41:14
1	Fe 238.204 Radial†	405858.5	453345.7	487280	µg/L	487280	ppb	08:41:14
1	K 766.490 Radial†	912.1	357.3	-26.650	µg/L	-26.650	ppb	08:41:19
1	Mg 279.077 IEC†	56097.5	62658.3	491930	µg/L	491930	ppb	08:41:19
1	Na 589.592 Radial†	77182.4	86403.8	510560	µg/L	510560	ppb	08:41:14
1	Sr 421.552†	-415.7	421.7	3.8315	µg/L	3.8315	ppb	08:41:19
1	Sc 361.383	496877.5	496877.5	87.653	%			08:41:46
1	Y 371.029	437522.3	437522.3	84.012	%			08:41:46
1	Ag 328.068†	-17854.0	-20122.1	-2.9065	µg/L	-2.9065	ppb	08:41:46
1	As 188.979†	-62.6	-59.1	-3.1726	µg/L	-3.1726	ppb	08:42:06
1	B 249.677†	1818.4	1848.6	15.132	µg/L	15.132	ppb	08:41:46
1	Ba 233.527†	788.6	953.9	-0.1035	µg/L	-0.1035	ppb	08:42:06
1	Be 313.107†	-17755.0	-14747.7	0.8324	µg/L	0.8324	ppb	08:41:46
1	Cd 226.502†	2622.9	3150.7	2.7593	µg/L	2.7593	ppb	08:42:06
1	Co 228.616†	19.9	138.1	1.8908	µg/L	1.8908	ppb	08:42:06
1	Cr 267.716†	-261.8	-379.6	6.4434	µg/L	6.4434	ppb	08:42:06
1	Cu 324.752†	-3057.9	-5843.5	1.5237	µg/L	1.5237	ppb	08:41:46
1	Mn 257.610†	-12195.3	-14308.4	0.3542	µg/L	0.3542	ppb	08:41:46
1	Mo 202.031†	-137.0	-167.6	0.4554	µg/L	0.4554	ppb	08:42:06
1	Ni 231.604†	-411.1	-355.8	0.2424	µg/L	0.2424	ppb	08:42:06
1	P 214.914†	360.6	357.1	96.756	µg/L	96.756	ppb	08:42:06
1	Pb 220.353†	1207.2	1206.5	9.1794	µg/L	9.1794	ppb	08:42:06
1	S 181.975 Axial†	17447.6	19853.0	54357	µg/L	54357	ppb	08:42:06
1	Sb 206.836†	95.1	44.8	-21.652	µg/L	-21.652	ppb	08:42:06
1	Se 196.026†	-233.4	-215.9	73.795	µg/L	73.795	ppb	08:42:06
1	SiO2†	-313.8	-1547.4	1.7040	µg/L	1.7040	ppb	08:42:06
1	Si 251.611†	-386.8	-738.1	-1.4697	µg/L	-1.4697	ppb	08:42:06
1	Sn 189.927†	-285.6	-348.9	-37.382	µg/L	-37.382	ppb	08:42:06
1	Ti 334.940†	-1929.0	-1714.8	1.8107	µg/L	1.8107	ppb	08:41:46
1	Tl 190.801†	-61.2	-43.6	-6.7683	µg/L	-6.7683	ppb	08:42:06
1	U 367.007†	47179.0	53287.0	15080	µg/L	15080	ppb	08:41:46
1	V 292.402†	-757.3	-939.8	6.2907	µg/L	6.2907	ppb	08:41:46
1	Zn 213.857†	4284.9	4177.2	5.4942	µg/L	5.4942	ppb	08:42:06
2	Sc RADIAL	5811.1	5811.1	90.3	%			08:41:29
2	Al 396.153Radial†	435020.5	481837.3	503640	µg/L	503640	ppb	08:41:24
2	Ca 317.933Radial†	455926.2	504762.2	485730	µg/L	485730	ppb	08:41:24
2	Fe 238.204 Radial†	408999.7	452811.3	486710	µg/L	486710	ppb	08:41:24
2	K 766.490 Radial†	882.5	315.5	-64.741	µg/L	-64.741	ppb	08:41:29
2	Mg 279.077 IEC†	56533.9	62587.0	491370	µg/L	491370	ppb	08:41:29
2	Na 589.592 Radial†	78392.9	86981.0	513970	µg/L	513970	ppb	08:41:24
2	Sr 421.552†	-445.4	393.0	3.4088	µg/L	3.4088	ppb	08:41:29
2	Sc 361.383	520024.4	520024.4	91.736	%			08:42:12
2	Y 371.029	457734.6	457734.6	87.893	%			08:42:12
2	Ag 328.068†	-17010.6	-18296.1	9.4803	µg/L	9.4803	ppb	08:42:12
2	As 188.979†	-64.1	-57.5	-1.9207	µg/L	-1.9207	ppb	08:42:32
2	B 249.677†	1634.1	1555.3	5.3498	µg/L	5.3498	ppb	08:42:12
2	Ba 233.527†	774.7	898.7	-0.6775	µg/L	-0.6775	ppb	08:42:32
2	Be 313.107†	-17215.4	-13257.9	1.3915	µg/L	1.3915	ppb	08:42:12
2	Cd 226.502†	2543.0	2930.5	-0.7452	µg/L	-0.7452	ppb	08:42:32
2	Co 228.616†	25.1	142.8	2.0339	µg/L	2.0339	ppb	08:42:32
2	Cr 267.716†	-275.9	-381.8	7.0617	µg/L	7.0617	ppb	08:42:32
2	Cu 324.752†	-2900.7	-5516.8	2.5157	µg/L	2.5157	ppb	08:42:12
2	Mn 257.610†	-11553.2	-12989.2	2.5015	µg/L	2.5015	ppb	08:42:12
2	Mo 202.031†	-133.4	-156.7	1.7193	µg/L	1.7193	ppb	08:42:32
2	Ni 231.604†	-416.1	-340.3	0.8056	µg/L	0.8056	ppb	08:42:32
2	P 214.914†	382.2	362.3	102.23	µg/L	102.23	ppb	08:42:32
2	Pb 220.353†	1185.0	1120.9	-7.3992	µg/L	-7.3992	ppb	08:42:32

2	S 181.975 Axial†	17182.6	18678.2	51139	µg/L	51139	ppb	08:42:32
2	Sb 206.836†	88.8	33.1	-27.772	µg/L	-27.772	ppb	08:42:32
2	Se 196.026†	-238.2	-209.3	79.530	µg/L	79.530	ppb	08:42:32
2	SiO2†	-292.9	-1508.7	-3.4607	µg/L	-3.4607	ppb	08:42:32
2	Si 251.611†	-375.8	-706.6	0.6500	µg/L	0.6500	ppb	08:42:32
2	Sn 189.927†	-279.0	-327.2	-30.563	µg/L	-30.563	ppb	08:42:32
2	Ti 334.940†	-1907.1	-1593.0	2.6999	µg/L	2.6999	ppb	08:42:12
2	Tl 190.801†	-57.2	-36.1	-3.9990	µg/L	-3.9990	ppb	08:42:32
2	U 367.007†	46168.1	49789.3	13920	µg/L	13920	ppb	08:42:12
2	V 292.402†	-823.3	-973.4	5.0172	µg/L	5.0172	ppb	08:42:12
2	Zn 213.857†	4273.1	3946.8	2.4134	µg/L	2.4134	ppb	08:42:32
3	Sc RADIAL	5813.0	5813.0	90.3	%			08:41:39
3	Al 396.153Radial†	438707.2	485759.4	507740	µg/L	507740	ppb	08:41:34
3	Ca 317.933Radial†	460216.1	509344.4	490140	µg/L	490140	ppb	08:41:34
3	Fe 238.204 Radial†	412675.1	456730.4	490920	µg/L	490920	ppb	08:41:34
3	K 766.490 Radial†	1057.7	509.1	98.240	µg/L	98.240	ppb	08:41:39
3	Mg 279.077 IEC†	57098.8	63191.6	496110	µg/L	496110	ppb	08:41:39
3	Na 589.592 Radial†	79875.7	88593.6	523500	µg/L	523500	ppb	08:41:34
3	Sr 421.552†	-398.2	445.3	4.1562	µg/L	4.1562	ppb	08:41:39
3	Sc 361.383	515562.0	515562.0	90.949	%			08:42:38
3	Y 371.029	453362.8	453362.8	87.054	%			08:42:38
3	Ag 328.068†	-17396.7	-18881.1	6.6362	µg/L	6.6362	ppb	08:42:38
3	As 188.979†	-53.9	-46.9	7.3019	µg/L	7.3019	ppb	08:42:58
3	B 249.677†	1660.7	1600.0	6.3688	µg/L	6.3688	ppb	08:42:38
3	Ba 233.527†	802.1	936.1	-0.3689	µg/L	-0.3689	ppb	08:42:58
3	Be 313.107†	-17605.6	-13849.3	1.2196	µg/L	1.2196	ppb	08:42:38
3	Cd 226.502†	2543.5	2955.1	-0.7642	µg/L	-0.7642	ppb	08:42:58
3	Co 228.616†	16.7	133.8	1.7435	µg/L	1.7435	ppb	08:42:58
3	Cr 267.716†	-212.3	-314.4	8.4545	µg/L	8.4545	ppb	08:42:58
3	Cu 324.752†	-2951.3	-5599.8	2.5541	µg/L	2.5541	ppb	08:42:38
3	Mn 257.610†	-11947.8	-13532.0	1.7957	µg/L	1.7957	ppb	08:42:38
3	Mo 202.031†	-143.1	-168.7	0.4752	µg/L	0.4752	ppb	08:42:58
3	Ni 231.604†	-398.8	-325.2	1.4894	µg/L	1.4894	ppb	08:42:58
3	P 214.914†	401.8	387.4	123.79	µg/L	123.79	ppb	08:42:58
3	Pb 220.353†	1176.0	1122.2	-9.0953	µg/L	-9.0953	ppb	08:42:58
3	S 181.975 Axial†	17353.0	19027.7	52096	µg/L	52096	ppb	08:42:58
3	Sb 206.836†	107.5	54.5	-16.917	µg/L	-16.917	ppb	08:42:58
3	Se 196.026†	-209.8	-180.4	140.55	µg/L	140.55	ppb	08:42:58
3	SiO2†	-249.1	-1463.3	3.3893	µg/L	3.3893	ppb	08:42:58
3	Si 251.611†	-348.6	-680.2	0.7405	µg/L	0.7405	ppb	08:42:58
3	Sn 189.927†	-287.3	-338.9	-33.535	µg/L	-33.535	ppb	08:42:58
3	Ti 334.940†	-1983.4	-1694.8	2.3294	µg/L	2.3294	ppb	08:42:38
3	Tl 190.801†	-59.5	-39.2	-5.1492	µg/L	-5.1492	ppb	08:42:58
3	U 367.007†	47075.4	51222.4	14370	µg/L	14370	ppb	08:42:38
3	V 292.402†	-798.8	-954.2	5.6017	µg/L	5.6017	ppb	08:42:38
3	Zn 213.857†	4281.5	3996.3	2.6339	µg/L	2.6339	ppb	08:42:58

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	510821.3	90.113	%	2.1663				2.40%
Sc RADIAL	5794.6	90.1	%	0.47				0.52%
Y 371.029	449539.9	86.320	%	2.0420				2.37%
Ag 328.068†	-19099.8	4.4033	µg/L	6.48828	4.4033	ppb	6.48828	147.35%
Al 396.153Radial†	483069.4	504920	µg/L	2438.0	504920	ppb	2438.0	0.48%
QC value within limits for Al 396.153Radial Recovery = 100.98%								
As 188.979†	-54.5	0.7362	µg/L	5.72043	0.7362	ppb	5.72043	777.04%
B 249.677†	1668.0	8.9501	µg/L	5.37763	8.9501	ppb	5.37763	60.08%
Ba 233.527†	929.5	-0.3833	µg/L	0.28725	-0.3833	ppb	0.28725	74.95%
Be 313.107†	-13951.7	1.1478	µg/L	0.28636	1.1478	ppb	0.28636	24.95%
Ca 317.933Radial†	506235.6	487150	µg/L	2592.0	487150	ppb	2592.0	0.53%
QC value within limits for Ca 317.933Radial Recovery = 97.43%								
Cd 226.502†	3012.1	0.4166	µg/L	2.02883	0.4166	ppb	2.02883	486.97%
Co 228.616†	138.2	1.8894	µg/L	0.14523	1.8894	ppb	0.14523	7.69%
Cr 267.716†	-358.6	7.3199	µg/L	1.03011	7.3199	ppb	1.03011	14.07%
Cu 324.752†	-5653.4	2.1978	µg/L	0.58411	2.1978	ppb	0.58411	26.58%
Fe 238.204 Radial†	454295.8	488310	µg/L	2284.4	488310	ppb	2284.4	0.47%
QC value within limits for Fe 238.204 Radial Recovery = 97.66%								
K 766.490 Radial†	394.0	2.2829	µg/L	85.25603	2.2829	ppb	85.25603	>999.9%
Mg 279.077 IEC†	62812.3	493140	µg/L	2594.3	493140	ppb	2594.3	0.53%

QC value within limits for Mg 279.077 IEC Recovery = 98.63%

Mn 257.610†	-13609.9	1.5505 µg/L	1.09448	1.5505 ppb	1.09448	70.59%
Mo 202.031†	-164.3	0.8833 µg/L	0.72403	0.8833 ppb	0.72403	81.97%
Na 589.592 Radial†	87326.1	516010 µg/L	6706.6	516010 ppb	6706.6	1.30%

QC value within limits for Na 589.592 Radial Recovery = 103.20%

Ni 231.604†	-340.4	0.8458 µg/L	0.62448	0.8458 ppb	0.62448	73.83%
P 214.914†	368.9	107.59 µg/L	14.295	107.59 ppb	14.295	13.29%
Pb 220.353†	1149.9	-2.4384 µg/L	10.09695	-2.4384 ppb	10.09695	414.09%
S 181.975 Axial†	19186.3	52531 µg/L	1652.4	52531 ppb	1652.4	3.15%

QC value within limits for S 181.975 Axial Recovery = 105.06%

Sb 206.836†	44.1	-22.114 µg/L	5.4422	-22.114 ppb	5.4422	24.61%
Se 196.026†	-201.9	97.959 µg/L	36.9987	97.959 ppb	36.9987	37.77%
SiO2†	-1506.5	0.5442 µg/L	3.56921	0.5442 ppb	3.56921	655.87%
Si 251.611†	-708.3	-0.0264 µg/L	1.25076	-0.0264 ppb	1.25076	>999.9%
Sn 189.927†	-338.3	-33.827 µg/L	3.4187	-33.827 ppb	3.4187	10.11%
Sr 421.552†	420.0	3.7989 µg/L	0.37476	3.7989 ppb	0.37476	9.86%
Ti 334.940†	-1667.5	2.2800 µg/L	0.44664	2.2800 ppb	0.44664	19.59%
Tl 190.801†	-39.7	-5.3055 µg/L	1.39127	-5.3055 ppb	1.39127	26.22%
U 367.007†	51432.9	14450 µg/L	584.9	14450 ppb	584.9	4.05%

QC value within limits for U 367.007 Recovery = 96.36%

V 292.402†	-955.8	5.6365 µg/L	0.63746	5.6365 ppb	0.63746	11.31%
Zn 213.857†	4040.1	3.5138 µg/L	1.71861	3.5138 ppb	1.71861	48.91%

All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 108**
Sample ID: LR2 **Date Collected: 11/5/2013 8:43:05**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6416.4	6416.4	99.7	%			08:43:41
1	Al 396.153Radial†	208.4	384.3	-441.56	µg/L	-441.56	ppb	08:43:41
1	Ca 317.933Radial†	86.8	40.1	38.613	µg/L	38.613	ppb	08:44:01
1	Fe 238.204 Radial†	-25.1	-65.2	18.927	µg/L	18.927	ppb	08:44:01
1	K 766.490 Radial†	319907.0	320132.4	278140	µg/L	278140	ppb	08:43:36
1	Mg 279.077 IEC†	0.1	-8.2	-64.157	µg/L	-64.157	ppb	08:44:01
1	Na 589.592 Radial†	-118.9	63.8	377.11	µg/L	377.11	ppb	08:43:41
1	Sr 421.552†	650761.1	653451.6	9600.6	µg/L	9600.6	ppb	08:43:36
1	Sc 361.383	586553.5	586553.5	103.47	%			08:45:17
1	Y 371.029	518932.2	518932.2	99.644	%			08:45:17
1	Ag 328.068†	-9017.6	-8468.1	7.0986	µg/L	7.0986	ppb	08:45:22
1	As 188.979†	12069.9	11677.2	9786.2	µg/L	9786.2	ppb	08:45:22
1	B 249.677†	147435.4	142261.5	4662.0	µg/L	4662.0	ppb	08:45:22
1	Ba 233.527†	1395466.7	1348688.9	14325	µg/L	14325	ppb	08:45:17
1	Be 313.107†	5529147.9	5349097.9	2867.3	µg/L	2867.3	ppb	08:45:11
1	Cd 226.502†	627569.3	606666.5	9815.5	µg/L	9815.5	ppb	08:45:17
1	Co 228.616†	318181.0	307618.2	9187.7	µg/L	9187.7	ppb	08:45:22
1	Cr 267.716†	1169808.4	1130468.6	24281	µg/L	24281	ppb	08:45:17
1	Cu 324.752†	3912625.2	3778962.6	19901	µg/L	19901	ppb	08:45:11
1	Mn 257.610†	5688638.2	5497332.1	9071.8	µg/L	9071.8	ppb	08:45:11
1	Mo 202.031†	83047.1	80248.8	9495.9	µg/L	9495.9	ppb	08:45:22
1	Ni 231.604†	262162.4	253477.5	9503.3	µg/L	9503.3	ppb	08:45:22
1	P 214.914†	16041.1	15448.4	14231	µg/L	14231	ppb	08:45:22
1	Pb 220.353†	126435.8	122021.9	24133	µg/L	24133	ppb	08:45:22
1	S 181.975 Axial†	58.9	4.7	195.53	µg/L	195.53	ppb	08:45:42
1	Sb 206.836†	19342.4	18629.6	9459.1	µg/L	9459.1	ppb	08:45:22
1	Se 196.026†	4911.0	4796.5	9199.5	µg/L	9199.5	ppb	08:45:42
1	SiO2†	783753.5	756261.3	92003	µg/L	92003	ppb	08:45:17
1	Si 251.611†	824267.5	796308.2	42491	µg/L	42491	ppb	08:45:17
1	Sn 189.927†	33073.5	31940.4	9824.8	µg/L	9824.8	ppb	08:45:22
1	Ti 334.940†	3739037.6	3614041.4	9880.9	µg/L	9880.9	ppb	08:45:17
1	Tl 190.801†	19189.7	18571.9	9337.5	µg/L	9337.5	ppb	08:45:22
1	U 367.007†	546.7	-9.3	33.66	µg/L	33.66	ppb	08:45:22
1	V 292.402†	1019934.6	985629.7	10150	µg/L	10150	ppb	08:45:17
1	Zn 213.857†	1110266.0	1072294.2	14506	µg/L	14506	ppb	08:45:17
2	Sc RADIAL	6242.7	6242.7	97.0	%			08:44:11
2	Al 396.153Radial†	202.8	384.4	-440.22	µg/L	-440.22	ppb	08:44:11
2	Ca 317.933Radial†	87.4	43.2	41.569	µg/L	41.569	ppb	08:44:31
2	Fe 238.204 Radial†	-26.5	-67.3	16.491	µg/L	16.491	ppb	08:44:31
2	K 766.490 Radial†	318168.5	327267.7	284340	µg/L	284340	ppb	08:44:06
2	Mg 279.077 IEC†	-5.4	-13.9	-108.87	µg/L	-108.87	ppb	08:44:31
2	Na 589.592 Radial†	-137.9	40.9	241.88	µg/L	241.88	ppb	08:44:11
2	Sr 421.552†	643287.9	663908.9	9754.2	µg/L	9754.2	ppb	08:44:06
2	Sc 361.383	584230.6	584230.6	103.06	%			08:45:56
2	Y 371.029	517274.0	517274.0	99.326	%			08:45:56
2	Ag 328.068†	-8950.8	-8438.0	5.7775	µg/L	5.7775	ppb	08:46:01
2	As 188.979†	11978.5	11635.0	9748.0	µg/L	9748.0	ppb	08:46:01
2	B 249.677†	146918.0	142326.1	4660.2	µg/L	4660.2	ppb	08:46:01
2	Ba 233.527†	1358723.9	1318400.3	14004	µg/L	14004	ppb	08:45:56
2	Be 313.107†	5562247.3	5402459.9	2895.7	µg/L	2895.7	ppb	08:45:50
2	Cd 226.502†	607252.2	589364.6	9535.7	µg/L	9535.7	ppb	08:45:56
2	Co 228.616†	316277.3	306993.7	9169.5	µg/L	9169.5	ppb	08:46:01
2	Cr 267.716†	1137444.2	1103561.3	23703	µg/L	23703	ppb	08:45:56
2	Cu 324.752†	3938904.2	3819495.4	20114	µg/L	20114	ppb	08:45:50
2	Mn 257.610†	5727312.9	5556716.6	9169.7	µg/L	9169.7	ppb	08:45:50
2	Mo 202.031†	82657.5	80189.8	9488.9	µg/L	9488.9	ppb	08:46:01
2	Ni 231.604†	260585.3	252954.6	9483.7	µg/L	9483.7	ppb	08:46:01
2	P 214.914†	15895.1	15368.4	14152	µg/L	14152	ppb	08:46:01
2	Pb 220.353†	125509.5	121608.9	24052	µg/L	24052	ppb	08:46:01

2	S 181.975 Axial†	57.5	3.5	191.55	µg/L	191.55	ppb	08:46:21
2	Sb 206.836†	19226.5	18591.4	9451.2	µg/L	9451.2	ppb	08:46:01
2	Se 196.026†	5068.4	4968.1	9525.0	µg/L	9525.0	ppb	08:46:21
2	SiO2†	762511.0	738661.8	89573	µg/L	89573	ppb	08:45:56
2	Si 251.611†	802229.5	778092.4	41384	µg/L	41384	ppb	08:45:56
2	Sn 189.927†	32878.1	31878.0	9805.1	µg/L	9805.1	ppb	08:46:01
2	Ti 334.940†	3650527.6	3542529.3	9685.5	µg/L	9685.5	ppb	08:45:56
2	Tl 190.801†	19066.6	18526.2	9313.9	µg/L	9313.9	ppb	08:46:01
2	U 367.007†	458.7	-92.6	5.250	µg/L	5.250	ppb	08:46:01
2	V 292.402†	992124.9	962565.7	9915.3	µg/L	9915.3	ppb	08:45:56
2	Zn 213.857†	1078590.6	1045826.5	14147	µg/L	14147	ppb	08:45:56
3	Sc RADIAL	5823.9	5823.9	90.5	%			08:44:42
3	Al 396.153Radial†	223.5	422.3	-428.34	µg/L	-428.34	ppb	08:44:42
3	Ca 317.933Radial†	80.5	42.0	40.421	µg/L	40.421	ppb	08:45:02
3	Fe 238.204 Radial†	-35.9	-79.7	6.0792	µg/L	6.0792	ppb	08:45:02
3	K 766.490 Radial†	321489.2	354516.0	308030	µg/L	308030	ppb	08:44:37
3	Mg 279.077 IEC†	2.3	-5.8	-45.601	µg/L	-45.601	ppb	08:45:02
3	Na 589.592 Radial†	-168.4	-3.0	-17.889	µg/L	-17.889	ppb	08:44:42
3	Sr 421.552†	652193.7	721422.5	10599	µg/L	10599	ppb	08:44:37
3	Sc 361.383	583784.6	583784.6	102.98	%			08:46:35
3	Y 371.029	516896.6	516896.6	99.253	%			08:46:35
3	Ag 328.068†	-9158.7	-8646.4	6.0443	µg/L	6.0443	ppb	08:46:40
3	As 188.979†	12501.5	12151.6	10179	µg/L	10179	ppb	08:46:40
3	B 249.677†	151652.7	147032.4	4807.2	µg/L	4807.2	ppb	08:46:40
3	Ba 233.527†	1392512.8	1352217.3	14363	µg/L	14363	ppb	08:46:35
3	Be 313.107†	5647375.5	5489244.7	2942.3	µg/L	2942.3	ppb	08:46:28
3	Cd 226.502†	625796.0	607821.3	9834.3	µg/L	9834.3	ppb	08:46:35
3	Co 228.616†	326401.8	317059.3	9470.3	µg/L	9470.3	ppb	08:46:40
3	Cr 267.716†	1165825.9	1131963.7	24313	µg/L	24313	ppb	08:46:35
3	Cu 324.752†	3992396.1	3874357.2	20403	µg/L	20403	ppb	08:46:28
3	Mn 257.610†	5803719.6	5635155.0	9299.2	µg/L	9299.2	ppb	08:46:28
3	Mo 202.031†	85336.9	82852.9	9804.0	µg/L	9804.0	ppb	08:46:40
3	Ni 231.604†	269730.0	262027.5	9823.9	µg/L	9823.9	ppb	08:46:40
3	P 214.914†	16597.0	16061.7	14800	µg/L	14800	ppb	08:46:40
3	Pb 220.353†	130505.0	126552.6	25029	µg/L	25029	ppb	08:46:40
3	S 181.975 Axial†	54.2	0.4	189.06	µg/L	189.06	ppb	08:47:00
3	Sb 206.836†	19910.6	19270.0	9801.4	µg/L	9801.4	ppb	08:46:40
3	Se 196.026†	5057.6	4961.4	9514.5	µg/L	9514.5	ppb	08:47:00
3	SiO2†	784738.4	760810.3	91907	µg/L	91907	ppb	08:46:35
3	Si 251.611†	824307.1	800124.9	42390	µg/L	42390	ppb	08:46:35
3	Sn 189.927†	34104.2	33092.9	10178	µg/L	10178	ppb	08:46:40
3	Ti 334.940†	3731558.8	3623918.6	9908.0	µg/L	9908.0	ppb	08:46:35
3	Tl 190.801†	19782.0	19235.0	9669.6	µg/L	9669.6	ppb	08:46:40
3	U 367.007†	505.0	-47.3	20.79	µg/L	20.79	ppb	08:46:40
3	V 292.402†	1017836.1	988267.3	10181	µg/L	10181	ppb	08:46:35
3	Zn 213.857†	1108500.2	1075668.9	14550	µg/L	14550	ppb	08:46:35

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	584856.3	103.17	%	0.262				0.25%
Sc RADIAL	6161.0	95.8	%	4.73				4.94%
Y 371.029	517701.0	99.408	%	0.2079				0.21%
Ag 328.068†	-8517.5	6.3068	µg/L	0.69859	6.3068	ppb	0.69859	11.08%
Al 396.153Radial†	397.0	-436.71	µg/L	7.276	-436.71	ppb	7.276	1.67%
As 188.979†	11821.3	9904.3	µg/L	238.53	9904.3	ppb	238.53	2.41%
QC value within limits for As 188.979 Recovery = 99.04%								
B 249.677†	143873.3	4709.8	µg/L	84.33	4709.8	ppb	84.33	1.79%
QC value within limits for B 249.677 Recovery = 94.20%								
Ba 233.527†	1339768.8	14231	µg/L	197.5	14231	ppb	197.5	1.39%
QC value within limits for Ba 233.527 Recovery = 94.87%								
Be 313.107†	5413600.9	2901.8	µg/L	37.86	2901.8	ppb	37.86	1.30%
QC value within limits for Be 313.107 Recovery = 96.73%								
Ca 317.933Radial†	41.7	40.201	µg/L	1.4900	40.201	ppb	1.4900	3.71%
Cd 226.502†	601284.1	9728.5	µg/L	167.25	9728.5	ppb	167.25	1.72%
QC value within limits for Cd 226.502 Recovery = 97.28%								
Co 228.616†	310557.1	9275.8	µg/L	168.67	9275.8	ppb	168.67	1.82%
QC value within limits for Co 228.616 Recovery = 92.76%								
Cr 267.716†	1121997.9	24099	µg/L	343.4	24099	ppb	343.4	1.43%
QC value within limits for Cr 267.716 Recovery = 96.40%								

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Cu 324.752†          3824271.7       20139 µg/L         252.0       20139 ppb          252.0   1.25%
   QC value within limits for Cu 324.752  Recovery = 100.70%
Fe 238.204 Radial†       -70.7      13.832 µg/L        6.8239      13.832 ppb         6.8239  49.33%
K 766.490 Radial†     333972.0      290170 µg/L       15772.8      290170 ppb        15772.8   5.44%
   QC value within limits for K 766.490 Radial  Recovery = 96.72%
Mg 279.077 IEC†           -9.3     -72.876 µg/L       32.5241     -72.876 ppb        32.5241  44.63%
Mn 257.610†          5563067.9      9180.2 µg/L        114.05      9180.2 ppb         114.05   1.24%
   QC value within limits for Mn 257.610  Recovery = 91.80%
Mo 202.031†            81097.2      9596.3 µg/L        179.96      9596.3 ppb         179.96   1.88%
   QC value within limits for Mo 202.031  Recovery = 95.96%
Na 589.592 Radial†        33.9      200.36 µg/L       200.743      200.36 ppb        200.743 100.19%
Ni 231.604†           256153.2      9603.6 µg/L        191.00      9603.6 ppb         191.00   1.99%
   QC value within limits for Ni 231.604  Recovery = 96.04%
P 214.914†             15626.2       14394 µg/L         354.0       14394 ppb          354.0   2.46%
   QC value within limits for P 214.914  Recovery = 95.96%
Pb 220.353†           123394.5       24405 µg/L         542.3       24405 ppb          542.3   2.22%
   QC value within limits for Pb 220.353  Recovery = 97.62%
S 181.975 Axial†           2.9      192.05 µg/L         3.266      192.05 ppb         3.266   1.70%
Sb 206.836†            18830.3      9570.6 µg/L        199.92      9570.6 ppb         199.92   2.09%
   QC value within limits for Sb 206.836  Recovery = 95.71%
Se 196.026†             4908.6      9413.0 µg/L        184.98      9413.0 ppb         184.98   1.97%
   QC value within limits for Se 196.026  Recovery = 94.13%
SiO2†                 751911.1       91161 µg/L        1375.9       91161 ppb         1375.9   1.51%
   QC value less than the lower limit for SiO2  Recovery = 85.20%
Si 251.611†           791508.5       42088 µg/L         612.2       42088 ppb          612.2   1.45%
   QC value less than the lower limit for Si 251.611  Recovery = 84.18%
Sn 189.927†            32303.8      9936.1 µg/L        210.00      9936.1 ppb         210.00   2.11%
   QC value within limits for Sn 189.927  Recovery = 99.36%
Sr 421.552†           679594.3      9984.7 µg/L        537.73      9984.7 ppb         537.73   5.39%
   QC value within limits for Sr 421.552  Recovery = 99.85%
Ti 334.940†          3593496.4      9824.8 µg/L        121.41      9824.8 ppb         121.41   1.24%
   QC value within limits for Ti 334.940  Recovery = 98.25%
Tl 190.801†            18777.7      9440.4 µg/L        198.90      9440.4 ppb         198.90   2.11%
   QC value within limits for Tl 190.801  Recovery = 94.40%
U 367.007†               -49.7       19.90 µg/L        14.227       19.90 ppb         14.227  71.49%
V 292.402†            978820.9       10082 µg/L         145.3       10082 ppb          145.3   1.44%
   QC value within limits for V 292.402  Recovery = 100.82%
Zn 213.857†          1064596.5       14401 µg/L         221.4       14401 ppb          221.4   1.54%
   QC value within limits for Zn 213.857  Recovery = 96.01%
QC Failed.  Continue with analysis.
```

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Analysis Begun

Start Time: 11/5/2013 9:00:46 **Plasma On Time: 11/5/2013 5:57:05**
Logged In Analyst: optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: AS-93plus

Sample Information File: C:\pe\Optima3\Sample Information\110513.sif
Batch ID:
Results Data Set: 110513A
Results Library: C:\pe\optima3\Results\Results.mdb

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Method Loaded
Method Name: Gen Eng fast_new Si2 **Method Last Saved: 11/5/2013 8:16:36**
IEC File: 100913.iec **MSF File:**
Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	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	No
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	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 367.007	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 9:00:47**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6521.9	6521.9	101	%			09:01:37
1	Al 396.153Radial†	4673.5	4786.0	4957.8	µg/L	4957.8	ppb	09:01:17
1	Ca 317.933Radial†	5268.4	5150.6	4956.4	µg/L	4956.4	ppb	09:01:37
1	Fe 238.204 Radial†	4830.5	4725.5	5084.0	µg/L	5084.0	ppb	09:01:37

1	K 766.490 Radial†	6503.2	5754.1	4991.5	µg/L	4991.5	ppb	09:01:17
1	Mg 279.077 IEC†	682.3	664.8	5219.1	µg/L	5219.1	ppb	09:01:37
1	Na 589.592 Radial†	1589.5	1751.2	10348	µg/L	10348	ppb	09:01:17
1	Sr 421.552†	33687.2	34120.4	501.28	µg/L	501.28	ppb	09:01:17
1	Sc 361.383	583144.6	583144.6	102.87	%			09:02:34
1	Y 371.029	521942.0	521942.0	100.22	%			09:02:34
1	Ag 328.068†	74827.5	72985.9	505.89	µg/L	505.89	ppb	09:02:39
1	As 188.979†	589.1	585.1	486.78	µg/L	486.78	ppb	09:02:59
1	B 249.677†	15242.5	14591.1	486.72	µg/L	486.72	ppb	09:02:39
1	Ba 233.527†	47712.3	46434.8	493.31	µg/L	493.31	ppb	09:02:39
1	Be 313.107†	929388.0	908956.8	486.64	µg/L	486.64	ppb	09:02:34
1	Cd 226.502†	31050.2	30342.0	490.42	µg/L	490.42	ppb	09:02:39
1	Co 228.616†	16877.2	16521.5	493.57	µg/L	493.57	ppb	09:02:39
1	Cr 267.716†	23691.8	22949.6	492.70	µg/L	492.70	ppb	09:02:39
1	Cu 324.752†	99779.1	94639.4	498.69	µg/L	498.69	ppb	09:02:39
1	Mn 257.610†	305251.1	296336.2	489.17	µg/L	489.17	ppb	09:02:39
1	Mo 202.031†	4305.7	4174.2	494.15	µg/L	494.15	ppb	09:02:59
1	Ni 231.604†	13475.1	13212.3	495.48	µg/L	495.48	ppb	09:02:39
1	P 214.914†	2699.9	2570.2	2415.8	µg/L	2415.8	ppb	09:02:59
1	Pb 220.353†	2722.0	2475.2	488.55	µg/L	488.55	ppb	09:02:59
1	S 181.975 Axial†	413.1	349.3	965.16	µg/L	965.16	ppb	09:02:59
1	Sb 206.836†	1023.4	931.1	488.62	µg/L	488.62	ppb	09:02:59
1	Se 196.026†	207.5	252.1	489.68	µg/L	489.68	ppb	09:02:59
1	SiO2†	43624.4	41217.4	5210.6	µg/L	5210.6	ppb	09:02:39
1	Si 251.611†	44577.9	43036.8	2403.4	µg/L	2403.4	ppb	09:02:39
1	Sn 189.927†	1666.8	1597.2	492.01	µg/L	492.01	ppb	09:02:59
1	Ti 334.940†	188055.3	183292.6	501.34	µg/L	501.34	ppb	09:02:39
1	Tl 190.801†	990.2	988.8	497.42	µg/L	497.42	ppb	09:02:59
1	U 367.007†	1996.2	1402.8	441.1	µg/L	441.1	ppb	09:02:39
1	V 292.402†	50026.8	48554.6	498.73	µg/L	498.73	ppb	09:02:39
1	Zn 213.857†	38001.0	36229.1	488.52	µg/L	488.52	ppb	09:02:39
2	Sc RADIAL	6454.8	6454.8	100	%			09:02:02
2	Al 396.153Radial†	4680.9	4841.3	5015.6	µg/L	5015.6	ppb	09:01:42
2	Ca 317.933Radial†	5216.9	5153.3	4959.0	µg/L	4959.0	ppb	09:02:02
2	Fe 238.204 Radial†	4789.6	4734.2	5093.4	µg/L	5093.4	ppb	09:02:02
2	K 766.490 Radial†	6559.4	5876.8	5098.0	µg/L	5098.0	ppb	09:01:42
2	Mg 279.077 IEC†	666.0	655.6	5147.1	µg/L	5147.1	ppb	09:02:02
2	Na 589.592 Radial†	1623.7	1801.6	10646	µg/L	10646	ppb	09:01:42
2	Sr 421.552†	33722.7	34500.9	506.87	µg/L	506.87	ppb	09:01:42
2	Sc 361.383	585102.0	585102.0	103.22	%			09:03:05
2	Y 371.029	523967.2	523967.2	100.61	%			09:03:05
2	Ag 328.068†	74707.6	72626.4	503.43	µg/L	503.43	ppb	09:03:10
2	As 188.979†	591.2	585.2	486.92	µg/L	486.92	ppb	09:03:30
2	B 249.677†	15338.8	14634.8	488.15	µg/L	488.15	ppb	09:03:10
2	Ba 233.527†	48198.4	46750.5	496.66	µg/L	496.66	ppb	09:03:10
2	Be 313.107†	935542.5	911897.0	488.22	µg/L	488.22	ppb	09:03:05
2	Cd 226.502†	31295.5	30478.7	492.63	µg/L	492.63	ppb	09:03:10
2	Co 228.616†	16939.7	16527.2	493.73	µg/L	493.73	ppb	09:03:10
2	Cr 267.716†	24094.5	23262.7	499.42	µg/L	499.42	ppb	09:03:10
2	Cu 324.752†	101025.0	95522.0	503.35	µg/L	503.35	ppb	09:03:10
2	Mn 257.610†	307187.5	297219.5	490.63	µg/L	490.63	ppb	09:03:10
2	Mo 202.031†	4289.0	4144.1	490.58	µg/L	490.58	ppb	09:03:30
2	Ni 231.604†	13537.0	13228.5	496.09	µg/L	496.09	ppb	09:03:10
2	P 214.914†	2676.8	2539.0	2386.4	µg/L	2386.4	ppb	09:03:30
2	Pb 220.353†	2723.8	2468.1	487.11	µg/L	487.11	ppb	09:03:30
2	S 181.975 Axial†	418.7	353.4	976.35	µg/L	976.35	ppb	09:03:30
2	Sb 206.836†	1023.7	928.1	486.83	µg/L	486.83	ppb	09:03:30
2	Se 196.026†	213.2	256.8	498.86	µg/L	498.86	ppb	09:03:30
2	SiO2†	43791.7	41237.7	5211.1	µg/L	5211.1	ppb	09:03:10
2	Si 251.611†	44948.0	43250.4	2414.5	µg/L	2414.5	ppb	09:03:10
2	Sn 189.927†	1653.6	1579.0	486.43	µg/L	486.43	ppb	09:03:30
2	Ti 334.940†	189066.7	183660.9	502.34	µg/L	502.34	ppb	09:03:10
2	Tl 190.801†	973.4	969.3	487.67	µg/L	487.67	ppb	09:03:30
2	U 367.007†	2035.7	1434.6	451.6	µg/L	451.6	ppb	09:03:10
2	V 292.402†	50387.7	48741.6	500.61	µg/L	500.61	ppb	09:03:10
2	Zn 213.857†	38310.2	36405.2	490.90	µg/L	490.90	ppb	09:03:10
3	Sc RADIAL	6460.0	6460.0	100	%			09:02:27
3	Al 396.153Radial†	4605.6	4762.5	4933.6	µg/L	4933.6	ppb	09:02:07
3	Ca 317.933Radial†	5229.4	5161.5	4966.9	µg/L	4966.9	ppb	09:02:27
3	Fe 238.204 Radial†	4785.5	4726.4	5084.9	µg/L	5084.9	ppb	09:02:27
3	K 766.490 Radial†	6511.9	5824.2	5052.5	µg/L	5052.5	ppb	09:02:07

3	Mg 279.077 IEC†	672.5	661.5	5193.5 µg/L	5193.5 ppb	09:02:27
3	Na 589.592 Radial†	1592.1	1768.8	10452 µg/L	10452 ppb	09:02:07
3	Sr 421.552†	33331.8	34084.7	500.75 µg/L	500.75 ppb	09:02:07
3	Sc 361.383	585781.8	585781.8	103.34 %		09:03:36
3	Y 371.029	524143.3	524143.3	100.64 %		09:03:36
3	Ag 328.068†	74285.5	72133.9	500.00 µg/L	500.00 ppb	09:03:41
3	As 188.979†	592.4	585.7	487.23 µg/L	487.23 ppb	09:04:01
3	B 249.677†	15191.9	14475.5	482.82 µg/L	482.82 ppb	09:03:41
3	Ba 233.527†	47268.1	45796.1	486.52 µg/L	486.52 ppb	09:03:41
3	Be 313.107†	935988.9	911277.1	487.89 µg/L	487.89 ppb	09:03:36
3	Cd 226.502†	30646.8	29815.8	481.91 µg/L	481.91 ppb	09:03:41
3	Co 228.616†	16733.7	16308.8	487.22 µg/L	487.22 ppb	09:03:41
3	Cr 267.716†	23493.0	22653.5	486.33 µg/L	486.33 ppb	09:03:41
3	Cu 324.752†	98946.3	93396.8	492.16 µg/L	492.16 ppb	09:03:41
3	Mn 257.610†	303089.5	292908.4	483.51 µg/L	483.51 ppb	09:03:41
3	Mo 202.031†	4302.3	4152.1	491.53 µg/L	491.53 ppb	09:04:01
3	Ni 231.604†	13334.2	13017.0	488.16 µg/L	488.16 ppb	09:03:41
3	P 214.914†	2709.1	2567.3	2413.2 µg/L	2413.2 ppb	09:04:01
3	Pb 220.353†	2723.3	2464.5	486.44 µg/L	486.44 ppb	09:04:01
3	S 181.975 Axial†	411.9	346.3	956.95 µg/L	956.95 ppb	09:04:01
3	Sb 206.836†	1004.3	908.2	476.59 µg/L	476.59 ppb	09:04:01
3	Se 196.026†	208.0	251.6	488.94 µg/L	488.94 ppb	09:04:01
3	SiO2†	43261.2	40675.0	5139.4 µg/L	5139.4 ppb	09:03:41
3	Si 251.611†	44364.5	42635.2	2379.8 µg/L	2379.8 ppb	09:03:41
3	Sn 189.927†	1671.2	1594.2	491.07 µg/L	491.07 ppb	09:04:01
3	Ti 334.940†	186704.0	181161.9	495.50 µg/L	495.50 ppb	09:03:41
3	Tl 190.801†	982.6	977.1	491.58 µg/L	491.58 ppb	09:04:01
3	U 367.007†	2077.7	1473.0	464.4 µg/L	464.4 ppb	09:03:41
3	V 292.402†	49642.4	47963.7	492.72 µg/L	492.72 ppb	09:03:41
3	Zn 213.857†	37824.3	35891.8	483.98 µg/L	483.98 ppb	09:03:41

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	584676.1	103.14	%	0.242				0.23%
Sc RADIAL	6478.9	101	%	0.6				0.58%
Y 371.029	523350.8	100.49	%	0.235				0.23%
Ag 328.068†	72582.0	503.10	µg/L	2.959	503.10	ppb	2.959	0.59%
QC value within limits for Ag 328.068 Recovery = 100.62%								
Al 396.153Radial†	4796.6	4969.0	µg/L	42.12	4969.0	ppb	42.12	0.85%
QC value within limits for Al 396.153Radial Recovery = 99.38%								
As 188.979†	585.3	486.98	µg/L	0.232	486.98	ppb	0.232	0.05%
QC value within limits for As 188.979 Recovery = 97.40%								
B 249.677†	14567.1	485.90	µg/L	2.762	485.90	ppb	2.762	0.57%
QC value within limits for B 249.677 Recovery = 97.18%								
Ba 233.527†	46327.1	492.17	µg/L	5.165	492.17	ppb	5.165	1.05%
QC value within limits for Ba 233.527 Recovery = 98.43%								
Be 313.107†	910710.3	487.58	µg/L	0.831	487.58	ppb	0.831	0.17%
QC value within limits for Be 313.107 Recovery = 97.52%								
Ca 317.933Radial†	5155.2	4960.8	µg/L	5.48	4960.8	ppb	5.48	0.11%
QC value within limits for Ca 317.933Radial Recovery = 99.22%								
Cd 226.502†	30212.1	488.32	µg/L	5.662	488.32	ppb	5.662	1.16%
QC value within limits for Cd 226.502 Recovery = 97.66%								
Co 228.616†	16452.5	491.51	µg/L	3.714	491.51	ppb	3.714	0.76%
QC value within limits for Co 228.616 Recovery = 98.30%								
Cr 267.716†	22955.3	492.82	µg/L	6.546	492.82	ppb	6.546	1.33%
QC value within limits for Cr 267.716 Recovery = 98.56%								
Cu 324.752†	94519.4	498.07	µg/L	5.620	498.07	ppb	5.620	1.13%
QC value within limits for Cu 324.752 Recovery = 99.61%								
Fe 238.204 Radial†	4728.7	5087.4	µg/L	5.18	5087.4	ppb	5.18	0.10%
QC value within limits for Fe 238.204 Radial Recovery = 101.75%								
K 766.490 Radial†	5818.4	5047.3	µg/L	53.39	5047.3	ppb	53.39	1.06%
QC value within limits for K 766.490 Radial Recovery = 100.95%								
Mg 279.077 IEC†	660.6	5186.6	µg/L	36.53	5186.6	ppb	36.53	0.70%
QC value within limits for Mg 279.077 IEC Recovery = 103.73%								
Mn 257.610†	295488.0	487.77	µg/L	3.758	487.77	ppb	3.758	0.77%
QC value within limits for Mn 257.610 Recovery = 97.55%								
Mo 202.031†	4156.8	492.09	µg/L	1.848	492.09	ppb	1.848	0.38%
QC value within limits for Mo 202.031 Recovery = 98.42%								
Na 589.592 Radial†	1773.9	10482	µg/L	151.1	10482	ppb	151.1	1.44%

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   QC value within limits for Na 589.592 Radial  Recovery = 104.82%
Ni 231.604†            13152.6      493.24 µg/L         4.415      493.24 ppb          4.415   0.90%
   QC value within limits for Ni 231.604  Recovery = 98.65%
P 214.914†              2558.8      2405.2 µg/L         16.29      2405.2 ppb          16.29   0.68%
   QC value within limits for P 214.914  Recovery = 96.21%
Pb 220.353†             2469.3      487.37 µg/L         1.081      487.37 ppb          1.081   0.22%
   QC value within limits for Pb 220.353  Recovery = 97.47%
S 181.975 Axial†         349.7      966.15 µg/L         9.738      966.15 ppb          9.738   1.01%
   QC value within limits for S 181.975 Axial  Recovery = 96.61%
Sb 206.836†              922.5      484.01 µg/L         6.488      484.01 ppb          6.488   1.34%
   QC value within limits for Sb 206.836  Recovery = 96.80%
Se 196.026†              253.5      492.49 µg/L         5.529      492.49 ppb          5.529   1.12%
   QC value within limits for Se 196.026  Recovery = 98.50%
SiO2†                  41043.4      5187.0 µg/L         41.23      5187.0 ppb          41.23   0.79%
   QC value within limits for SiO2  Recovery = 97.00%
Si 251.611†            42974.1      2399.2 µg/L         17.73      2399.2 ppb          17.73   0.74%
   QC value within limits for Si 251.611  Recovery = 95.97%
Sn 189.927†             1590.1      489.84 µg/L         2.988      489.84 ppb          2.988   0.61%
   QC value within limits for Sn 189.927  Recovery = 97.97%
Sr 421.552†            34235.3      502.97 µg/L         3.389      502.97 ppb          3.389   0.67%
   QC value within limits for Sr 421.552  Recovery = 100.59%
Ti 334.940†           182705.1      499.73 µg/L         3.694      499.73 ppb          3.694   0.74%
   QC value within limits for Ti 334.940  Recovery = 99.95%
Tl 190.801†              978.4      492.22 µg/L         4.908      492.22 ppb          4.908   1.00%
   QC value within limits for Tl 190.801  Recovery = 98.44%
U 367.007†              1436.8       452.4 µg/L         11.68       452.4 ppb          11.68   2.58%
   QC value within limits for U 367.007  Recovery = 90.47%
V 292.402†             48420.0      497.35 µg/L         4.121      497.35 ppb          4.121   0.83%
   QC value within limits for V 292.402  Recovery = 99.47%
Zn 213.857†            36175.4      487.80 µg/L         3.516      487.80 ppb          3.516   0.72%
   QC value within limits for Zn 213.857  Recovery = 97.56%
All analyte(s) passed QC.
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Sequence No.: 2
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/5/2013 9:04:09
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6355.7	6355.7	98.8	%			09:04:37
1	Al 396.153Radial†	-182.4	-9.4	-9.8545	µg/L	-9.8545	ppb	09:04:37
1	Ca 317.933Radial†	52.1	5.9	5.6270	µg/L	5.6270	ppb	09:04:57
1	Fe 238.204 Radial†	36.5	-3.1	-3.2843	µg/L	-3.2843	ppb	09:04:57
1	K 766.490 Radial†	747.6	95.2	82.712	µg/L	82.712	ppb	09:04:37
1	Mg 279.077 IEC†	10.7	2.5	19.903	µg/L	19.903	ppb	09:04:57
1	Na 589.592 Radial†	-167.9	13.0	77.081	µg/L	77.081	ppb	09:04:37
1	Sr 421.552†	-870.1	5.2	0.0770	µg/L	0.0770	ppb	09:04:37
1	Sc 361.383	570647.9	570647.9	100.67	%			09:05:54
1	Y 371.029	524715.5	524715.5	100.75	%			09:05:54
1	Ag 328.068†	-209.4	38.9	0.2712	µg/L	0.2712	ppb	09:05:54
1	As 188.979†	-20.7	-8.2	-6.8048	µg/L	-6.8048	ppb	09:06:14
1	B 249.677†	282.3	54.5	1.7926	µg/L	1.7926	ppb	09:05:54
1	Ba 233.527†	-70.8	-16.2	-0.1704	µg/L	-0.1704	ppb	09:06:14
1	Be 313.107†	-5384.2	159.7	0.0897	µg/L	0.0897	ppb	09:05:54
1	Cd 226.502†	-141.4	18.0	0.2912	µg/L	0.2912	ppb	09:06:14
1	Co 228.616†	-102.2	13.8	0.4143	µg/L	0.4143	ppb	09:06:14
1	Cr 267.716†	122.2	40.4	0.8562	µg/L	0.8562	ppb	09:05:54
1	Cu 324.752†	2329.6	-40.6	-0.2031	µg/L	-0.2031	ppb	09:05:54
1	Mn 257.610†	328.3	-69.1	-0.1149	µg/L	-0.1149	ppb	09:05:54
1	Mo 202.031†	21.8	10.4	1.2253	µg/L	1.2253	ppb	09:06:14
1	Ni 231.604†	-95.5	18.4	0.6911	µg/L	0.6911	ppb	09:06:14
1	P 214.914†	45.0	-9.7	-9.1571	µg/L	-9.1571	ppb	09:06:14
1	Pb 220.353†	192.9	20.8	4.1075	µg/L	4.1075	ppb	09:06:14
1	S 181.975 Axial†	47.6	-4.9	-13.505	µg/L	-13.505	ppb	09:06:14
1	Sb 206.836†	79.2	15.0	7.9081	µg/L	7.9081	ppb	09:06:14
1	Se 196.026†	-50.1	0.6	1.2338	µg/L	1.2338	ppb	09:06:14
1	SiO2†	1238.8	41.1	3.6251	µg/L	3.6251	ppb	09:05:54
1	Si 251.611†	311.1	12.1	-0.1985	µg/L	-0.1985	ppb	09:06:14
1	Sn 189.927†	25.7	2.5	0.7639	µg/L	0.7639	ppb	09:06:14
1	Ti 334.940†	-418.6	70.1	0.1825	µg/L	0.1825	ppb	09:05:54
1	Tl 190.801†	-23.5	2.9	1.4667	µg/L	1.4667	ppb	09:06:14
1	U 367.007†	600.0	58.3	19.41	µg/L	19.41	ppb	09:05:54
1	V 292.402†	152.0	75.1	0.7923	µg/L	0.7923	ppb	09:05:54
1	Zn 213.857†	711.1	-4.9	-0.0701	µg/L	-0.0701	ppb	09:06:14
2	Sc RADIAL	6391.0	6391.0	99.3	%			09:05:02
2	Al 396.153Radial†	-175.7	-1.5	-1.6323	µg/L	-1.6323	ppb	09:05:02
2	Ca 317.933Radial†	44.0	-2.6	-2.5613	µg/L	-2.5613	ppb	09:05:22
2	Fe 238.204 Radial†	41.1	1.4	1.4792	µg/L	1.4792	ppb	09:05:22
2	K 766.490 Radial†	856.3	200.5	174.14	µg/L	174.14	ppb	09:05:02
2	Mg 279.077 IEC†	15.1	6.9	54.244	µg/L	54.244	ppb	09:05:22
2	Na 589.592 Radial†	-143.9	38.2	225.53	µg/L	225.53	ppb	09:05:02
2	Sr 421.552†	-897.7	-17.7	-0.2597	µg/L	-0.2597	ppb	09:05:02
2	Sc 361.383	568509.1	568509.1	100.29	%			09:06:19
2	Y 371.029	522854.0	522854.0	100.40	%			09:06:19
2	Ag 328.068†	-282.3	-34.7	-0.2379	µg/L	-0.2379	ppb	09:06:19
2	As 188.979†	-15.0	-2.6	-2.1472	µg/L	-2.1472	ppb	09:06:40
2	B 249.677†	281.8	55.0	1.7635	µg/L	1.7635	ppb	09:06:19
2	Ba 233.527†	-69.1	-14.8	-0.1570	µg/L	-0.1570	ppb	09:06:40
2	Be 313.107†	-5344.2	179.6	0.0969	µg/L	0.0969	ppb	09:06:19
2	Cd 226.502†	-141.1	17.7	0.2869	µg/L	0.2869	ppb	09:06:40
2	Co 228.616†	-106.6	9.1	0.2709	µg/L	0.2709	ppb	09:06:40
2	Cr 267.716†	60.7	-20.5	-0.4416	µg/L	-0.4416	ppb	09:06:19
2	Cu 324.752†	2300.3	-61.2	-0.3194	µg/L	-0.3194	ppb	09:06:19
2	Mn 257.610†	375.7	-20.7	-0.0360	µg/L	-0.0360	ppb	09:06:19
2	Mo 202.031†	12.1	0.7	0.0851	µg/L	0.0851	ppb	09:06:40
2	Ni 231.604†	-111.9	1.7	0.0649	µg/L	0.0649	ppb	09:06:40
2	P 214.914†	40.3	-14.2	-13.384	µg/L	-13.384	ppb	09:06:40
2	Pb 220.353†	175.5	4.2	0.8190	µg/L	0.8190	ppb	09:06:40

2	S 181.975 Axial†	52.5	0.0	0.1277	µg/L	0.1277	ppb	09:06:40
2	Sb 206.836†	64.0	0.1	0.0649	µg/L	0.0649	ppb	09:06:40
2	Se 196.026†	-35.6	14.8	28.217	µg/L	28.217	ppb	09:06:40
2	SiO2†	1220.7	27.7	-0.4095	µg/L	-0.4095	ppb	09:06:19
2	Si 251.611†	332.2	34.3	0.1158	µg/L	0.1158	ppb	09:06:40
2	Sn 189.927†	17.6	-5.5	-1.7042	µg/L	-1.7042	ppb	09:06:40
2	Ti 334.940†	-457.0	30.3	0.0804	µg/L	0.0804	ppb	09:06:19
2	Tl 190.801†	-36.7	-10.4	-5.2305	µg/L	-5.2305	ppb	09:06:40
2	U 367.007†	553.5	14.2	4.719	µg/L	4.719	ppb	09:06:19
2	V 292.402†	73.9	-2.2	-0.0192	µg/L	-0.0192	ppb	09:06:19
2	Zn 213.857†	735.6	22.2	0.3008	µg/L	0.3008	ppb	09:06:40
3	Sc RADIAL	6411.9	6411.9	99.7	%			09:05:27
3	Al 396.153Radial†	-186.2	-11.5	-12.085	µg/L	-12.085	ppb	09:05:27
3	Ca 317.933Radial†	53.5	6.7	6.4779	µg/L	6.4779	ppb	09:05:47
3	Fe 238.204 Radial†	36.0	-3.9	-4.2008	µg/L	-4.2008	ppb	09:05:47
3	K 766.490 Radial†	784.2	125.3	108.90	µg/L	108.90	ppb	09:05:27
3	Mg 279.077 IEC†	10.4	2.2	16.944	µg/L	16.944	ppb	09:05:47
3	Na 589.592 Radial†	-186.1	-3.7	-21.732	µg/L	-21.732	ppb	09:05:27
3	Sr 421.552†	-886.6	-3.6	-0.0527	µg/L	-0.0527	ppb	09:05:27
3	Sc 361.383	566526.4	566526.4	99.940	%			09:06:45
3	Y 371.029	520754.1	520754.1	99.994	%			09:06:45
3	Ag 328.068†	-343.4	-96.7	-0.6655	µg/L	-0.6655	ppb	09:06:45
3	As 188.979†	-7.7	4.7	3.8914	µg/L	3.8914	ppb	09:07:05
3	B 249.677†	274.6	48.8	1.5869	µg/L	1.5869	ppb	09:06:45
3	Ba 233.527†	-97.6	-43.5	-0.4612	µg/L	-0.4612	ppb	09:07:05
3	Be 313.107†	-5456.3	48.7	0.0248	µg/L	0.0248	ppb	09:06:45
3	Cd 226.502†	-142.3	16.1	0.2603	µg/L	0.2603	ppb	09:07:05
3	Co 228.616†	-98.0	17.3	0.5157	µg/L	0.5157	ppb	09:07:05
3	Cr 267.716†	109.7	28.8	0.6222	µg/L	0.6222	ppb	09:06:45
3	Cu 324.752†	2333.5	-19.9	-0.1095	µg/L	-0.1095	ppb	09:06:45
3	Mn 257.610†	419.9	24.9	0.0401	µg/L	0.0401	ppb	09:06:45
3	Mo 202.031†	11.9	0.6	0.0675	µg/L	0.0675	ppb	09:07:05
3	Ni 231.604†	-110.8	2.5	0.0919	µg/L	0.0919	ppb	09:07:05
3	P 214.914†	46.8	-7.6	-7.1394	µg/L	-7.1394	ppb	09:07:05
3	Pb 220.353†	167.6	-3.1	-0.6074	µg/L	-0.6074	ppb	09:07:05
3	S 181.975 Axial†	48.1	-4.1	-11.315	µg/L	-11.315	ppb	09:07:05
3	Sb 206.836†	59.5	-4.2	-2.2176	µg/L	-2.2176	ppb	09:07:05
3	Se 196.026†	-49.2	1.1	1.9939	µg/L	1.9939	ppb	09:07:05
3	SiO2†	1196.6	7.9	-1.5178	µg/L	-1.5178	ppb	09:06:45
3	Si 251.611†	310.5	13.8	-0.3679	µg/L	-0.3679	ppb	09:07:05
3	Sn 189.927†	27.3	4.2	1.2853	µg/L	1.2853	ppb	09:07:05
3	Ti 334.940†	-489.1	-3.4	-0.0061	µg/L	-0.0061	ppb	09:06:45
3	Tl 190.801†	-34.5	-8.3	-4.1583	µg/L	-4.1583	ppb	09:07:05
3	U 367.007†	515.9	-21.5	-7.127	µg/L	-7.127	ppb	09:06:45
3	V 292.402†	75.2	-0.6	-0.0094	µg/L	-0.0094	ppb	09:06:45
3	Zn 213.857†	734.9	24.1	0.3274	µg/L	0.3274	ppb	09:07:05

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	568561.1	100.30	%	0.364				0.36%
Sc RADIAL	6386.2	99.3	%	0.44				0.44%
Y 371.029	522774.6	100.38	%	0.381				0.38%
Ag 328.068†	-30.8	-0.2107	µg/L	0.46895	-0.2107	ppb	0.46895	222.53%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-7.5	-7.8573	µg/L	5.50520	-7.8573	ppb	5.50520	70.06%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.0	-1.6869	µg/L	5.36295	-1.6869	ppb	5.36295	317.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	52.8	1.7143	µg/L	0.11133	1.7143	ppb	0.11133	6.49%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-24.8	-0.2629	µg/L	0.17187	-0.2629	ppb	0.17187	65.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	129.3	0.0705	µg/L	0.03973	0.0705	ppb	0.03973	56.38%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.3	3.1812	µg/L	4.99134	3.1812	ppb	4.99134	156.90%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	17.3	0.2794	µg/L	0.01671	0.2794	ppb	0.01671	5.98%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	13.4	0.4003	µg/L	0.12299	0.4003	ppb	0.12299	30.72%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                16.2      0.3456 µg/L       0.69172      0.3456 ppb        0.69172 200.13%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -40.6     -0.2107 µg/L       0.10517     -0.2107 ppb        0.10517  49.92%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -1.9     -2.0020 µg/L       3.04944     -2.0020 ppb        3.04944 152.32%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         140.3      121.92 µg/L        47.085      121.92 ppb         47.085  38.62%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            3.9      30.364 µg/L       20.7339      30.364 ppb        20.7339  68.28%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               -21.7     -0.0369 µg/L       0.07753     -0.0369 ppb        0.07753 209.85%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                3.9      0.4593 µg/L       0.66346      0.4593 ppb        0.66346 144.45%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        15.8      93.627 µg/L      124.4584      93.627 ppb       124.4584 132.93%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                7.5      0.2827 µg/L       0.35402      0.2827 ppb        0.35402 125.24%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -10.5     -9.8934 µg/L       3.18654     -9.8934 ppb        3.18654  32.21%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                7.3      1.4397 µg/L       2.41797      1.4397 ppb        2.41797 167.95%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -3.0     -8.2310 µg/L       7.32122     -8.2310 ppb        7.32122  88.95%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                3.6      1.9185 µg/L       5.31126      1.9185 ppb        5.31126 276.85%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                5.5      10.481 µg/L       15.3638      10.481 ppb        15.3638 146.58%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     25.6      0.5659 µg/L       2.70666      0.5659 ppb        2.70666 478.28%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               20.1     -0.1502 µg/L       0.24547     -0.1502 ppb        0.24547 163.43%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                0.4      0.1150 µg/L       1.59688      0.1150 ppb        1.59688 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -5.3     -0.0785 µg/L       0.16980     -0.0785 ppb        0.16980 216.43%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               32.3      0.0856 µg/L       0.09437      0.0856 ppb        0.09437 110.25%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -5.3     -2.6407 µg/L       3.59731     -2.6407 ppb        3.59731 136.23%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                17.0       5.668 µg/L       13.2946       5.668 ppb        13.2946 234.57%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                24.1      0.2546 µg/L       0.46572      0.2546 ppb        0.46572 182.95%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               13.8      0.1860 µg/L       0.22222      0.1860 ppb        0.22222 119.45%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 3 **Autosampler Location: 149**
Sample ID: LR2 **Date Collected: 11/5/2013 9:07:13**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6653.0	6653.0	103	%			09:07:44
1	Al 396.153Radial†	-142.2	37.8	39.487	µg/L	39.487	ppb	09:07:44
1	Ca 317.933Radial†	54.4	5.7	5.5243	µg/L	5.5243	ppb	09:08:04
1	Fe 238.204 Radial†	45.4	3.9	4.1493	µg/L	4.1493	ppb	09:08:04
1	K 766.490 Radial†	810.2	121.9	105.92	µg/L	105.92	ppb	09:07:44
1	Mg 279.077 IEC†	4.3	-4.2	-32.620	µg/L	-32.620	ppb	09:08:04
1	Na 589.592 Radial†	-188.9	0.4	2.1307	µg/L	2.1307	ppb	09:07:44
1	Sr 421.552†	-874.7	40.2	0.5904	µg/L	0.5904	ppb	09:07:44
1	Sc 361.383	595333.7	595333.7	105.02	%			09:09:01
1	Y 371.029	537360.6	537360.6	103.18	%			09:09:01
1	Ag 328.068†	-253.9	5.1	0.0361	µg/L	0.0361	ppb	09:09:01
1	As 188.979†	-13.3	-0.3	-0.2380	µg/L	-0.2380	ppb	09:09:21
1	B 249.677†	263.0	24.5	0.7734	µg/L	0.7734	ppb	09:09:01
1	Ba 233.527†	-50.5	6.0	0.0640	µg/L	0.0640	ppb	09:09:21
1	Be 313.107†	-5511.4	260.4	0.1403	µg/L	0.1403	ppb	09:09:01
1	Cd 226.502†	-130.2	34.5	0.5569	µg/L	0.5569	ppb	09:09:21
1	Co 228.616†	-114.3	6.5	0.1937	µg/L	0.1937	ppb	09:09:21
1	Cr 267.716†	130.3	43.1	0.9224	µg/L	0.9224	ppb	09:09:01
1	Cu 324.752†	2404.6	-65.2	-0.3412	µg/L	-0.3412	ppb	09:09:01
1	Mn 257.610†	535.2	114.3	0.1902	µg/L	0.1902	ppb	09:09:01
1	Mo 202.031†	13.4	1.4	0.1696	µg/L	0.1696	ppb	09:09:21
1	Ni 231.604†	-114.2	4.6	0.1710	µg/L	0.1710	ppb	09:09:21
1	P 214.914†	54.6	-2.3	-2.1782	µg/L	-2.1782	ppb	09:09:21
1	Pb 220.353†	173.5	-5.6	-1.1180	µg/L	-1.1180	ppb	09:09:21
1	S 181.975 Axial†	52.6	-2.1	-5.8518	µg/L	-5.8518	ppb	09:09:21
1	Sb 206.836†	72.3	5.1	2.6799	µg/L	2.6799	ppb	09:09:21
1	Se 196.026†	-42.2	10.1	19.320	µg/L	19.320	ppb	09:09:21
1	SiO2†	655595.7	623060.1	79947	µg/L	79947	ppb	09:09:01
1	Si 251.611†	676080.6	643458.0	36810	µg/L	36810	ppb	09:09:01
1	Sn 189.927†	32.3	7.7	2.3513	µg/L	2.3513	ppb	09:09:21
1	Ti 334.940†	-345.8	156.7	0.4273	µg/L	0.4273	ppb	09:09:01
1	Tl 190.801†	-25.0	2.4	1.1981	µg/L	1.1981	ppb	09:09:21
1	U 367.007†	575.1	9.9	3.280	µg/L	3.280	ppb	09:09:01
1	V 292.402†	83.4	3.5	0.0422	µg/L	0.0422	ppb	09:09:01
1	Zn 213.857†	762.8	15.1	0.2053	µg/L	0.2053	ppb	09:09:21
2	Sc RADIAL	6690.8	6690.8	104	%			09:08:09
2	Al 396.153Radial†	-165.4	16.3	16.985	µg/L	16.985	ppb	09:08:09
2	Ca 317.933Radial†	55.8	6.7	6.4384	µg/L	6.4384	ppb	09:08:29
2	Fe 238.204 Radial†	43.9	2.2	2.3447	µg/L	2.3447	ppb	09:08:29
2	K 766.490 Radial†	772.4	81.1	70.495	µg/L	70.495	ppb	09:08:09
2	Mg 279.077 IEC†	12.4	3.6	28.337	µg/L	28.337	ppb	09:08:29
2	Na 589.592 Radial†	-177.5	12.3	72.937	µg/L	72.937	ppb	09:08:09
2	Sr 421.552†	-912.5	8.6	0.1268	µg/L	0.1268	ppb	09:08:09
2	Sc 361.383	590387.0	590387.0	104.15	%			09:09:26
2	Y 371.029	532670.5	532670.5	102.28	%			09:09:26
2	Ag 328.068†	-198.5	56.3	0.3921	µg/L	0.3921	ppb	09:09:26
2	As 188.979†	-10.7	2.1	1.7424	µg/L	1.7424	ppb	09:09:46
2	B 249.677†	279.9	42.8	1.4046	µg/L	1.4046	ppb	09:09:26
2	Ba 233.527†	-53.1	3.2	0.0345	µg/L	0.0345	ppb	09:09:46
2	Be 313.107†	-5464.0	261.9	0.1417	µg/L	0.1417	ppb	09:09:26
2	Cd 226.502†	-139.5	24.4	0.3951	µg/L	0.3951	ppb	09:09:46
2	Co 228.616†	-101.8	17.6	0.5271	µg/L	0.5271	ppb	09:09:46
2	Cr 267.716†	134.9	48.6	1.0403	µg/L	1.0403	ppb	09:09:26
2	Cu 324.752†	2483.3	29.6	0.1591	µg/L	0.1591	ppb	09:09:26
2	Mn 257.610†	522.3	106.2	0.1745	µg/L	0.1745	ppb	09:09:26
2	Mo 202.031†	19.9	7.8	0.9257	µg/L	0.9257	ppb	09:09:46
2	Ni 231.604†	-105.5	12.0	0.4489	µg/L	0.4489	ppb	09:09:46
2	P 214.914†	62.6	5.8	5.4365	µg/L	5.4365	ppb	09:09:46
2	Pb 220.353†	138.3	-38.0	-7.5122	µg/L	-7.5122	ppb	09:09:46

2	S 181.975 Axial†	44.5	-9.6	-26.150	µg/L	-26.150	ppb	09:09:46
2	Sb 206.836†	74.7	8.0	4.2298	µg/L	4.2298	ppb	09:09:46
2	Se 196.026†	-54.7	-2.2	-4.1411	µg/L	-4.1411	ppb	09:09:46
2	SiO2†	652777.2	625584.2	80271	µg/L	80271	ppb	09:09:26
2	Si 251.611†	673997.0	646851.2	37005	µg/L	37005	ppb	09:09:26
2	Sn 189.927†	22.7	-1.3	-0.3925	µg/L	-0.3925	ppb	09:09:46
2	Ti 334.940†	-327.4	171.6	0.4665	µg/L	0.4665	ppb	09:09:26
2	Tl 190.801†	-32.6	-5.1	-2.5687	µg/L	-2.5687	ppb	09:09:46
2	U 367.007†	579.2	18.5	6.139	µg/L	6.139	ppb	09:09:26
2	V 292.402†	153.7	71.7	0.7444	µg/L	0.7444	ppb	09:09:26
2	Zn 213.857†	761.4	19.8	0.2664	µg/L	0.2664	ppb	09:09:46
3	Sc RADIAL	6676.4	6676.4	104	%			09:08:34
3	Al 396.153Radial†	-177.9	3.9	3.9951	µg/L	3.9951	ppb	09:08:34
3	Ca 317.933Radial†	55.3	6.4	6.1242	µg/L	6.1242	ppb	09:08:54
3	Fe 238.204 Radial†	40.7	-0.8	-0.8774	µg/L	-0.8774	ppb	09:08:54
3	K 766.490 Radial†	671.3	-14.7	-12.798	µg/L	-12.798	ppb	09:08:34
3	Mg 279.077 IEC†	4.7	-3.8	-29.837	µg/L	-29.837	ppb	09:08:54
3	Na 589.592 Radial†	-173.1	16.2	95.944	µg/L	95.944	ppb	09:08:34
3	Sr 421.552†	-898.1	20.6	0.3029	µg/L	0.3029	ppb	09:08:34
3	Sc 361.383	594265.2	594265.2	104.83	%			09:09:52
3	Y 371.029	536424.2	536424.2	103.00	%			09:09:52
3	Ag 328.068†	-288.5	-28.3	-0.1940	µg/L	-0.1940	ppb	09:09:52
3	As 188.979†	-10.9	2.0	1.6382	µg/L	1.6382	ppb	09:10:12
3	B 249.677†	274.2	35.6	1.2050	µg/L	1.2050	ppb	09:09:52
3	Ba 233.527†	-63.1	-6.0	-0.0638	µg/L	-0.0638	ppb	09:10:12
3	Be 313.107†	-5579.2	186.3	0.0997	µg/L	0.0997	ppb	09:09:52
3	Cd 226.502†	-144.0	21.0	0.3399	µg/L	0.3399	ppb	09:10:12
3	Co 228.616†	-114.7	5.9	0.1770	µg/L	0.1770	ppb	09:10:12
3	Cr 267.716†	155.5	67.3	1.4471	µg/L	1.4471	ppb	09:09:52
3	Cu 324.752†	2548.6	76.3	0.4002	µg/L	0.4002	ppb	09:09:52
3	Mn 257.610†	536.5	116.5	0.1934	µg/L	0.1934	ppb	09:09:52
3	Mo 202.031†	18.8	6.6	0.7866	µg/L	0.7866	ppb	09:10:12
3	Ni 231.604†	-122.0	-3.1	-0.1166	µg/L	-0.1166	ppb	09:10:12
3	P 214.914†	39.3	-16.9	-15.993	µg/L	-15.993	ppb	09:10:12
3	Pb 220.353†	164.5	-13.9	-2.7421	µg/L	-2.7421	ppb	09:10:12
3	S 181.975 Axial†	56.7	1.9	5.0927	µg/L	5.0927	ppb	09:10:12
3	Sb 206.836†	65.5	-1.2	-0.6584	µg/L	-0.6584	ppb	09:10:12
3	Se 196.026†	-50.5	2.1	4.0629	µg/L	4.0629	ppb	09:10:12
3	SiO2†	657838.0	626321.4	80368	µg/L	80368	ppb	09:09:52
3	Si 251.611†	679246.1	647635.0	37051	µg/L	37051	ppb	09:09:52
3	Sn 189.927†	31.4	6.9	2.1226	µg/L	2.1226	ppb	09:10:12
3	Ti 334.940†	-321.2	179.6	0.4922	µg/L	0.4922	ppb	09:09:52
3	Tl 190.801†	-35.8	-7.9	-3.9773	µg/L	-3.9773	ppb	09:10:12
3	U 367.007†	557.7	-5.7	-1.902	µg/L	-1.902	ppb	09:09:52
3	V 292.402†	93.5	13.3	0.1462	µg/L	0.1462	ppb	09:09:52
3	Zn 213.857†	778.4	31.3	0.4271	µg/L	0.4271	ppb	09:10:12

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	593328.6	104.67	%	0.459				0.44%
Sc RADIAL	6673.4	104	%	0.3				0.29%
Y 371.029	535485.1	102.82	%	0.477				0.46%
Ag 328.068†	11.0	0.0781	µg/L	0.29529	0.0781	ppb	0.29529	378.15%
Al 396.153Radial†	19.3	20.156	µg/L	17.9573	20.156	ppb	17.9573	89.09%
As 188.979†	1.3	1.0476	µg/L	1.11450	1.0476	ppb	1.11450	106.39%
B 249.677†	34.3	1.1277	µg/L	0.32263	1.1277	ppb	0.32263	28.61%
Ba 233.527†	1.1	0.0116	µg/L	0.06688	0.0116	ppb	0.06688	578.69%
Be 313.107†	236.2	0.1272	µg/L	0.02386	0.1272	ppb	0.02386	18.76%
Ca 317.933Radial†	6.3	6.0290	µg/L	0.46444	6.0290	ppb	0.46444	7.70%
Cd 226.502†	26.6	0.4306	µg/L	0.11279	0.4306	ppb	0.11279	26.19%
Co 228.616†	10.0	0.2992	µg/L	0.19748	0.2992	ppb	0.19748	65.99%
Cr 267.716†	53.0	1.1366	µg/L	0.27532	1.1366	ppb	0.27532	24.22%
Cu 324.752†	13.5	0.0727	µg/L	0.37818	0.0727	ppb	0.37818	520.28%
Fe 238.204 Radial†	1.7	1.8722	µg/L	2.54642	1.8722	ppb	2.54642	136.01%
K 766.490 Radial†	62.8	54.538	µg/L	60.9449	54.538	ppb	60.9449	111.75%
Mg 279.077 IEC†	-1.4	-11.373	µg/L	34.4179	-11.373	ppb	34.4179	302.62%
Mn 257.610†	112.3	0.1860	µg/L	0.01009	0.1860	ppb	0.01009	5.43%
Mo 202.031†	5.3	0.6273	µg/L	0.40244	0.6273	ppb	0.40244	64.16%
Na 589.592 Radial†	9.6	57.004	µg/L	48.8942	57.004	ppb	48.8942	85.77%

Ni 231.604†	4.5	0.1678	µg/L	0.28277	0.1678	ppb	0.28277	168.52%
P 214.914†	-4.5	-4.2447	µg/L	10.86299	-4.2447	ppb	10.86299	255.92%
Pb 220.353†	-19.2	-3.7908	µg/L	3.32359	-3.7908	ppb	3.32359	87.68%
S 181.975 Axial†	-3.3	-8.9699	µg/L	15.85325	-8.9699	ppb	15.85325	176.74%
Sb 206.836†	4.0	2.0838	µg/L	2.49802	2.0838	ppb	2.49802	119.88%
Se 196.026†	3.4	6.4138	µg/L	11.90576	6.4138	ppb	11.90576	185.63%
SiO2†	624988.5	80195	µg/L	220.7	80195	ppb	220.7	0.28%
Si 251.611†	645981.4	36955	µg/L	127.5	36955	ppb	127.5	0.35%
Sn 189.927†	4.4	1.3605	µg/L	1.52243	1.3605	ppb	1.52243	111.90%
Sr 421.552†	23.1	0.3401	µg/L	0.23402	0.3401	ppb	0.23402	68.82%
Ti 334.940†	169.3	0.4620	µg/L	0.03268	0.4620	ppb	0.03268	7.07%
Tl 190.801†	-3.6	-1.7826	µg/L	2.67573	-1.7826	ppb	2.67573	150.10%
U 367.007†	7.6	2.506	µg/L	4.0761	2.506	ppb	4.0761	162.66%
V 292.402†	29.5	0.3109	µg/L	0.37897	0.3109	ppb	0.37897	121.88%
Zn 213.857†	22.1	0.2996	µg/L	0.11457	0.2996	ppb	0.11457	38.24%

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Sequence No.: 4 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 9:10:20**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6515.4	6515.4	101	%			09:11:11
1	Al 396.153Radial†	4694.3	4811.1	4983.2	µg/L	4983.2	ppb	09:10:51
1	Ca 317.933Radial†	5365.5	5251.6	5053.6	µg/L	5053.6	ppb	09:11:11
1	Fe 238.204 Radial†	4860.3	4759.7	5120.8	µg/L	5120.8	ppb	09:11:11
1	K 766.490 Radial†	6595.6	5851.7	5076.6	µg/L	5076.6	ppb	09:10:51
1	Mg 279.077 IEC†	675.8	659.1	5174.5	µg/L	5174.5	ppb	09:11:11
1	Na 589.592 Radial†	1501.0	1665.4	9840.8	µg/L	9840.8	ppb	09:10:51
1	Sr 421.552†	33324.3	33794.8	496.49	µg/L	496.49	ppb	09:10:51
1	Sc 361.383	587117.0	587117.0	103.57	%			09:12:07
1	Y 371.029	523214.1	523214.1	100.47	%			09:12:07
1	Ag 328.068†	75695.2	73331.5	508.30	µg/L	508.30	ppb	09:12:13
1	As 188.979†	605.0	596.5	496.25	µg/L	496.25	ppb	09:12:33
1	B 249.677†	15489.8	14729.6	491.32	µg/L	491.32	ppb	09:12:13
1	Ba 233.527†	48724.2	47098.0	500.35	µg/L	500.35	ppb	09:12:13
1	Be 313.107†	959888.5	932292.6	499.13	µg/L	499.13	ppb	09:12:07
1	Cd 226.502†	31863.4	30922.9	499.82	µg/L	499.82	ppb	09:12:13
1	Co 228.616†	17300.6	16819.3	502.48	µg/L	502.48	ppb	09:12:13
1	Cr 267.716†	24171.2	23256.6	499.29	µg/L	499.29	ppb	09:12:13
1	Cu 324.752†	100675.2	94848.3	499.80	µg/L	499.80	ppb	09:12:13
1	Mn 257.610†	311107.6	299983.0	495.19	µg/L	495.19	ppb	09:12:13
1	Mo 202.031†	4398.5	4235.5	501.40	µg/L	501.40	ppb	09:12:33
1	Ni 231.604†	13791.6	13429.2	503.62	µg/L	503.62	ppb	09:12:13
1	P 214.914†	2789.8	2639.2	2481.0	µg/L	2481.0	ppb	09:12:33
1	Pb 220.353†	2807.0	2539.4	501.25	µg/L	501.25	ppb	09:12:33
1	S 181.975 Axial†	428.7	361.7	999.22	µg/L	999.22	ppb	09:12:33
1	Sb 206.836†	1039.9	940.3	493.44	µg/L	493.44	ppb	09:12:33
1	Se 196.026†	227.1	269.5	523.10	µg/L	523.10	ppb	09:12:33
1	SiO2†	44541.2	41815.7	5286.0	µg/L	5286.0	ppb	09:12:13
1	Si 251.611†	45761.5	43886.4	2451.0	µg/L	2451.0	ppb	09:12:13
1	Sn 189.927†	1705.1	1623.2	500.03	µg/L	500.03	ppb	09:12:33
1	Ti 334.940†	190526.0	184441.2	504.48	µg/L	504.48	ppb	09:12:13
1	Tl 190.801†	1003.0	994.6	500.38	µg/L	500.38	ppb	09:12:33
1	U 367.007†	2058.2	1449.5	456.4	µg/L	456.4	ppb	09:12:13
1	V 292.402†	50792.9	48965.3	503.00	µg/L	503.00	ppb	09:12:13
1	Zn 213.857†	38893.4	36840.8	496.77	µg/L	496.77	ppb	09:12:13
2	Sc RADIAL	6533.3	6533.3	102	%			09:11:36
2	Al 396.153Radial†	4727.4	4830.9	5003.8	µg/L	5003.8	ppb	09:11:16
2	Ca 317.933Radial†	5378.5	5249.9	5052.0	µg/L	5052.0	ppb	09:11:36
2	Fe 238.204 Radial†	4869.5	4755.5	5116.4	µg/L	5116.4	ppb	09:11:36
2	K 766.490 Radial†	6654.3	5891.7	5111.3	µg/L	5111.3	ppb	09:11:16
2	Mg 279.077 IEC†	677.4	658.8	5171.9	µg/L	5171.9	ppb	09:11:36
2	Na 589.592 Radial†	1498.6	1658.9	9802.6	µg/L	9802.6	ppb	09:11:16
2	Sr 421.552†	33656.5	34031.8	499.98	µg/L	499.98	ppb	09:11:16
2	Sc 361.383	585739.6	585739.6	103.33	%			09:12:38
2	Y 371.029	522532.4	522532.4	100.34	%			09:12:38
2	Ag 328.068†	76036.1	73833.3	511.77	µg/L	511.77	ppb	09:12:44
2	As 188.979†	611.8	604.5	502.88	µg/L	502.88	ppb	09:13:04
2	B 249.677†	15623.3	14894.0	496.81	µg/L	496.81	ppb	09:12:44
2	Ba 233.527†	48883.7	47363.0	503.17	µg/L	503.17	ppb	09:12:44
2	Be 313.107†	955696.6	930415.2	498.13	µg/L	498.13	ppb	09:12:38
2	Cd 226.502†	32014.4	31141.4	503.35	µg/L	503.35	ppb	09:12:44
2	Co 228.616†	17361.9	16917.9	505.42	µg/L	505.42	ppb	09:12:44
2	Cr 267.716†	24173.4	23313.6	500.50	µg/L	500.50	ppb	09:12:44
2	Cu 324.752†	101405.5	95783.7	504.73	µg/L	504.73	ppb	09:12:44
2	Mn 257.610†	312710.3	302240.4	498.91	µg/L	498.91	ppb	09:12:44
2	Mo 202.031†	4385.9	4233.3	501.14	µg/L	501.14	ppb	09:13:04
2	Ni 231.604†	13847.6	13514.7	506.82	µg/L	506.82	ppb	09:12:44
2	P 214.914†	2776.2	2632.4	2474.5	µg/L	2474.5	ppb	09:13:04
2	Pb 220.353†	2804.6	2543.4	502.04	µg/L	502.04	ppb	09:13:04

2	S 181.975 Axial†	424.5	358.6	990.64 µg/L	990.64 ppb	09:13:04
2	Sb 206.836†	1038.2	941.0	493.81 µg/L	493.81 ppb	09:13:04
2	Se 196.026†	220.1	263.4	511.43 µg/L	511.43 ppb	09:13:04
2	SiO2†	44715.1	42085.1	5319.9 µg/L	5319.9 ppb	09:12:44
2	Si 251.611†	45954.4	44177.0	2467.3 µg/L	2467.3 ppb	09:12:44
2	Sn 189.927†	1705.0	1627.0	501.18 µg/L	501.18 ppb	09:13:04
2	Ti 334.940†	191599.6	185912.8	508.50 µg/L	508.50 ppb	09:12:44
2	Tl 190.801†	1012.3	1005.9	506.06 µg/L	506.06 ppb	09:13:04
2	U 367.007†	2077.1	1472.5	464.1 µg/L	464.1 ppb	09:12:44
2	V 292.402†	51064.7	49343.7	506.83 µg/L	506.83 ppb	09:12:44
2	Zn 213.857†	39069.8	37099.9	500.27 µg/L	500.27 ppb	09:12:44
3	Sc RADIAL	6527.4	6527.4	101 %		09:12:01
3	Al 396.153Radial†	4679.9	4788.4	4959.3 µg/L	4959.3 ppb	09:11:41
3	Ca 317.933Radial†	5379.1	5255.4	5057.2 µg/L	5057.2 ppb	09:12:01
3	Fe 238.204 Radial†	4872.6	4763.0	5124.4 µg/L	5124.4 ppb	09:12:01
3	K 766.490 Radial†	6668.3	5911.4	5128.4 µg/L	5128.4 ppb	09:11:41
3	Mg 279.077 IEC†	686.5	668.4	5247.4 µg/L	5247.4 ppb	09:12:01
3	Na 589.592 Radial†	1509.5	1671.0	9874.1 µg/L	9874.1 ppb	09:11:41
3	Sr 421.552†	33556.0	33963.0	498.96 µg/L	498.96 ppb	09:11:41
3	Sc 361.383	581049.7	581049.7	102.50 %		09:13:09
3	Y 371.029	517815.3	517815.3	99.430 %		09:13:09
3	Ag 328.068†	75320.8	73729.4	511.04 µg/L	511.04 ppb	09:13:14
3	As 188.979†	597.9	595.7	495.59 µg/L	495.59 ppb	09:13:34
3	B 249.677†	15408.3	14806.3	493.87 µg/L	493.87 ppb	09:13:14
3	Ba 233.527†	48285.9	47161.6	501.03 µg/L	501.03 ppb	09:13:14
3	Be 313.107†	947589.1	929970.9	497.89 µg/L	497.89 ppb	09:13:09
3	Cd 226.502†	31542.2	30930.8	499.95 µg/L	499.95 ppb	09:13:14
3	Co 228.616†	17159.4	16856.0	503.57 µg/L	503.57 ppb	09:13:14
3	Cr 267.716†	24005.4	23338.6	501.04 µg/L	501.04 ppb	09:13:14
3	Cu 324.752†	100416.2	95610.7	503.82 µg/L	503.82 ppb	09:13:14
3	Mn 257.610†	309073.8	301135.3	497.09 µg/L	497.09 ppb	09:13:14
3	Mo 202.031†	4390.1	4271.7	505.68 µg/L	505.68 ppb	09:13:34
3	Ni 231.604†	13691.8	13470.9	505.18 µg/L	505.18 ppb	09:13:14
3	P 214.914†	2765.5	2643.6	2485.1 µg/L	2485.1 ppb	09:13:34
3	Pb 220.353†	2809.1	2569.8	507.28 µg/L	507.28 ppb	09:13:34
3	S 181.975 Axial†	420.8	358.2	989.86 µg/L	989.86 ppb	09:13:34
3	Sb 206.836†	1035.5	946.5	496.77 µg/L	496.77 ppb	09:13:34
3	Se 196.026†	231.2	275.9	535.25 µg/L	535.25 ppb	09:13:34
3	SiO2†	44098.9	41833.2	5287.3 µg/L	5287.3 ppb	09:13:14
3	Si 251.611†	45362.8	43958.8	2454.5 µg/L	2454.5 ppb	09:13:14
3	Sn 189.927†	1701.4	1636.8	504.19 µg/L	504.19 ppb	09:13:34
3	Ti 334.940†	189650.7	185508.1	507.40 µg/L	507.40 ppb	09:13:14
3	Tl 190.801†	1006.1	1007.8	506.98 µg/L	506.98 ppb	09:13:34
3	U 367.007†	2063.1	1475.1	464.9 µg/L	464.9 ppb	09:13:14
3	V 292.402†	50414.4	49108.1	504.50 µg/L	504.50 ppb	09:13:14
3	Zn 213.857†	38660.9	37006.1	499.01 µg/L	499.01 ppb	09:13:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	584635.4	103.13	%	0.561				0.54%
Sc RADIAL	6525.4	101	%	0.1				0.14%
Y 371.029	521187.3	100.08	%	0.565				0.56%
Ag 328.068†	73631.4	510.37	µg/L	1.830	510.37	ppb	1.830	0.36%
QC value within limits for Ag 328.068 Recovery = 102.07%								
Al 396.153Radial†	4810.2	4982.1	µg/L	22.28	4982.1	ppb	22.28	0.45%
QC value within limits for Al 396.153Radial Recovery = 99.64%								
As 188.979†	598.9	498.24	µg/L	4.032	498.24	ppb	4.032	0.81%
QC value within limits for As 188.979 Recovery = 99.65%								
B 249.677†	14810.0	494.00	µg/L	2.752	494.00	ppb	2.752	0.56%
QC value within limits for B 249.677 Recovery = 98.80%								
Ba 233.527†	47207.5	501.52	µg/L	1.471	501.52	ppb	1.471	0.29%
QC value within limits for Ba 233.527 Recovery = 100.30%								
Be 313.107†	930892.9	498.39	µg/L	0.658	498.39	ppb	0.658	0.13%
QC value within limits for Be 313.107 Recovery = 99.68%								
Ca 317.933Radial†	5252.3	5054.3	µg/L	2.66	5054.3	ppb	2.66	0.05%
QC value within limits for Ca 317.933Radial Recovery = 101.09%								
Cd 226.502†	30998.4	501.04	µg/L	2.005	501.04	ppb	2.005	0.40%
QC value within limits for Cd 226.502 Recovery = 100.21%								
Co 228.616†	16864.4	503.82	µg/L	1.486	503.82	ppb	1.486	0.29%

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   QC value within limits for Co 228.616  Recovery = 100.76%
Cr 267.716†            23302.9      500.28 µg/L         0.900      500.28 ppb          0.900   0.18%
   QC value within limits for Cr 267.716  Recovery = 100.06%
Cu 324.752†            95414.2      502.78 µg/L         2.623      502.78 ppb          2.623   0.52%
   QC value within limits for Cu 324.752  Recovery = 100.56%
Fe 238.204 Radial†      4759.4      5120.6 µg/L          3.99      5120.6 ppb           3.99   0.08%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.41%
K 766.490 Radial†       5884.9      5105.4 µg/L         26.43      5105.4 ppb          26.43   0.52%
   QC value within limits for K 766.490 Radial  Recovery = 102.11%
Mg 279.077 IEC†          662.1      5197.9 µg/L         42.84      5197.9 ppb          42.84   0.82%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.96%
Mn 257.610†           301119.6      497.06 µg/L         1.862      497.06 ppb          1.862   0.37%
   QC value within limits for Mn 257.610  Recovery = 99.41%
Mo 202.031†             4246.8      502.74 µg/L         2.551      502.74 ppb          2.551   0.51%
   QC value within limits for Mo 202.031  Recovery = 100.55%
Na 589.592 Radial†      1665.1      9839.2 µg/L         35.79      9839.2 ppb          35.79   0.36%
   QC value within limits for Na 589.592 Radial  Recovery = 98.39%
Ni 231.604†            13471.6      505.21 µg/L         1.604      505.21 ppb          1.604   0.32%
   QC value within limits for Ni 231.604  Recovery = 101.04%
P 214.914†              2638.4      2480.2 µg/L          5.33      2480.2 ppb           5.33   0.21%
   QC value within limits for P 214.914  Recovery = 99.21%
Pb 220.353†             2550.9      503.52 µg/L         3.275      503.52 ppb          3.275   0.65%
   QC value within limits for Pb 220.353  Recovery = 100.70%
S 181.975 Axial†         359.5      993.24 µg/L         5.195      993.24 ppb          5.195   0.52%
   QC value within limits for S 181.975 Axial  Recovery = 99.32%
Sb 206.836†              942.6      494.67 µg/L         1.828      494.67 ppb          1.828   0.37%
   QC value within limits for Sb 206.836  Recovery = 98.93%
Se 196.026†              269.6      523.26 µg/L        11.908      523.26 ppb         11.908   2.28%
   QC value within limits for Se 196.026  Recovery = 104.65%
SiO2†                  41911.3      5297.7 µg/L         19.21      5297.7 ppb          19.21   0.36%
   QC value within limits for SiO2  Recovery = 99.07%
Si 251.611†            44007.4      2457.6 µg/L          8.55      2457.6 ppb           8.55   0.35%
   QC value within limits for Si 251.611  Recovery = 98.30%
Sn 189.927†             1629.0      501.80 µg/L         2.152      501.80 ppb          2.152   0.43%
   QC value within limits for Sn 189.927  Recovery = 100.36%
Sr 421.552†            33929.9      498.48 µg/L         1.791      498.48 ppb          1.791   0.36%
   QC value within limits for Sr 421.552  Recovery = 99.70%
Ti 334.940†           185287.4      506.79 µg/L         2.078      506.79 ppb          2.078   0.41%
   QC value within limits for Ti 334.940  Recovery = 101.36%
Tl 190.801†             1002.8      504.47 µg/L         3.577      504.47 ppb          3.577   0.71%
   QC value within limits for Tl 190.801  Recovery = 100.89%
U 367.007†              1465.7       461.8 µg/L          4.69       461.8 ppb           4.69   1.01%
   QC value within limits for U 367.007  Recovery = 92.36%
V 292.402†             49139.0      504.78 µg/L         1.932      504.78 ppb          1.932   0.38%
   QC value within limits for V 292.402  Recovery = 100.96%
Zn 213.857†            36982.3      498.68 µg/L         1.771      498.68 ppb          1.771   0.36%
   QC value within limits for Zn 213.857  Recovery = 99.74%
All analyte(s) passed QC.
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Sequence No.: 5 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 9:13:42**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6395.5	6395.5	99.4	%			09:14:10
1	Al 396.153Radial†	-131.5	43.0	44.907	µg/L	44.907	ppb	09:14:10
1	Ca 317.933Radial†	50.1	3.5	3.3681	µg/L	3.3681	ppb	09:14:30
1	Fe 238.204 Radial†	41.4	1.6	1.7229	µg/L	1.7229	ppb	09:14:30
1	K 766.490 Radial†	802.9	146.1	126.92	µg/L	126.92	ppb	09:14:10
1	Mg 279.077 IEC†	8.8	0.5	4.1595	µg/L	4.1595	ppb	09:14:30
1	Na 589.592 Radial†	-166.1	15.9	94.116	µg/L	94.116	ppb	09:14:10
1	Sr 421.552†	-903.1	-22.4	-0.3291	µg/L	-0.3291	ppb	09:14:10
1	Sc 361.383	564764.2	564764.2	99.629	%			09:15:27
1	Y 371.029	517802.5	517802.5	99.427	%			09:15:27
1	Ag 328.068†	-215.6	30.5	0.2121	µg/L	0.2121	ppb	09:15:27
1	As 188.979†	-10.4	2.0	1.6451	µg/L	1.6451	ppb	09:15:47
1	B 249.677†	295.2	70.4	2.3018	µg/L	2.3018	ppb	09:15:27
1	Ba 233.527†	-50.7	3.3	0.0350	µg/L	0.0350	ppb	09:15:47
1	Be 313.107†	-5309.4	179.1	0.0962	µg/L	0.0962	ppb	09:15:27
1	Cd 226.502†	-143.0	14.9	0.2402	µg/L	0.2402	ppb	09:15:47
1	Co 228.616†	-101.6	13.4	0.4022	µg/L	0.4022	ppb	09:15:47
1	Cr 267.716†	48.6	-32.2	-0.6935	µg/L	-0.6935	ppb	09:15:27
1	Cu 324.752†	2476.0	130.4	0.6877	µg/L	0.6877	ppb	09:15:27
1	Mn 257.610†	409.5	15.7	0.0259	µg/L	0.0259	ppb	09:15:27
1	Mo 202.031†	19.6	8.3	0.9878	µg/L	0.9878	ppb	09:15:47
1	Ni 231.604†	-109.1	3.8	0.1418	µg/L	0.1418	ppb	09:15:47
1	P 214.914†	43.0	-11.2	-10.600	µg/L	-10.600	ppb	09:15:47
1	Pb 220.353†	196.8	26.7	5.2566	µg/L	5.2566	ppb	09:15:47
1	S 181.975 Axial†	50.7	-1.4	-3.8487	µg/L	-3.8487	ppb	09:15:47
1	Sb 206.836†	67.0	3.5	1.8860	µg/L	1.8860	ppb	09:15:47
1	Se 196.026†	-57.5	-7.4	-14.122	µg/L	-14.122	ppb	09:15:47
1	SiO2†	1270.3	85.6	8.0815	µg/L	8.0815	ppb	09:15:27
1	Si 251.611†	320.2	24.5	0.0431	µg/L	0.0431	ppb	09:15:47
1	Sn 189.927†	26.7	3.7	1.1261	µg/L	1.1261	ppb	09:15:47
1	Ti 334.940†	-535.1	-51.2	-0.1409	µg/L	-0.1409	ppb	09:15:27
1	Tl 190.801†	-35.7	-9.6	-4.8108	µg/L	-4.8108	ppb	09:15:47
1	U 367.007†	543.3	7.6	2.532	µg/L	2.532	ppb	09:15:27
1	V 292.402†	108.0	32.6	0.3413	µg/L	0.3413	ppb	09:15:27
1	Zn 213.857†	715.0	6.4	0.0851	µg/L	0.0851	ppb	09:15:47
2	Sc RADIAL	6434.3	6434.3	100	%			09:14:35
2	Al 396.153Radial†	-195.8	-20.5	-21.467	µg/L	-21.467	ppb	09:14:35
2	Ca 317.933Radial†	46.8	-0.1	-0.0795	µg/L	-0.0795	ppb	09:14:55
2	Fe 238.204 Radial†	37.5	-2.6	-2.7577	µg/L	-2.7577	ppb	09:14:55
2	K 766.490 Radial†	763.6	101.9	88.648	µg/L	88.648	ppb	09:14:35
2	Mg 279.077 IEC†	5.4	-3.0	-23.222	µg/L	-23.222	ppb	09:14:55
2	Na 589.592 Radial†	-194.7	-11.7	-68.933	µg/L	-68.933	ppb	09:14:35
2	Sr 421.552†	-903.5	-17.3	-0.2545	µg/L	-0.2545	ppb	09:14:35
2	Sc 361.383	563831.4	563831.4	99.464	%			09:15:52
2	Y 371.029	517364.1	517364.1	99.343	%			09:15:52
2	Ag 328.068†	-232.5	13.1	0.0879	µg/L	0.0879	ppb	09:15:52
2	As 188.979†	-8.6	3.7	3.0990	µg/L	3.0990	ppb	09:16:12
2	B 249.677†	311.7	87.4	2.8919	µg/L	2.8919	ppb	09:15:52
2	Ba 233.527†	-50.4	3.5	0.0370	µg/L	0.0370	ppb	09:16:12
2	Be 313.107†	-5153.8	326.7	0.1724	µg/L	0.1724	ppb	09:15:52
2	Cd 226.502†	-134.4	23.3	0.3776	µg/L	0.3776	ppb	09:16:12
2	Co 228.616†	-86.3	28.6	0.8571	µg/L	0.8571	ppb	09:16:12
2	Cr 267.716†	79.2	-1.3	-0.0228	µg/L	-0.0228	ppb	09:15:52
2	Cu 324.752†	2338.6	-3.6	-0.0262	µg/L	-0.0262	ppb	09:15:52
2	Mn 257.610†	394.1	0.9	0.0021	µg/L	0.0021	ppb	09:15:52
2	Mo 202.031†	12.5	1.3	0.1504	µg/L	0.1504	ppb	09:16:12
2	Ni 231.604†	-103.2	9.5	0.3557	µg/L	0.3557	ppb	09:16:12
2	P 214.914†	47.6	-6.5	-6.1271	µg/L	-6.1271	ppb	09:16:12
2	Pb 220.353†	158.5	-11.5	-2.2451	µg/L	-2.2451	ppb	09:16:12

2	S 181.975 Axial†	44.1	-7.9	-21.669	µg/L	-21.669	ppb	09:16:12
2	Sb 206.836†	60.3	-3.1	-1.6196	µg/L	-1.6196	ppb	09:16:12
2	Se 196.026†	-41.0	9.1	17.237	µg/L	17.237	ppb	09:16:12
2	SiO2†	1216.5	33.6	2.1718	µg/L	2.1718	ppb	09:15:52
2	Si 251.611†	316.4	21.2	0.2739	µg/L	0.2739	ppb	09:16:12
2	Sn 189.927†	19.5	-3.5	-1.0670	µg/L	-1.0670	ppb	09:16:12
2	Ti 334.940†	-588.4	-105.6	-0.2833	µg/L	-0.2833	ppb	09:15:52
2	Tl 190.801†	-32.6	-6.6	-3.2993	µg/L	-3.2993	ppb	09:16:12
2	U 367.007†	499.8	-35.2	-11.70	µg/L	-11.70	ppb	09:15:52
2	V 292.402†	52.2	-23.4	-0.2451	µg/L	-0.2451	ppb	09:15:52
2	Zn 213.857†	705.6	-1.8	-0.0262	µg/L	-0.0262	ppb	09:16:12
3	Sc RADIAL	6368.3	6368.3	99.0	%			09:15:00
3	Al 396.153Radial†	-149.2	24.5	25.606	µg/L	25.606	ppb	09:15:00
3	Ca 317.933Radial†	44.6	-1.8	-1.7559	µg/L	-1.7559	ppb	09:15:20
3	Fe 238.204 Radial†	32.9	-6.8	-7.2942	µg/L	-7.2942	ppb	09:15:20
3	K 766.490 Radial†	736.8	82.7	71.945	µg/L	71.945	ppb	09:15:00
3	Mg 279.077 IEC†	7.2	-1.0	-7.9866	µg/L	-7.9866	ppb	09:15:20
3	Na 589.592 Radial†	-193.8	-12.7	-75.174	µg/L	-75.174	ppb	09:15:00
3	Sr 421.552†	-899.9	-23.1	-0.3398	µg/L	-0.3398	ppb	09:15:00
3	Sc 361.383	564200.8	564200.8	99.529	%			09:16:18
3	Y 371.029	517748.2	517748.2	99.417	%			09:16:18
3	Ag 328.068†	-183.5	62.4	0.4271	µg/L	0.4271	ppb	09:16:18
3	As 188.979†	-8.1	4.2	3.5110	µg/L	3.5110	ppb	09:16:38
3	B 249.677†	289.0	64.4	2.1273	µg/L	2.1273	ppb	09:16:18
3	Ba 233.527†	-71.6	-17.8	-0.1883	µg/L	-0.1883	ppb	09:16:38
3	Be 313.107†	-5395.9	86.9	0.0431	µg/L	0.0431	ppb	09:16:18
3	Cd 226.502†	-143.7	14.1	0.2286	µg/L	0.2286	ppb	09:16:38
3	Co 228.616†	-105.9	9.0	0.2708	µg/L	0.2708	ppb	09:16:38
3	Cr 267.716†	44.5	-36.3	-0.7704	µg/L	-0.7704	ppb	09:16:18
3	Cu 324.752†	2385.2	41.7	0.2091	µg/L	0.2091	ppb	09:16:18
3	Mn 257.610†	435.4	42.2	0.0691	µg/L	0.0691	ppb	09:16:18
3	Mo 202.031†	17.9	6.7	0.7916	µg/L	0.7916	ppb	09:16:38
3	Ni 231.604†	-97.9	15.0	0.5608	µg/L	0.5608	ppb	09:16:38
3	P 214.914†	44.3	-9.9	-9.3335	µg/L	-9.3335	ppb	09:16:38
3	Pb 220.353†	148.3	-21.8	-4.3125	µg/L	-4.3125	ppb	09:16:38
3	S 181.975 Axial†	55.2	3.2	8.7378	µg/L	8.7378	ppb	09:16:38
3	Sb 206.836†	69.3	5.9	3.1547	µg/L	3.1547	ppb	09:16:38
3	Se 196.026†	-49.9	0.2	0.2761	µg/L	0.2761	ppb	09:16:38
3	SiO2†	1232.2	48.6	4.4156	µg/L	4.4156	ppb	09:16:18
3	Si 251.611†	304.0	8.6	-0.2813	µg/L	-0.2813	ppb	09:16:38
3	Sn 189.927†	25.3	2.4	0.7252	µg/L	0.7252	ppb	09:16:38
3	Ti 334.940†	-640.1	-157.2	-0.4227	µg/L	-0.4227	ppb	09:16:18
3	Tl 190.801†	-31.5	-5.5	-2.7539	µg/L	-2.7539	ppb	09:16:38
3	U 367.007†	488.7	-46.7	-15.48	µg/L	-15.48	ppb	09:16:18
3	V 292.402†	79.2	3.7	0.0316	µg/L	0.0316	ppb	09:16:18
3	Zn 213.857†	719.4	11.6	0.1536	µg/L	0.1536	ppb	09:16:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	564265.5	99.541	%	0.0829				0.08%
Sc RADIAL	6399.4	99.5	%	0.52				0.52%
Y 371.029	517638.3	99.396	%	0.0459				0.05%
Ag 328.068†	35.4	0.2424	µg/L	0.17165	0.2424	ppb	0.17165	70.83%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	15.7	16.348	µg/L	34.1418	16.348	ppb	34.1418	208.84%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	3.3	2.7517	µg/L	0.98021	2.7517	ppb	0.98021	35.62%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	74.1	2.4403	µg/L	0.40068	2.4403	ppb	0.40068	16.42%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-3.7	-0.0388	µg/L	0.12950	-0.0388	ppb	0.12950	333.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	197.5	0.1039	µg/L	0.06498	0.1039	ppb	0.06498	62.53%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	0.5	0.5109	µg/L	2.61254	0.5109	ppb	2.61254	511.37%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	17.4	0.2821	µg/L	0.08287	0.2821	ppb	0.08287	29.37%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	17.0	0.5100	µg/L	0.30766	0.5100	ppb	0.30766	60.32%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -23.3     -0.4956 µg/L       0.41122     -0.4956 ppb        0.41122  82.98%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               56.2      0.2902 µg/L       0.36379      0.2902 ppb        0.36379 125.37%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -2.6     -2.7763 µg/L       4.50858     -2.7763 ppb        4.50858 162.39%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        110.2      95.837 µg/L       28.1835      95.837 ppb        28.1835  29.41%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.1     -9.0165 µg/L      13.71998     -9.0165 ppb       13.71998 152.17%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               19.6      0.0324 µg/L       0.03397      0.0324 ppb        0.03397 104.93%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                5.4      0.6433 µg/L       0.43799      0.6433 ppb        0.43799  68.09%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -2.8     -16.664 µg/L       95.9885     -16.664 ppb        95.9885 576.03%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                9.4      0.3528 µg/L       0.20950      0.3528 ppb        0.20950  59.38%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -9.2     -8.6869 µg/L       2.30550     -8.6869 ppb        2.30550  26.54%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -2.2     -0.4337 µg/L       5.03517     -0.4337 ppb        5.03517 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -2.0     -5.5934 µg/L      15.27842     -5.5934 ppb       15.27842 273.15%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                2.1      1.1404 µg/L       2.47296      1.1404 ppb        2.47296 216.86%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.6      1.1302 µg/L      15.69690      1.1302 ppb       15.69690 >999.9%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     55.9      4.8897 µg/L       2.98323      4.8897 ppb        2.98323  61.01%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               18.1      0.0119 µg/L       0.27890      0.0119 ppb        0.27890 >999.9%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                0.9      0.2615 µg/L       1.16779      0.2615 ppb        1.16779 446.64%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -21.0     -0.3078 µg/L       0.04644     -0.3078 ppb        0.04644  15.09%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -104.7     -0.2823 µg/L       0.14088     -0.2823 ppb        0.14088  49.91%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -7.2     -3.6213 µg/L       1.06560     -3.6213 ppb        1.06560  29.43%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -24.7      -8.217 µg/L        9.4994      -8.217 ppb         9.4994 115.60%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 4.3      0.0426 µg/L       0.29335      0.0426 ppb        0.29335 688.83%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                5.4      0.0709 µg/L       0.09075      0.0709 ppb        0.09075 128.06%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 4 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 9:32:37**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6410.9	6410.9	99.6	%			09:33:28
1	Al 396.153Radial†	4557.8	4749.7	4919.0	µg/L	4919.0	ppb	09:33:08
1	Ca 317.933Radial†	5217.6	5189.6	4994.0	µg/L	4994.0	ppb	09:33:28
1	Fe 238.204 Radial†	4792.5	4769.9	5131.8	µg/L	5131.8	ppb	09:33:28
1	K 766.490 Radial†	6484.6	5846.5	5071.9	µg/L	5071.9	ppb	09:33:08
1	Mg 279.077 IEC†	665.2	659.4	5176.5	µg/L	5176.5	ppb	09:33:28
1	Na 589.592 Radial†	1544.8	1733.5	10243	µg/L	10243	ppb	09:33:08
1	Sr 421.552†	33155.1	34161.7	501.88	µg/L	501.88	ppb	09:33:08
1	Sc 361.383	582456.0	582456.0	102.75	%			09:34:25
1	Y 371.029	519715.9	519715.9	99.795	%			09:34:25
1	Ag 328.068†	75382.7	73612.3	510.23	µg/L	510.23	ppb	09:34:30
1	As 188.979†	609.8	605.9	504.02	µg/L	504.02	ppb	09:34:50
1	B 249.677†	15328.5	14692.3	490.06	µg/L	490.06	ppb	09:34:30
1	Ba 233.527†	48275.3	47037.5	499.71	µg/L	499.71	ppb	09:34:30
1	Be 313.107†	950571.9	930641.7	498.25	µg/L	498.25	ppb	09:34:25
1	Cd 226.502†	31486.1	30801.9	497.86	µg/L	497.86	ppb	09:34:30
1	Co 228.616†	17133.2	16790.1	501.60	µg/L	501.60	ppb	09:34:30
1	Cr 267.716†	23938.4	23216.8	498.42	µg/L	498.42	ppb	09:34:30
1	Cu 324.752†	100418.4	95376.2	502.59	µg/L	502.59	ppb	09:34:30
1	Mn 257.610†	308889.0	300227.5	495.59	µg/L	495.59	ppb	09:34:30
1	Mo 202.031†	4382.2	4253.6	503.54	µg/L	503.54	ppb	09:34:50
1	Ni 231.604†	13635.2	13383.6	501.90	µg/L	501.90	ppb	09:34:30
1	P 214.914†	2770.5	2642.0	2483.6	µg/L	2483.6	ppb	09:34:50
1	Pb 220.353†	2806.6	2560.7	505.48	µg/L	505.48	ppb	09:34:50
1	S 181.975 Axial†	425.5	361.9	999.83	µg/L	999.83	ppb	09:34:50
1	Sb 206.836†	1029.5	938.3	492.42	µg/L	492.42	ppb	09:34:50
1	Se 196.026†	214.7	259.3	503.68	µg/L	503.68	ppb	09:34:50
1	SiO2†	44068.3	41699.5	5271.2	µg/L	5271.2	ppb	09:34:30
1	Si 251.611†	45235.4	43728.0	2442.0	µg/L	2442.0	ppb	09:34:30
1	Sn 189.927†	1696.8	1628.4	501.58	µg/L	501.58	ppb	09:34:50
1	Ti 334.940†	189569.7	184982.5	505.96	µg/L	505.96	ppb	09:34:30
1	Tl 190.801†	1001.5	1000.9	503.55	µg/L	503.55	ppb	09:34:50
1	U 367.007†	2071.3	1478.2	465.9	µg/L	465.9	ppb	09:34:30
1	V 292.402†	50439.8	49014.1	503.52	µg/L	503.52	ppb	09:34:30
1	Zn 213.857†	38512.2	36770.4	495.83	µg/L	495.83	ppb	09:34:30
2	Sc RADIAL	6393.1	6393.1	99.4	%			09:33:53
2	Al 396.153Radial†	4575.5	4780.2	4951.2	µg/L	4951.2	ppb	09:33:33
2	Ca 317.933Radial†	5197.6	5184.1	4988.6	µg/L	4988.6	ppb	09:33:53
2	Fe 238.204 Radial†	4790.8	4781.6	5144.3	µg/L	5144.3	ppb	09:33:53
2	K 766.490 Radial†	6435.1	5814.8	5044.5	µg/L	5044.5	ppb	09:33:33
2	Mg 279.077 IEC†	665.4	661.4	5192.5	µg/L	5192.5	ppb	09:33:53
2	Na 589.592 Radial†	1499.5	1692.2	9999.5	µg/L	9999.5	ppb	09:33:33
2	Sr 421.552†	33287.6	34387.7	505.20	µg/L	505.20	ppb	09:33:33
2	Sc 361.383	585978.6	585978.6	103.37	%			09:34:56
2	Y 371.029	523091.9	523091.9	100.44	%			09:34:56
2	Ag 328.068†	75317.4	73108.0	506.76	µg/L	506.76	ppb	09:35:01
2	As 188.979†	604.0	596.7	496.41	µg/L	496.41	ppb	09:35:21
2	B 249.677†	15277.7	14553.5	485.42	µg/L	485.42	ppb	09:35:01
2	Ba 233.527†	48189.6	46672.2	495.83	µg/L	495.83	ppb	09:35:01
2	Be 313.107†	942847.9	917608.1	491.28	µg/L	491.28	ppb	09:34:56
2	Cd 226.502†	31403.4	30537.7	493.59	µg/L	493.59	ppb	09:35:01
2	Co 228.616†	17110.8	16668.1	497.96	µg/L	497.96	ppb	09:35:01
2	Cr 267.716†	23928.5	23067.1	495.21	µg/L	495.21	ppb	09:35:01
2	Cu 324.752†	100539.7	94906.1	500.11	µg/L	500.11	ppb	09:35:01
2	Mn 257.610†	308387.1	297934.8	491.81	µg/L	491.81	ppb	09:35:01
2	Mo 202.031†	4364.1	4210.5	498.44	µg/L	498.44	ppb	09:35:21
2	Ni 231.604†	13668.9	13336.4	500.14	µg/L	500.14	ppb	09:35:01
2	P 214.914†	2776.3	2631.4	2473.6	µg/L	2473.6	ppb	09:35:21
2	Pb 220.353†	2771.8	2510.6	495.56	µg/L	495.56	ppb	09:35:21

2	S 181.975 Axial†	434.9	368.4	1017.6 µg/L	1017.6 ppb	09:35:21
2	Sb 206.836†	1033.1	935.7	491.06 µg/L	491.06 ppb	09:35:21
2	Se 196.026†	215.5	258.8	502.72 µg/L	502.72 ppb	09:35:21
2	SiO2†	43989.9	41365.9	5228.8 µg/L	5228.8 ppb	09:35:01
2	Si 251.611†	45066.6	43300.0	2417.8 µg/L	2417.8 ppb	09:35:01
2	Sn 189.927†	1687.9	1609.8	495.88 µg/L	495.88 ppb	09:35:21
2	Ti 334.940†	189444.9	183752.7	502.59 µg/L	502.59 ppb	09:35:01
2	Tl 190.801†	1008.4	1001.7	503.93 µg/L	503.93 ppb	09:35:21
2	U 367.007†	2085.7	1480.0	466.5 µg/L	466.5 ppb	09:35:01
2	V 292.402†	50531.1	48807.3	501.36 µg/L	501.36 ppb	09:35:01
2	Zn 213.857†	38414.0	36450.0	491.48 µg/L	491.48 ppb	09:35:01
3	Sc RADIAL	6386.4	6386.4	99.3 %		09:34:18
3	Al 396.153Radial†	4657.8	4868.0	5042.7 µg/L	5042.7 ppb	09:33:58
3	Ca 317.933Radial†	5225.7	5217.9	5021.1 µg/L	5021.1 ppb	09:34:18
3	Fe 238.204 Radial†	4800.4	4796.3	5160.2 µg/L	5160.2 ppb	09:34:18
3	K 766.490 Radial†	6501.6	5888.5	5108.5 µg/L	5108.5 ppb	09:33:58
3	Mg 279.077 IEC†	675.9	672.6	5280.8 µg/L	5280.8 ppb	09:34:18
3	Na 589.592 Radial†	1485.2	1679.3	9923.1 µg/L	9923.1 ppb	09:33:58
3	Sr 421.552†	33218.5	34352.9	504.69 µg/L	504.69 ppb	09:33:58
3	Sc 361.383	584833.9	584833.9	103.17 %		09:35:27
3	Y 371.029	520933.4	520933.4	100.03 %		09:35:27
3	Ag 328.068†	75744.7	73664.8	510.60 µg/L	510.60 ppb	09:35:32
3	As 188.979†	603.7	597.6	497.17 µg/L	497.17 ppb	09:35:52
3	B 249.677†	15470.4	14769.2	492.63 µg/L	492.63 ppb	09:35:32
3	Ba 233.527†	48425.0	46991.6	499.22 µg/L	499.22 ppb	09:35:32
3	Be 313.107†	952004.4	928268.8	496.98 µg/L	496.98 ppb	09:35:27
3	Cd 226.502†	31558.8	30747.8	496.98 µg/L	496.98 ppb	09:35:32
3	Co 228.616†	17170.1	16758.0	500.64 µg/L	500.64 ppb	09:35:32
3	Cr 267.716†	24091.9	23270.8	499.58 µg/L	499.58 ppb	09:35:32
3	Cu 324.752†	100970.4	95513.9	503.32 µg/L	503.32 ppb	09:35:32
3	Mn 257.610†	310080.5	300160.1	495.48 µg/L	495.48 ppb	09:35:32
3	Mo 202.031†	4387.8	4241.7	502.14 µg/L	502.14 ppb	09:35:52
3	Ni 231.604†	13778.9	13468.9	505.11 µg/L	505.11 ppb	09:35:32
3	P 214.914†	2753.6	2614.7	2457.8 µg/L	2457.8 ppb	09:35:52
3	Pb 220.353†	2793.7	2537.1	500.76 µg/L	500.76 ppb	09:35:52
3	S 181.975 Axial†	426.5	361.2	997.81 µg/L	997.81 ppb	09:35:52
3	Sb 206.836†	1038.7	943.0	494.89 µg/L	494.89 ppb	09:35:52
3	Se 196.026†	229.1	272.4	528.61 µg/L	528.61 ppb	09:35:52
3	SiO2†	44273.6	41724.2	5273.7 µg/L	5273.7 ppb	09:35:32
3	Si 251.611†	45395.3	43703.9	2440.2 µg/L	2440.2 ppb	09:35:32
3	Sn 189.927†	1692.2	1617.2	498.15 µg/L	498.15 ppb	09:35:52
3	Ti 334.940†	190099.7	184746.1	505.30 µg/L	505.30 ppb	09:35:32
3	Tl 190.801†	1006.1	1001.3	503.77 µg/L	503.77 ppb	09:35:52
3	U 367.007†	2111.5	1509.0	476.0 µg/L	476.0 ppb	09:35:32
3	V 292.402†	50662.9	49030.7	503.68 µg/L	503.68 ppb	09:35:32
3	Zn 213.857†	38788.2	36885.5	497.36 µg/L	497.36 ppb	09:35:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	584422.8	103.10	%	0.317				0.31%
Sc RADIAL	6396.8	99.4	%	0.20				0.20%
Y 371.029	521247.1	100.09	%	0.328				0.33%
Ag 328.068†	73461.7	509.20	µg/L	2.120	509.20	ppb	2.120	0.42%
QC value within limits for Ag 328.068 Recovery = 101.84%								
Al 396.153Radial†	4799.3	4971.0	µg/L	64.20	4971.0	ppb	64.20	1.29%
QC value within limits for Al 396.153Radial Recovery = 99.42%								
As 188.979†	600.0	499.20	µg/L	4.188	499.20	ppb	4.188	0.84%
QC value within limits for As 188.979 Recovery = 99.84%								
B 249.677†	14671.7	489.37	µg/L	3.656	489.37	ppb	3.656	0.75%
QC value within limits for B 249.677 Recovery = 97.87%								
Ba 233.527†	46900.5	498.26	µg/L	2.113	498.26	ppb	2.113	0.42%
QC value within limits for Ba 233.527 Recovery = 99.65%								
Be 313.107†	925506.2	495.50	µg/L	3.716	495.50	ppb	3.716	0.75%
QC value within limits for Be 313.107 Recovery = 99.10%								
Ca 317.933Radial†	5197.2	5001.2	µg/L	17.43	5001.2	ppb	17.43	0.35%
QC value within limits for Ca 317.933Radial Recovery = 100.02%								
Cd 226.502†	30695.8	496.14	µg/L	2.258	496.14	ppb	2.258	0.46%
QC value within limits for Cd 226.502 Recovery = 99.23%								
Co 228.616†	16738.7	500.07	µg/L	1.891	500.07	ppb	1.891	0.38%

```
   QC value within limits for Co 228.616  Recovery = 100.01%
Cr 267.716†            23184.9      497.74 µg/L         2.264      497.74 ppb          2.264   0.45%
   QC value within limits for Cr 267.716  Recovery = 99.55%
Cu 324.752†            95265.4      502.01 µg/L         1.680      502.01 ppb          1.680   0.33%
   QC value within limits for Cu 324.752  Recovery = 100.40%
Fe 238.204 Radial†      4782.6      5145.5 µg/L         14.21      5145.5 ppb          14.21   0.28%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.91%
K 766.490 Radial†       5850.0      5074.9 µg/L         32.12      5074.9 ppb          32.12   0.63%
   QC value within limits for K 766.490 Radial  Recovery = 101.50%
Mg 279.077 IEC†          664.5      5216.6 µg/L         56.15      5216.6 ppb          56.15   1.08%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.33%
Mn 257.610†           299440.8      494.29 µg/L         2.152      494.29 ppb          2.152   0.44%
   QC value within limits for Mn 257.610  Recovery = 98.86%
Mo 202.031†             4235.2      501.37 µg/L         2.636      501.37 ppb          2.636   0.53%
   QC value within limits for Mo 202.031  Recovery = 100.27%
Na 589.592 Radial†      1701.7       10055 µg/L         167.3       10055 ppb          167.3   1.66%
   QC value within limits for Na 589.592 Radial  Recovery = 100.55%
Ni 231.604†            13396.3      502.38 µg/L         2.520      502.38 ppb          2.520   0.50%
   QC value within limits for Ni 231.604  Recovery = 100.48%
P 214.914†              2629.4      2471.7 µg/L         13.00      2471.7 ppb          13.00   0.53%
   QC value within limits for P 214.914  Recovery = 98.87%
Pb 220.353†             2536.1      500.60 µg/L         4.963      500.60 ppb          4.963   0.99%
   QC value within limits for Pb 220.353  Recovery = 100.12%
S 181.975 Axial†         363.8      1005.1 µg/L         10.90      1005.1 ppb          10.90   1.08%
   QC value within limits for S 181.975 Axial  Recovery = 100.51%
Sb 206.836†              939.0      492.79 µg/L         1.940      492.79 ppb          1.940   0.39%
   QC value within limits for Sb 206.836  Recovery = 98.56%
Se 196.026†              263.5      511.67 µg/L        14.681      511.67 ppb         14.681   2.87%
   QC value within limits for Se 196.026  Recovery = 102.33%
SiO2†                  41596.5      5257.9 µg/L         25.22      5257.9 ppb          25.22   0.48%
   QC value within limits for SiO2  Recovery = 98.33%
Si 251.611†            43577.3      2433.3 µg/L         13.45      2433.3 ppb          13.45   0.55%
   QC value within limits for Si 251.611  Recovery = 97.33%
Sn 189.927†             1618.4      498.54 µg/L         2.872      498.54 ppb          2.872   0.58%
   QC value within limits for Sn 189.927  Recovery = 99.71%
Sr 421.552†            34300.8      503.93 µg/L         1.788      503.93 ppb          1.788   0.35%
   QC value within limits for Sr 421.552  Recovery = 100.79%
Ti 334.940†           184493.8      504.62 µg/L         1.785      504.62 ppb          1.785   0.35%
   QC value within limits for Ti 334.940  Recovery = 100.92%
Tl 190.801†             1001.3      503.75 µg/L         0.192      503.75 ppb          0.192   0.04%
   QC value within limits for Tl 190.801  Recovery = 100.75%
U 367.007†              1489.0       469.5 µg/L          5.67       469.5 ppb           5.67   1.21%
   QC value within limits for U 367.007  Recovery = 93.89%
V 292.402†             48950.7      502.86 µg/L         1.296      502.86 ppb          1.296   0.26%
   QC value within limits for V 292.402  Recovery = 100.57%
Zn 213.857†            36702.0      494.89 µg/L         3.050      494.89 ppb          3.050   0.62%
   QC value within limits for Zn 213.857  Recovery = 98.98%
All analyte(s) passed QC.
```

Sequence No.: 5 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/5/2013 9:36:00**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6489.2	6489.2	101	%			09:36:30
1	Al 396.153Radial†	70.2	244.9	255.36	µg/L	255.36	ppb	09:36:30
1	Ca 317.933Radial†	267.5	218.3	210.04	µg/L	210.04	ppb	09:36:50
1	Fe 238.204 Radial†	141.6	100.4	107.98	µg/L	107.98	ppb	09:36:50
1	K 766.490 Radial†	829.2	160.5	139.25	µg/L	139.25	ppb	09:36:30
1	Mg 279.077 IEC†	57.4	48.6	381.23	µg/L	381.23	ppb	09:36:50
1	Na 589.592 Radial†	-116.8	67.3	397.40	µg/L	397.40	ppb	09:36:30
1	Sr 421.552†	-523.0	367.6	5.3991	µg/L	5.3991	ppb	09:36:30
1	Sc 361.383	570644.9	570644.9	100.67	%			09:37:47
1	Y 371.029	521476.8	521476.8	100.13	%			09:37:47
1	Ag 328.068†	526.7	770.0	5.3530	µg/L	5.3530	ppb	09:37:47
1	As 188.979†	22.3	34.5	28.663	µg/L	28.663	ppb	09:38:07
1	B 249.677†	1726.0	1488.6	49.938	µg/L	49.938	ppb	09:37:47
1	Ba 233.527†	407.8	459.3	4.8781	µg/L	4.8781	ppb	09:38:07
1	Be 313.107†	4260.2	9740.3	5.2255	µg/L	5.2255	ppb	09:37:47
1	Cd 226.502†	160.0	317.3	5.1248	µg/L	5.1248	ppb	09:38:07
1	Co 228.616†	77.1	191.9	5.7420	µg/L	5.7420	ppb	09:38:07
1	Cr 267.716†	447.3	363.4	7.7826	µg/L	7.7826	ppb	09:37:47
1	Cu 324.752†	4297.9	1914.7	10.111	µg/L	10.111	ppb	09:37:47
1	Mn 257.610†	7338.9	6895.1	11.371	µg/L	11.371	ppb	09:37:47
1	Mo 202.031†	105.3	93.3	11.040	µg/L	11.040	ppb	09:38:07
1	Ni 231.604†	113.3	225.9	8.4731	µg/L	8.4731	ppb	09:38:07
1	P 214.914†	225.3	169.4	159.93	µg/L	159.93	ppb	09:38:07
1	Pb 220.353†	228.4	56.1	10.990	µg/L	10.990	ppb	09:38:07
1	S 181.975 Axial†	84.8	31.9	87.659	µg/L	87.659	ppb	09:38:07
1	Sb 206.836†	76.2	12.0	6.3164	µg/L	6.3164	ppb	09:38:07
1	Se 196.026†	-29.8	20.7	39.856	µg/L	39.856	ppb	09:38:07
1	SiO2†	2889.3	1680.7	213.46	µg/L	213.46	ppb	09:37:47
1	Si 251.611†	1910.6	1601.0	89.969	µg/L	89.969	ppb	09:38:07
1	Sn 189.927†	55.7	32.2	9.9273	µg/L	9.9273	ppb	09:38:07
1	Ti 334.940†	1351.0	1828.0	4.9827	µg/L	4.9827	ppb	09:37:47
1	Tl 190.801†	8.0	34.2	17.170	µg/L	17.170	ppb	09:38:07
1	U 367.007†	682.4	140.2	46.06	µg/L	46.06	ppb	09:37:47
1	V 292.402†	584.1	504.3	5.2891	µg/L	5.2891	ppb	09:37:47
1	Zn 213.857†	1453.8	733.0	9.8862	µg/L	9.8862	ppb	09:38:07
2	Sc RADIAL	6569.6	6569.6	102	%			09:36:55
2	Al 396.153Radial†	56.5	230.6	240.48	µg/L	240.48	ppb	09:36:55
2	Ca 317.933Radial†	265.8	213.4	205.35	µg/L	205.35	ppb	09:37:16
2	Fe 238.204 Radial†	145.0	102.0	109.65	µg/L	109.65	ppb	09:37:16
2	K 766.490 Radial†	928.2	247.5	214.81	µg/L	214.81	ppb	09:36:55
2	Mg 279.077 IEC†	49.5	40.2	315.62	µg/L	315.62	ppb	09:37:16
2	Na 589.592 Radial†	-118.4	67.1	396.31	µg/L	396.31	ppb	09:36:55
2	Sr 421.552†	-513.6	383.1	5.6281	µg/L	5.6281	ppb	09:36:55
2	Sc 361.383	561869.0	561869.0	99.118	%			09:38:13
2	Y 371.029	513794.9	513794.9	98.658	%			09:38:13
2	Ag 328.068†	469.2	720.3	5.0149	µg/L	5.0149	ppb	09:38:13
2	As 188.979†	21.9	34.5	28.616	µg/L	28.616	ppb	09:38:33
2	B 249.677†	1740.1	1529.6	51.279	µg/L	51.279	ppb	09:38:13
2	Ba 233.527†	398.4	456.1	4.8448	µg/L	4.8448	ppb	09:38:33
2	Be 313.107†	4152.2	9697.4	5.2042	µg/L	5.2042	ppb	09:38:13
2	Cd 226.502†	182.9	343.0	5.5394	µg/L	5.5394	ppb	09:38:33
2	Co 228.616†	59.4	175.3	5.2433	µg/L	5.2433	ppb	09:38:33
2	Cr 267.716†	463.1	386.2	8.2671	µg/L	8.2671	ppb	09:38:13
2	Cu 324.752†	4296.5	1979.9	10.460	µg/L	10.460	ppb	09:38:13
2	Mn 257.610†	7231.8	6900.9	11.383	µg/L	11.383	ppb	09:38:13
2	Mo 202.031†	94.3	83.8	9.9229	µg/L	9.9229	ppb	09:38:33
2	Ni 231.604†	101.0	215.2	8.0713	µg/L	8.0713	ppb	09:38:33
2	P 214.914†	211.8	159.3	150.35	µg/L	150.35	ppb	09:38:33
2	Pb 220.353†	223.1	54.3	10.626	µg/L	10.626	ppb	09:38:33

2	S 181.975 Axial†	85.7	34.2	93.827 µg/L	93.827 ppb		09:38:33
2	Sb 206.836†	84.1	21.1	11.119 µg/L	11.119 ppb		09:38:33
2	Se 196.026†	-28.2	21.9	42.073 µg/L	42.073 ppb		09:38:33
2	SiO2†	2824.2	1659.9	209.14 µg/L	209.14 ppb		09:38:13
2	Si 251.611†	1942.4	1662.8	92.722 µg/L	92.722 ppb		09:38:33
2	Sn 189.927†	57.0	34.4	10.595 µg/L	10.595 ppb		09:38:33
2	Ti 334.940†	1353.2	1851.2	5.0426 µg/L	5.0426 ppb		09:38:13
2	Tl 190.801†	2.4	28.6	14.419 µg/L	14.419 ppb		09:38:33
2	U 367.007†	695.2	163.7	53.89 µg/L	53.89 ppb		09:38:13
2	V 292.402†	625.3	555.0	5.7974 µg/L	5.7974 ppb		09:38:13
2	Zn 213.857†	1443.8	745.5	10.059 µg/L	10.059 ppb		09:38:33
3	Sc RADIAL	6491.6	6491.6	101 %			09:37:21
3	Al 396.153Radial†	29.3	204.4	212.94 µg/L	212.94 ppb		09:37:21
3	Ca 317.933Radial†	263.6	214.3	206.20 µg/L	206.20 ppb		09:37:41
3	Fe 238.204 Radial†	144.2	102.9	110.62 µg/L	110.62 ppb		09:37:41
3	K 766.490 Radial†	850.6	181.5	157.53 µg/L	157.53 ppb		09:37:21
3	Mg 279.077 IEC†	53.6	44.8	351.75 µg/L	351.75 ppb		09:37:41
3	Na 589.592 Radial†	-143.7	40.6	240.03 µg/L	240.03 ppb		09:37:21
3	Sr 421.552†	-512.3	378.4	5.5583 µg/L	5.5583 ppb		09:37:21
3	Sc 361.383	563488.8	563488.8	99.404 %			09:38:38
3	Y 371.029	515384.0	515384.0	98.963 %			09:38:38
3	Ag 328.068†	573.3	823.6	5.7209 µg/L	5.7209 ppb		09:38:38
3	As 188.979†	31.9	44.5	36.918 µg/L	36.918 ppb		09:38:58
3	B 249.677†	1713.9	1498.2	50.250 µg/L	50.250 ppb		09:38:38
3	Ba 233.527†	399.8	456.3	4.8471 µg/L	4.8471 ppb		09:38:58
3	Be 313.107†	4044.8	9577.4	5.1371 µg/L	5.1371 ppb		09:38:38
3	Cd 226.502†	169.1	328.5	5.3048 µg/L	5.3048 ppb		09:38:58
3	Co 228.616†	73.0	188.8	5.6489 µg/L	5.6489 ppb		09:38:58
3	Cr 267.716†	446.5	368.2	7.8901 µg/L	7.8901 ppb		09:38:38
3	Cu 324.752†	4369.5	2040.9	10.772 µg/L	10.772 ppb		09:38:38
3	Mn 257.610†	7213.8	6861.8	11.318 µg/L	11.318 ppb		09:38:38
3	Mo 202.031†	101.9	91.2	10.799 µg/L	10.799 ppb		09:38:58
3	Ni 231.604†	93.1	206.9	7.7608 µg/L	7.7608 ppb		09:38:58
3	P 214.914†	194.0	140.8	132.86 µg/L	132.86 ppb		09:38:58
3	Pb 220.353†	207.5	37.9	7.4231 µg/L	7.4231 ppb		09:38:58
3	S 181.975 Axial†	94.1	42.4	116.26 µg/L	116.26 ppb		09:38:58
3	Sb 206.836†	88.1	24.9	13.154 µg/L	13.154 ppb		09:38:58
3	Se 196.026†	-30.8	19.3	37.200 µg/L	37.200 ppb		09:38:58
3	SiO2†	2794.4	1621.7	205.42 µg/L	205.42 ppb		09:38:38
3	Si 251.611†	1918.0	1632.6	91.587 µg/L	91.587 ppb		09:38:58
3	Sn 189.927†	60.4	37.7	11.611 µg/L	11.611 ppb		09:38:58
3	Ti 334.940†	1253.0	1746.4	4.7623 µg/L	4.7623 ppb		09:38:38
3	Tl 190.801†	9.1	35.4	17.774 µg/L	17.774 ppb		09:38:58
3	U 367.007†	656.0	122.3	40.08 µg/L	40.08 ppb		09:38:38
3	V 292.402†	570.8	498.3	5.2212 µg/L	5.2212 ppb		09:38:38
3	Zn 213.857†	1452.7	750.2	10.124 µg/L	10.124 ppb		09:38:58

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	565334.2	99.729	%	0.8238				0.83%
Sc RADIAL	6516.8	101	%	0.7				0.70%
Y 371.029	516885.2	99.251	%	0.7786				0.78%
Ag 328.068†	771.3	5.3630	µg/L	0.35309	5.3630	ppb	0.35309	6.58%
QC value within limits for Ag 328.068 Recovery = 107.26%								
Al 396.153Radial†	226.7	236.26	µg/L	21.522	236.26	ppb	21.522	9.11%
QC value within limits for Al 396.153Radial Recovery = 118.13%								
As 188.979†	37.8	31.399	µg/L	4.7796	31.399	ppb	4.7796	15.22%
QC value within limits for As 188.979 Recovery = 104.66%								
B 249.677†	1505.5	50.489	µg/L	0.7021	50.489	ppb	0.7021	1.39%
QC value within limits for B 249.677 Recovery = 100.98%								
Ba 233.527†	457.2	4.8567	µg/L	0.01862	4.8567	ppb	0.01862	0.38%
QC value within limits for Ba 233.527 Recovery = 97.13%								
Be 313.107†	9671.7	5.1890	µg/L	0.04615	5.1890	ppb	0.04615	0.89%
QC value within limits for Be 313.107 Recovery = 103.78%								
Ca 317.933Radial†	215.3	207.20	µg/L	2.498	207.20	ppb	2.498	1.21%
QC value within limits for Ca 317.933Radial Recovery = 103.60%								
Cd 226.502†	329.6	5.3230	µg/L	0.20792	5.3230	ppb	0.20792	3.91%
QC value within limits for Cd 226.502 Recovery = 106.46%								
Co 228.616†	185.4	5.5447	µg/L	0.26516	5.5447	ppb	0.26516	4.78%

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   QC value within limits for Co 228.616  Recovery = 110.89%
Cr 267.716†              372.6      7.9799 µg/L       0.25447      7.9799 ppb        0.25447   3.19%
   QC value greater than the upper limit for Cr 267.716  Recovery = 159.60%
Cu 324.752†             1978.5      10.448 µg/L        0.3309      10.448 ppb         0.3309   3.17%
   QC value within limits for Cu 324.752  Recovery = 104.48%
Fe 238.204 Radial†       101.7      109.42 µg/L         1.335      109.42 ppb          1.335   1.22%
   QC value within limits for Fe 238.204 Radial  Recovery = 109.42%
K 766.490 Radial†        196.5      170.53 µg/L        39.425      170.53 ppb         39.425  23.12%
   QC value within limits for K 766.490 Radial  Recovery = 113.69%
Mg 279.077 IEC†           44.5      349.53 µg/L        32.864      349.53 ppb         32.864   9.40%
   QC value within limits for Mg 279.077 IEC  Recovery = 116.51%
Mn 257.610†             6885.9      11.357 µg/L        0.0350      11.357 ppb         0.0350   0.31%
   QC value within limits for Mn 257.610  Recovery = 113.57%
Mo 202.031†               89.4      10.587 µg/L        0.5879      10.587 ppb         0.5879   5.55%
   QC value within limits for Mo 202.031  Recovery = 105.87%
Na 589.592 Radial†        58.3      344.58 µg/L        90.544      344.58 ppb         90.544  26.28%
   QC value within limits for Na 589.592 Radial  Recovery = 114.86%
Ni 231.604†              216.0      8.1017 µg/L       0.35714      8.1017 ppb        0.35714   4.41%
   QC value greater than the upper limit for Ni 231.604  Recovery = 162.03%
P 214.914†               156.5      147.71 µg/L        13.723      147.71 ppb         13.723   9.29%
   QC value within limits for P 214.914  Recovery = 98.47%
Pb 220.353†               49.4      9.6796 µg/L       1.96263      9.6796 ppb        1.96263  20.28%
   QC value within limits for Pb 220.353  Recovery = 96.80%
S 181.975 Axial†          36.2      99.248 µg/L       15.0507      99.248 ppb        15.0507  15.16%
   QC value within limits for S 181.975 Axial  Recovery = 99.25%
Sb 206.836†               19.4      10.196 µg/L        3.5107      10.196 ppb         3.5107  34.43%
   QC value within limits for Sb 206.836  Recovery = 101.96%
Se 196.026†               20.6      39.710 µg/L        2.4396      39.710 ppb         2.4396   6.14%
   QC value greater than the upper limit for Se 196.026  Recovery = 132.37%
SiO2†                   1654.1      209.34 µg/L         4.024      209.34 ppb          4.024   1.92%
   QC value within limits for SiO2  Recovery = 98.28%
Si 251.611†             1632.2      91.426 µg/L        1.3836      91.426 ppb         1.3836   1.51%
   QC value within limits for Si 251.611  Recovery = 91.43%
Sn 189.927†               34.8      10.711 µg/L        0.8476      10.711 ppb         0.8476   7.91%
   QC value within limits for Sn 189.927  Recovery = 107.11%
Sr 421.552†              376.4      5.5285 µg/L       0.11739      5.5285 ppb        0.11739   2.12%
   QC value within limits for Sr 421.552  Recovery = 110.57%
Ti 334.940†             1808.5      4.9292 µg/L       0.14761      4.9292 ppb        0.14761   2.99%
   QC value within limits for Ti 334.940  Recovery = 98.58%
Tl 190.801†               32.7      16.454 µg/L        1.7885      16.454 ppb         1.7885  10.87%
   QC value within limits for Tl 190.801  Recovery = 82.27%
U 367.007†               142.1       46.68 µg/L         6.922       46.68 ppb          6.922  14.83%
   QC value within limits for U 367.007  Recovery = 93.35%
V 292.402†               519.2      5.4359 µg/L       0.31490      5.4359 ppb        0.31490   5.79%
   QC value within limits for V 292.402  Recovery = 108.72%
Zn 213.857†              742.9      10.023 µg/L        0.1228      10.023 ppb         0.1228   1.22%
   QC value within limits for Zn 213.857  Recovery = 100.23%
QC Failed.  Continue with analysis.
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Sequence No.: 6 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 9:39:06**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6176.0	6176.0	96.0	%			09:39:36
1	Al 396.153Radial†	-147.8	21.3	22.238	µg/L	22.238	ppb	09:39:36
1	Ca 317.933Radial†	49.1	4.2	4.0510	µg/L	4.0510	ppb	09:39:56
1	Fe 238.204 Radial†	38.0	-0.4	-0.4403	µg/L	-0.4403	ppb	09:39:56
1	K 766.490 Radial†	558.4	-79.9	-69.533	µg/L	-69.533	ppb	09:39:36
1	Mg 279.077 IEC†	12.8	5.0	39.226	µg/L	39.226	ppb	09:39:56
1	Na 589.592 Radial†	-163.9	12.3	72.922	µg/L	72.922	ppb	09:39:36
1	Sr 421.552†	-864.5	-14.5	-0.2132	µg/L	-0.2132	ppb	09:39:36
1	Sc 361.383	554629.7	554629.7	97.841	%			09:40:52
1	Y 371.029	510004.2	510004.2	97.930	%			09:40:52
1	Ag 328.068†	-303.0	-62.9	-0.4339	µg/L	-0.4339	ppb	09:40:52
1	As 188.979†	-20.8	-8.8	-7.3481	µg/L	-7.3481	ppb	09:41:13
1	B 249.677†	225.9	5.0	0.1982	µg/L	0.1982	ppb	09:40:52
1	Ba 233.527†	-71.6	-19.0	-0.2024	µg/L	-0.2024	ppb	09:41:13
1	Be 313.107†	-5275.6	116.3	0.0594	µg/L	0.0594	ppb	09:40:52
1	Cd 226.502†	-146.4	8.8	0.1424	µg/L	0.1424	ppb	09:41:13
1	Co 228.616†	-96.9	16.4	0.4899	µg/L	0.4899	ppb	09:41:13
1	Cr 267.716†	58.8	-20.9	-0.4412	µg/L	-0.4412	ppb	09:40:52
1	Cu 324.752†	2412.9	111.4	0.5783	µg/L	0.5783	ppb	09:40:52
1	Mn 257.610†	471.7	86.8	0.1418	µg/L	0.1418	ppb	09:40:52
1	Mo 202.031†	11.3	0.2	0.0291	µg/L	0.0291	ppb	09:41:13
1	Ni 231.604†	-84.7	26.7	1.0016	µg/L	1.0016	ppb	09:41:13
1	P 214.914†	63.9	11.0	10.398	µg/L	10.398	ppb	09:41:13
1	Pb 220.353†	147.7	-19.9	-3.9294	µg/L	-3.9294	ppb	09:41:13
1	S 181.975 Axial†	53.4	2.3	6.3710	µg/L	6.3710	ppb	09:41:13
1	Sb 206.836†	55.1	-7.4	-3.9128	µg/L	-3.9128	ppb	09:41:13
1	Se 196.026†	-59.6	-10.6	-20.180	µg/L	-20.180	ppb	09:41:13
1	SiO2†	1161.5	-2.2	1.1535	µg/L	1.1535	ppb	09:40:52
1	Si 251.611†	308.4	18.3	1.7779	µg/L	1.7779	ppb	09:41:13
1	Sn 189.927†	18.7	-4.0	-1.2177	µg/L	-1.2177	ppb	09:41:13
1	Ti 334.940†	-522.4	-48.0	-0.1250	µg/L	-0.1250	ppb	09:40:52
1	Tl 190.801†	-25.6	0.0	-0.0051	µg/L	-0.0051	ppb	09:41:13
1	U 367.007†	485.8	-41.2	-13.70	µg/L	-13.70	ppb	09:40:52
1	V 292.402†	43.3	-31.6	-0.3320	µg/L	-0.3320	ppb	09:40:52
1	Zn 213.857†	713.5	18.1	0.2377	µg/L	0.2377	ppb	09:41:13
2	Sc RADIAL	6117.4	6117.4	95.1	%			09:40:01
2	Al 396.153Radial†	-127.9	40.8	42.592	µg/L	42.592	ppb	09:40:01
2	Ca 317.933Radial†	35.2	-9.9	-9.5667	µg/L	-9.5667	ppb	09:40:21
2	Fe 238.204 Radial†	38.3	0.3	0.2902	µg/L	0.2902	ppb	09:40:21
2	K 766.490 Radial†	656.3	28.7	24.929	µg/L	24.929	ppb	09:40:01
2	Mg 279.077 IEC†	7.0	-1.0	-7.7482	µg/L	-7.7482	ppb	09:40:21
2	Na 589.592 Radial†	-173.3	0.8	4.4882	µg/L	4.4882	ppb	09:40:01
2	Sr 421.552†	-803.6	40.9	0.6013	µg/L	0.6013	ppb	09:40:01
2	Sc 361.383	551754.5	551754.5	97.334	%			09:41:18
2	Y 371.029	506749.8	506749.8	97.305	%			09:41:18
2	Ag 328.068†	-262.6	-22.9	-0.1523	µg/L	-0.1523	ppb	09:41:18
2	As 188.979†	-12.4	-0.3	-0.2772	µg/L	-0.2772	ppb	09:41:38
2	B 249.677†	217.9	-2.1	-0.0815	µg/L	-0.0815	ppb	09:41:18
2	Ba 233.527†	-63.4	-11.0	-0.1159	µg/L	-0.1159	ppb	09:41:38
2	Be 313.107†	-5259.2	105.0	0.0486	µg/L	0.0486	ppb	09:41:18
2	Cd 226.502†	-133.3	21.5	0.3476	µg/L	0.3476	ppb	09:41:38
2	Co 228.616†	-101.6	11.0	0.3290	µg/L	0.3290	ppb	09:41:38
2	Cr 267.716†	92.5	14.0	0.3233	µg/L	0.3233	ppb	09:41:18
2	Cu 324.752†	2508.2	222.1	1.1478	µg/L	1.1478	ppb	09:41:18
2	Mn 257.610†	433.8	50.4	0.0835	µg/L	0.0835	ppb	09:41:18
2	Mo 202.031†	11.2	0.2	0.0283	µg/L	0.0283	ppb	09:41:38
2	Ni 231.604†	-105.0	5.4	0.2031	µg/L	0.2031	ppb	09:41:38
2	P 214.914†	49.8	-3.2	-3.0565	µg/L	-3.0565	ppb	09:41:38
2	Pb 220.353†	171.5	5.4	1.0521	µg/L	1.0521	ppb	09:41:38

2	S 181.975 Axial†	56.1	5.4	14.830	µg/L	14.830	ppb	09:41:38
2	Sb 206.836†	70.3	8.5	4.5027	µg/L	4.5027	ppb	09:41:38
2	Se 196.026†	-44.2	4.9	9.0926	µg/L	9.0926	ppb	09:41:38
2	SiO2†	1239.2	83.7	9.8436	µg/L	9.8436	ppb	09:41:18
2	Si 251.611†	292.8	3.9	-0.0388	µg/L	-0.0388	ppb	09:41:38
2	Sn 189.927†	30.2	8.0	2.4411	µg/L	2.4411	ppb	09:41:38
2	Ti 334.940†	-593.6	-123.9	-0.3221	µg/L	-0.3221	ppb	09:41:18
2	Tl 190.801†	-34.4	-9.2	-4.6250	µg/L	-4.6250	ppb	09:41:38
2	U 367.007†	415.6	-110.7	-36.83	µg/L	-36.83	ppb	09:41:18
2	V 292.402†	152.0	80.3	0.7849	µg/L	0.7849	ppb	09:41:18
2	Zn 213.857†	703.0	11.0	0.1479	µg/L	0.1479	ppb	09:41:38
3	Sc RADIAL	6204.0	6204.0	96.4	%			09:40:26
3	Al 396.153Radial†	-174.8	-6.0	-6.3062	µg/L	-6.3062	ppb	09:40:26
3	Ca 317.933Radial†	45.4	0.2	0.1659	µg/L	0.1659	ppb	09:40:46
3	Fe 238.204 Radial†	37.0	-1.7	-1.8009	µg/L	-1.8009	ppb	09:40:46
3	K 766.490 Radial†	702.7	67.1	58.369	µg/L	58.369	ppb	09:40:26
3	Mg 279.077 IEC†	7.0	-1.1	-8.2655	µg/L	-8.2655	ppb	09:40:46
3	Na 589.592 Radial†	-183.8	-7.5	-44.577	µg/L	-44.577	ppb	09:40:26
3	Sr 421.552†	-848.9	5.7	0.0841	µg/L	0.0841	ppb	09:40:26
3	Sc 361.383	555957.4	555957.4	98.075	%			09:41:43
3	Y 371.029	511311.9	511311.9	98.181	%			09:41:43
3	Ag 328.068†	-208.9	33.9	0.2366	µg/L	0.2366	ppb	09:41:43
3	As 188.979†	-17.3	-5.2	-4.3433	µg/L	-4.3433	ppb	09:42:03
3	B 249.677†	268.4	47.8	1.5748	µg/L	1.5748	ppb	09:41:43
3	Ba 233.527†	-68.7	-15.9	-0.1675	µg/L	-0.1675	ppb	09:42:03
3	Be 313.107†	-5347.9	55.4	0.0301	µg/L	0.0301	ppb	09:41:43
3	Cd 226.502†	-163.3	-8.1	-0.1308	µg/L	-0.1308	ppb	09:42:03
3	Co 228.616†	-96.1	17.4	0.5211	µg/L	0.5211	ppb	09:42:03
3	Cr 267.716†	60.1	-19.8	-0.4263	µg/L	-0.4263	ppb	09:41:43
3	Cu 324.752†	2373.4	65.2	0.3446	µg/L	0.3446	ppb	09:41:43
3	Mn 257.610†	416.3	29.2	0.0483	µg/L	0.0483	ppb	09:41:43
3	Mo 202.031†	16.0	5.1	0.5976	µg/L	0.5976	ppb	09:42:03
3	Ni 231.604†	-105.6	5.7	0.2115	µg/L	0.2115	ppb	09:42:03
3	P 214.914†	40.6	-13.0	-12.264	µg/L	-12.264	ppb	09:42:03
3	Pb 220.353†	138.9	-29.2	-5.7630	µg/L	-5.7630	ppb	09:42:03
3	S 181.975 Axial†	51.1	-0.2	-0.5405	µg/L	-0.5405	ppb	09:42:03
3	Sb 206.836†	62.5	-0.1	0.0012	µg/L	0.0012	ppb	09:42:03
3	Se 196.026†	-47.2	2.2	4.1818	µg/L	4.1818	ppb	09:42:03
3	SiO2†	1227.7	62.4	6.6827	µg/L	6.6827	ppb	09:41:43
3	Si 251.611†	269.2	-22.4	-1.9064	µg/L	-1.9064	ppb	09:42:03
3	Sn 189.927†	34.6	12.2	3.7438	µg/L	3.7438	ppb	09:42:03
3	Ti 334.940†	-666.3	-193.4	-0.5304	µg/L	-0.5304	ppb	09:41:43
3	Tl 190.801†	-36.5	-11.0	-5.5141	µg/L	-5.5141	ppb	09:42:03
3	U 367.007†	535.8	8.6	2.877	µg/L	2.877	ppb	09:41:43
3	V 292.402†	142.0	68.9	0.7059	µg/L	0.7059	ppb	09:41:43
3	Zn 213.857†	699.5	2.0	0.0249	µg/L	0.0249	ppb	09:42:03

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	554113.8	97.750	%	0.3790				0.39%
Sc RADIAL	6165.8	95.8	%	0.69				0.72%
Y 371.029	509355.3	97.805	%	0.4511				0.46%
Ag 328.068†	-17.3	-0.1165	µg/L	0.33668	-0.1165	ppb	0.33668	288.99%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	18.7	19.508	µg/L	24.5633	19.508	ppb	24.5633	125.91%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-4.8	-3.9895	µg/L	3.54870	-3.9895	ppb	3.54870	88.95%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	16.9	0.5638	µg/L	0.88660	0.5638	ppb	0.88660	157.25%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-15.3	-0.1619	µg/L	0.04352	-0.1619	ppb	0.04352	26.87%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	92.2	0.0460	µg/L	0.01477	0.0460	ppb	0.01477	32.10%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-1.9	-1.7833	µg/L	7.01500	-1.7833	ppb	7.01500	393.38%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	7.4	0.1198	µg/L	0.24002	0.1198	ppb	0.24002	200.42%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	14.9	0.4467	µg/L	0.10312	0.4467	ppb	0.10312	23.09%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -8.9     -0.1814 µg/L       0.43716     -0.1814 ppb        0.43716 241.00%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               132.9      0.6902 µg/L       0.41312      0.6902 ppb        0.41312  59.85%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -0.6     -0.6504 µg/L       1.06126     -0.6504 ppb        1.06126 163.18%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†           5.3      4.5881 µg/L      66.33286      4.5881 ppb       66.33286 >999.9%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             1.0      7.7375 µg/L      27.27118      7.7375 ppb       27.27118 352.46%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                55.5      0.0912 µg/L       0.04719      0.0912 ppb        0.04719  51.75%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 1.8      0.2183 µg/L       0.32847      0.2183 ppb        0.32847 150.45%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          1.9      10.944 µg/L       59.0147      10.944 ppb        59.0147 539.22%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                12.6      0.4721 µg/L       0.45859      0.4721 ppb        0.45859  97.15%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -1.7     -1.6407 µg/L      11.39729     -1.6407 ppb       11.39729 694.67%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -14.6     -2.8801 µg/L       3.52663     -2.8801 ppb        3.52663 122.45%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            2.5      6.8868 µg/L       7.69818      6.8868 ppb        7.69818 111.78%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 0.4      0.1970 µg/L       4.21120      0.1970 ppb        4.21120 >999.9%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -1.2     -2.3017 µg/L      15.67615     -2.3017 ppb       15.67615 681.06%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      48.0      5.8933 µg/L       4.39852      5.8933 ppb        4.39852  74.64%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                -0.1     -0.0558 µg/L       1.84224     -0.0558 ppb        1.84224 >999.9%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 5.4      1.6557 µg/L       2.57231      1.6557 ppb        2.57231 155.36%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                10.7      0.1574 µg/L       0.41219      0.1574 ppb        0.41219 261.89%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -121.8     -0.3258 µg/L       0.20271     -0.3258 ppb        0.20271  62.22%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -6.7     -3.3814 µg/L       2.95758     -3.3814 ppb        2.95758  87.47%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -47.8      -15.88 µg/L        19.943      -15.88 ppb         19.943 125.57%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 39.2      0.3862 µg/L       0.62330      0.3862 ppb        0.62330 161.37%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                10.4      0.1368 µg/L       0.10680      0.1368 ppb        0.10680  78.05%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 7 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 9:42:11**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6301.8	6301.8	97.9	%			09:43:00
1	Al 396.153Radial†	4571.6	4842.9	5016.5	µg/L	5016.5	ppb	09:42:40
1	Ca 317.933Radial†	5162.0	5223.5	5026.5	µg/L	5026.5	ppb	09:43:00
1	Fe 238.204 Radial†	4730.6	4790.0	5153.4	µg/L	5153.4	ppb	09:43:00
1	K 766.490 Radial†	6332.8	5804.2	5035.1	µg/L	5035.1	ppb	09:42:40
1	Mg 279.077 IEC†	659.6	665.1	5221.7	µg/L	5221.7	ppb	09:43:00
1	Na 589.592 Radial†	1493.7	1708.1	10093	µg/L	10093	ppb	09:42:40
1	Sr 421.552†	32979.7	34558.5	507.71	µg/L	507.71	ppb	09:42:40
1	Sc 361.383	574001.0	574001.0	101.26	%			09:43:57
1	Y 371.029	512804.3	512804.3	98.468	%			09:43:57
1	Ag 328.068†	74432.4	73754.4	511.22	µg/L	511.22	ppb	09:44:03
1	As 188.979†	594.7	599.7	498.87	µg/L	498.87	ppb	09:44:23
1	B 249.677†	15157.4	14743.1	491.80	µg/L	491.80	ppb	09:44:03
1	Ba 233.527†	47545.5	47008.9	499.41	µg/L	499.41	ppb	09:44:03
1	Be 313.107†	937845.2	931700.4	498.82	µg/L	498.82	ppb	09:43:57
1	Cd 226.502†	30820.8	30596.2	494.53	µg/L	494.53	ppb	09:44:03
1	Co 228.616†	16794.6	16701.3	498.95	µg/L	498.95	ppb	09:44:03
1	Cr 267.716†	23590.0	23215.9	498.41	µg/L	498.41	ppb	09:44:03
1	Cu 324.752†	99362.7	95773.2	504.68	µg/L	504.68	ppb	09:44:03
1	Mn 257.610†	304475.2	300296.7	495.71	µg/L	495.71	ppb	09:44:03
1	Mo 202.031†	4338.1	4272.9	505.83	µg/L	505.83	ppb	09:44:23
1	Ni 231.604†	13455.3	13401.4	502.58	µg/L	502.58	ppb	09:44:03
1	P 214.914†	2727.8	2639.5	2481.2	µg/L	2481.2	ppb	09:44:23
1	Pb 220.353†	2766.0	2560.8	505.47	µg/L	505.47	ppb	09:44:23
1	S 181.975 Axial†	416.8	359.4	992.97	µg/L	992.97	ppb	09:44:23
1	Sb 206.836†	1016.1	939.7	493.20	µg/L	493.20	ppb	09:44:23
1	Se 196.026†	210.0	257.7	500.66	µg/L	500.66	ppb	09:44:23
1	SiO2†	43464.0	41734.5	5276.6	µg/L	5276.6	ppb	09:44:03
1	Si 251.611†	44440.4	43591.3	2434.5	µg/L	2434.5	ppb	09:44:03
1	Sn 189.927†	1672.8	1629.0	501.78	µg/L	501.78	ppb	09:44:23
1	Ti 334.940†	187320.9	185479.3	507.32	µg/L	507.32	ppb	09:44:03
1	Tl 190.801†	987.3	1001.2	503.69	µg/L	503.69	ppb	09:44:23
1	U 367.007†	2039.4	1476.4	465.2	µg/L	465.2	ppb	09:44:03
1	V 292.402†	49821.0	49126.0	504.68	µg/L	504.68	ppb	09:44:03
1	Zn 213.857†	37935.7	36753.1	495.58	µg/L	495.58	ppb	09:44:03
2	Sc RADIAL	6321.4	6321.4	98.2	%			09:43:26
2	Al 396.153Radial†	4698.0	4957.1	5135.6	µg/L	5135.6	ppb	09:43:06
2	Ca 317.933Radial†	5171.8	5217.2	5020.5	µg/L	5020.5	ppb	09:43:26
2	Fe 238.204 Radial†	4722.9	4767.1	5128.9	µg/L	5128.9	ppb	09:43:26
2	K 766.490 Radial†	6440.7	5893.9	5113.0	µg/L	5113.0	ppb	09:43:06
2	Mg 279.077 IEC†	651.7	655.1	5142.8	µg/L	5142.8	ppb	09:43:26
2	Na 589.592 Radial†	1509.2	1719.2	10159	µg/L	10159	ppb	09:43:06
2	Sr 421.552†	33122.2	34599.2	508.31	µg/L	508.31	ppb	09:43:06
2	Sc 361.383	575315.9	575315.9	101.49	%			09:44:28
2	Y 371.029	513811.4	513811.4	98.661	%			09:44:28
2	Ag 328.068†	74964.7	74110.9	513.68	µg/L	513.68	ppb	09:44:34
2	As 188.979†	592.6	596.3	496.13	µg/L	496.13	ppb	09:44:54
2	B 249.677†	15237.6	14787.9	493.26	µg/L	493.26	ppb	09:44:34
2	Ba 233.527†	48033.2	47382.1	503.37	µg/L	503.37	ppb	09:44:34
2	Be 313.107†	942638.7	934306.7	500.21	µg/L	500.21	ppb	09:44:28
2	Cd 226.502†	31277.9	30977.1	500.69	µg/L	500.69	ppb	09:44:34
2	Co 228.616†	17004.8	16870.5	504.00	µg/L	504.00	ppb	09:44:34
2	Cr 267.716†	23858.9	23427.6	502.95	µg/L	502.95	ppb	09:44:34
2	Cu 324.752†	99986.8	96164.0	506.73	µg/L	506.73	ppb	09:44:34
2	Mn 257.610†	306912.9	302011.3	498.54	µg/L	498.54	ppb	09:44:34
2	Mo 202.031†	4349.6	4274.5	506.01	µg/L	506.01	ppb	09:44:54
2	Ni 231.604†	13548.4	13462.8	504.87	µg/L	504.87	ppb	09:44:34
2	P 214.914†	2733.9	2639.4	2481.1	µg/L	2481.1	ppb	09:44:54
2	Pb 220.353†	2785.2	2573.5	507.91	µg/L	507.91	ppb	09:44:54

2	S 181.975 Axial†	429.0	370.4	1023.2 µg/L	1023.2 ppb	09:44:54
2	Sb 206.836†	1019.3	940.6	493.61 µg/L	493.61 ppb	09:44:54
2	Se 196.026†	207.3	254.6	494.68 µg/L	494.68 ppb	09:44:54
2	SiO2†	43704.7	41873.6	5292.8 µg/L	5292.8 ppb	09:44:34
2	Si 251.611†	44775.0	43820.7	2446.8 µg/L	2446.8 ppb	09:44:34
2	Sn 189.927†	1684.6	1636.8	504.20 µg/L	504.20 ppb	09:44:54
2	Ti 334.940†	188633.1	186349.5	509.70 µg/L	509.70 ppb	09:44:34
2	Tl 190.801†	1005.6	1017.0	511.63 µg/L	511.63 ppb	09:44:54
2	U 367.007†	2030.4	1462.9	460.9 µg/L	460.9 ppb	09:44:34
2	V 292.402†	50220.3	49407.0	507.53 µg/L	507.53 ppb	09:44:34
2	Zn 213.857†	38282.9	37009.6	499.06 µg/L	499.06 ppb	09:44:34
3	Sc RADIAL	6324.7	6324.7	98.3 %		09:43:51
3	Al 396.153Radial†	4639.4	4895.0	5070.7 µg/L	5070.7 ppb	09:43:31
3	Ca 317.933Radial†	5177.3	5220.0	5023.2 µg/L	5023.2 ppb	09:43:51
3	Fe 238.204 Radial†	4736.4	4778.4	5141.0 µg/L	5141.0 ppb	09:43:51
3	K 766.490 Radial†	6523.0	5974.3	5183.0 µg/L	5183.0 ppb	09:43:31
3	Mg 279.077 IEC†	661.5	664.6	5217.8 µg/L	5217.8 ppb	09:43:51
3	Na 589.592 Radial†	1497.2	1706.2	10082 µg/L	10082 ppb	09:43:31
3	Sr 421.552†	33161.8	34621.9	508.65 µg/L	508.65 ppb	09:43:31
3	Sc 361.383	575975.7	575975.7	101.61 %		09:44:59
3	Y 371.029	513970.1	513970.1	98.691 %		09:44:59
3	Ag 328.068†	74852.6	73916.0	512.34 µg/L	512.34 ppb	09:45:04
3	As 188.979†	596.0	598.9	498.27 µg/L	498.27 ppb	09:45:24
3	B 249.677†	15191.7	14725.6	491.12 µg/L	491.12 ppb	09:45:04
3	Ba 233.527†	47866.6	47163.9	501.06 µg/L	501.06 ppb	09:45:04
3	Be 313.107†	938304.2	928976.8	497.36 µg/L	497.36 ppb	09:44:59
3	Cd 226.502†	31185.3	30850.6	498.65 µg/L	498.65 ppb	09:45:04
3	Co 228.616†	17029.3	16875.4	504.15 µg/L	504.15 ppb	09:45:04
3	Cr 267.716†	23750.4	23293.9	500.08 µg/L	500.08 ppb	09:45:04
3	Cu 324.752†	99864.0	95930.2	505.51 µg/L	505.51 ppb	09:45:04
3	Mn 257.610†	306642.5	301398.8	497.52 µg/L	497.52 ppb	09:45:04
3	Mo 202.031†	4336.4	4256.5	503.89 µg/L	503.89 ppb	09:45:24
3	Ni 231.604†	13580.5	13479.1	505.49 µg/L	505.49 ppb	09:45:04
3	P 214.914†	2719.7	2622.3	2465.0 µg/L	2465.0 ppb	09:45:24
3	Pb 220.353†	2738.7	2524.6	498.29 µg/L	498.29 ppb	09:45:24
3	S 181.975 Axial†	422.0	363.1	1003.0 µg/L	1003.0 ppb	09:45:24
3	Sb 206.836†	1023.8	943.9	495.37 µg/L	495.37 ppb	09:45:24
3	Se 196.026†	219.5	266.3	517.12 µg/L	517.12 ppb	09:45:24
3	SiO2†	43808.2	41926.1	5298.0 µg/L	5298.0 ppb	09:45:04
3	Si 251.611†	44796.6	43791.4	2444.4 µg/L	2444.4 ppb	09:45:04
3	Sn 189.927†	1684.5	1634.7	503.55 µg/L	503.55 ppb	09:45:24
3	Ti 334.940†	188385.6	185892.9	508.44 µg/L	508.44 ppb	09:45:04
3	Tl 190.801†	992.6	1003.1	504.64 µg/L	504.64 ppb	09:45:24
3	U 367.007†	2083.0	1512.3	477.2 µg/L	477.2 ppb	09:45:04
3	V 292.402†	50206.5	49336.8	506.80 µg/L	506.80 ppb	09:45:04
3	Zn 213.857†	38175.2	36860.4	497.02 µg/L	497.02 ppb	09:45:04

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	575097.5	101.45	%	0.177				0.17%
Sc RADIAL	6316.0	98.2	%	0.19				0.20%
Y 371.029	513528.6	98.607	%	0.1214				0.12%
Ag 328.068†	73927.1	512.41	µg/L	1.232	512.41	ppb	1.232	0.24%
QC value within limits for Ag 328.068 Recovery = 102.48%								
Al 396.153Radial†	4898.4	5074.3	µg/L	59.62	5074.3	ppb	59.62	1.17%
QC value within limits for Al 396.153Radial Recovery = 101.49%								
As 188.979†	598.3	497.75	µg/L	1.438	497.75	ppb	1.438	0.29%
QC value within limits for As 188.979 Recovery = 99.55%								
B 249.677†	14752.2	492.06	µg/L	1.091	492.06	ppb	1.091	0.22%
QC value within limits for B 249.677 Recovery = 98.41%								
Ba 233.527†	47185.0	501.28	µg/L	1.992	501.28	ppb	1.992	0.40%
QC value within limits for Ba 233.527 Recovery = 100.26%								
Be 313.107†	931661.3	498.80	µg/L	1.425	498.80	ppb	1.425	0.29%
QC value within limits for Be 313.107 Recovery = 99.76%								
Ca 317.933Radial†	5220.2	5023.4	µg/L	3.02	5023.4	ppb	3.02	0.06%
QC value within limits for Ca 317.933Radial Recovery = 100.47%								
Cd 226.502†	30808.0	497.96	µg/L	3.139	497.96	ppb	3.139	0.63%
QC value within limits for Cd 226.502 Recovery = 99.59%								
Co 228.616†	16815.7	502.37	µg/L	2.961	502.37	ppb	2.961	0.59%

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   QC value within limits for Co 228.616  Recovery = 100.47%
Cr 267.716†            23312.5      500.48 µg/L         2.299      500.48 ppb          2.299   0.46%
   QC value within limits for Cr 267.716  Recovery = 100.10%
Cu 324.752†            95955.8      505.64 µg/L         1.033      505.64 ppb          1.033   0.20%
   QC value within limits for Cu 324.752  Recovery = 101.13%
Fe 238.204 Radial†      4778.5      5141.1 µg/L         12.24      5141.1 ppb          12.24   0.24%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.82%
K 766.490 Radial†       5890.8      5110.4 µg/L         73.98      5110.4 ppb          73.98   1.45%
   QC value within limits for K 766.490 Radial  Recovery = 102.21%
Mg 279.077 IEC†          661.6      5194.1 µg/L         44.48      5194.1 ppb          44.48   0.86%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.88%
Mn 257.610†           301235.6      497.26 µg/L         1.434      497.26 ppb          1.434   0.29%
   QC value within limits for Mn 257.610  Recovery = 99.45%
Mo 202.031†             4268.0      505.24 µg/L         1.179      505.24 ppb          1.179   0.23%
   QC value within limits for Mo 202.031  Recovery = 101.05%
Na 589.592 Radial†      1711.2       10111 µg/L          41.4       10111 ppb           41.4   0.41%
   QC value within limits for Na 589.592 Radial  Recovery = 101.11%
Ni 231.604†            13447.8      504.31 µg/L         1.535      504.31 ppb          1.535   0.30%
   QC value within limits for Ni 231.604  Recovery = 100.86%
P 214.914†              2633.7      2475.8 µg/L          9.32      2475.8 ppb           9.32   0.38%
   QC value within limits for P 214.914  Recovery = 99.03%
Pb 220.353†             2553.0      503.89 µg/L         5.001      503.89 ppb          5.001   0.99%
   QC value within limits for Pb 220.353  Recovery = 100.78%
S 181.975 Axial†         364.3      1006.4 µg/L         15.38      1006.4 ppb          15.38   1.53%
   QC value within limits for S 181.975 Axial  Recovery = 100.64%
Sb 206.836†              941.4      494.06 µg/L         1.150      494.06 ppb          1.150   0.23%
   QC value within limits for Sb 206.836  Recovery = 98.81%
Se 196.026†              259.5      504.15 µg/L        11.621      504.15 ppb         11.621   2.31%
   QC value within limits for Se 196.026  Recovery = 100.83%
SiO2†                  41844.7      5289.1 µg/L         11.15      5289.1 ppb          11.15   0.21%
   QC value within limits for SiO2  Recovery = 98.91%
Si 251.611†            43734.5      2441.9 µg/L          6.52      2441.9 ppb           6.52   0.27%
   QC value within limits for Si 251.611  Recovery = 97.68%
Sn 189.927†             1633.5      503.18 µg/L         1.254      503.18 ppb          1.254   0.25%
   QC value within limits for Sn 189.927  Recovery = 100.64%
Sr 421.552†            34593.2      508.22 µg/L         0.472      508.22 ppb          0.472   0.09%
   QC value within limits for Sr 421.552  Recovery = 101.64%
Ti 334.940†           185907.2      508.49 µg/L         1.192      508.49 ppb          1.192   0.23%
   QC value within limits for Ti 334.940  Recovery = 101.70%
Tl 190.801†             1007.1      506.65 µg/L         4.336      506.65 ppb          4.336   0.86%
   QC value within limits for Tl 190.801  Recovery = 101.33%
U 367.007†              1483.9       467.8 µg/L          8.49       467.8 ppb           8.49   1.81%
   QC value within limits for U 367.007  Recovery = 93.55%
V 292.402†             49289.9      506.34 µg/L         1.483      506.34 ppb          1.483   0.29%
   QC value within limits for V 292.402  Recovery = 101.27%
Zn 213.857†            36874.4      497.22 µg/L         1.745      497.22 ppb          1.745   0.35%
   QC value within limits for Zn 213.857  Recovery = 99.44%
All analyte(s) passed QC.
```

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 9:45:32**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6363.6	6363.6	98.9	%			09:46:00
1	Al 396.153Radial†	-108.0	66.1	69.076	µg/L	69.076	ppb	09:46:00
1	Ca 317.933Radial†	48.7	2.3	2.2235	µg/L	2.2235	ppb	09:46:20
1	Fe 238.204 Radial†	38.7	-0.9	-0.9807	µg/L	-0.9807	ppb	09:46:20
1	K 766.490 Radial†	679.1	25.0	21.712	µg/L	21.712	ppb	09:46:00
1	Mg 279.077 IEC†	6.3	-1.9	-14.926	µg/L	-14.926	ppb	09:46:20
1	Na 589.592 Radial†	-188.3	-7.3	-43.379	µg/L	-43.379	ppb	09:46:00
1	Sr 421.552†	-914.5	-38.5	-0.5657	µg/L	-0.5657	ppb	09:46:00
1	Sc 361.383	559155.7	559155.7	98.639	%			09:47:17
1	Y 371.029	512425.6	512425.6	98.395	%			09:47:17
1	Ag 328.068†	-319.8	-77.4	-0.5251	µg/L	-0.5251	ppb	09:47:17
1	As 188.979†	-15.0	-2.9	-2.3793	µg/L	-2.3793	ppb	09:47:37
1	B 249.677†	302.4	80.6	2.6986	µg/L	2.6986	ppb	09:47:17
1	Ba 233.527†	-58.2	-4.8	-0.0497	µg/L	-0.0497	ppb	09:47:37
1	Be 313.107†	-4995.7	443.7	0.2365	µg/L	0.2365	ppb	09:47:17
1	Cd 226.502†	-158.6	-2.4	-0.0390	µg/L	-0.0390	ppb	09:47:37
1	Co 228.616†	-108.9	5.0	0.1511	µg/L	0.1511	ppb	09:47:37
1	Cr 267.716†	94.6	14.9	0.3231	µg/L	0.3231	ppb	09:47:17
1	Cu 324.752†	2354.3	31.9	0.1642	µg/L	0.1642	ppb	09:47:17
1	Mn 257.610†	521.4	133.3	0.2204	µg/L	0.2204	ppb	09:47:17
1	Mo 202.031†	23.6	12.6	1.4959	µg/L	1.4959	ppb	09:47:37
1	Ni 231.604†	-119.1	-7.4	-0.2784	µg/L	-0.2784	ppb	09:47:37
1	P 214.914†	55.5	1.9	1.8361	µg/L	1.8361	ppb	09:47:37
1	Pb 220.353†	163.3	-5.3	-1.0674	µg/L	-1.0674	ppb	09:47:37
1	S 181.975 Axial†	49.1	-2.5	-6.7482	µg/L	-6.7482	ppb	09:47:37
1	Sb 206.836†	70.2	7.4	3.9274	µg/L	3.9274	ppb	09:47:37
1	Se 196.026†	-52.6	-3.0	-5.8099	µg/L	-5.8099	ppb	09:47:37
1	SiO2†	1203.5	30.7	3.4284	µg/L	3.4284	ppb	09:47:17
1	Si 251.611†	306.3	13.6	0.5301	µg/L	0.5301	ppb	09:47:37
1	Sn 189.927†	19.4	-3.4	-1.0521	µg/L	-1.0521	ppb	09:47:37
1	Ti 334.940†	-444.3	35.5	0.0997	µg/L	0.0997	ppb	09:47:17
1	Tl 190.801†	-29.7	-3.9	-1.9451	µg/L	-1.9451	ppb	09:47:37
1	U 367.007†	515.3	-15.3	-5.071	µg/L	-5.071	ppb	09:47:17
1	V 292.402†	172.4	98.9	1.0149	µg/L	1.0149	ppb	09:47:17
1	Zn 213.857†	716.6	15.3	0.2096	µg/L	0.2096	ppb	09:47:37
2	Sc RADIAL	6364.4	6364.4	98.9	%			09:46:25
2	Al 396.153Radial†	-161.6	12.0	12.513	µg/L	12.513	ppb	09:46:25
2	Ca 317.933Radial†	40.5	-6.0	-5.7668	µg/L	-5.7668	ppb	09:46:45
2	Fe 238.204 Radial†	36.1	-3.5	-3.7466	µg/L	-3.7466	ppb	09:46:45
2	K 766.490 Radial†	689.6	35.5	30.759	µg/L	30.759	ppb	09:46:25
2	Mg 279.077 IEC†	12.5	4.4	34.195	µg/L	34.195	ppb	09:46:45
2	Na 589.592 Radial†	-158.1	23.3	137.45	µg/L	137.45	ppb	09:46:25
2	Sr 421.552†	-892.5	-16.1	-0.2371	µg/L	-0.2371	ppb	09:46:25
2	Sc 361.383	561644.7	561644.7	99.078	%			09:47:42
2	Y 371.029	515272.1	515272.1	98.941	%			09:47:42
2	Ag 328.068†	-242.2	2.4	0.0191	µg/L	0.0191	ppb	09:47:42
2	As 188.979†	-13.3	-1.1	-0.8757	µg/L	-0.8757	ppb	09:48:02
2	B 249.677†	339.6	116.8	3.9091	µg/L	3.9091	ppb	09:47:42
2	Ba 233.527†	-51.8	1.9	0.0211	µg/L	0.0211	ppb	09:48:02
2	Be 313.107†	-5285.1	174.0	0.0919	µg/L	0.0919	ppb	09:47:42
2	Cd 226.502†	-163.2	-6.3	-0.1016	µg/L	-0.1016	ppb	09:48:02
2	Co 228.616†	-98.2	16.2	0.4843	µg/L	0.4843	ppb	09:48:02
2	Cr 267.716†	93.4	13.3	0.2892	µg/L	0.2892	ppb	09:47:42
2	Cu 324.752†	2326.3	-6.9	-0.0398	µg/L	-0.0398	ppb	09:47:42
2	Mn 257.610†	409.4	17.9	0.0281	µg/L	0.0281	ppb	09:47:42
2	Mo 202.031†	11.0	-0.2	-0.0261	µg/L	-0.0261	ppb	09:48:02
2	Ni 231.604†	-100.7	11.7	0.4373	µg/L	0.4373	ppb	09:48:02
2	P 214.914†	51.7	-2.2	-2.0670	µg/L	-2.0670	ppb	09:48:02
2	Pb 220.353†	163.0	-6.3	-1.2441	µg/L	-1.2441	ppb	09:48:02

2	S 181.975 Axial†	54.9	3.1	8.5467	µg/L	8.5467	ppb	09:48:02
2	Sb 206.836†	63.6	0.5	0.2322	µg/L	0.2322	ppb	09:48:02
2	Se 196.026†	-51.7	-1.8	-3.5050	µg/L	-3.5050	ppb	09:48:02
2	SiO2†	1214.6	36.4	3.9272	µg/L	3.9272	ppb	09:47:42
2	Si 251.611†	308.4	14.4	0.4922	µg/L	0.4922	ppb	09:48:02
2	Sn 189.927†	21.4	-1.4	-0.4471	µg/L	-0.4471	ppb	09:48:02
2	Ti 334.940†	-422.7	59.4	0.1646	µg/L	0.1646	ppb	09:47:42
2	Tl 190.801†	-34.3	-8.4	-4.2339	µg/L	-4.2339	ppb	09:48:02
2	U 367.007†	515.1	-17.7	-5.882	µg/L	-5.882	ppb	09:47:42
2	V 292.402†	129.8	55.1	0.5534	µg/L	0.5534	ppb	09:47:42
2	Zn 213.857†	720.1	15.6	0.2089	µg/L	0.2089	ppb	09:48:02
3	Sc RADIAL	6380.7	6380.7	99.2	%			09:46:50
3	Al 396.153Radial†	-174.4	-0.5	-0.5971	µg/L	-0.5971	ppb	09:46:50
3	Ca 317.933Radial†	48.8	2.3	2.2098	µg/L	2.2098	ppb	09:47:10
3	Fe 238.204 Radial†	34.3	-5.5	-5.8838	µg/L	-5.8838	ppb	09:47:10
3	K 766.490 Radial†	739.8	84.3	73.336	µg/L	73.336	ppb	09:46:50
3	Mg 279.077 IEC†	10.6	2.4	18.574	µg/L	18.574	ppb	09:47:10
3	Na 589.592 Radial†	-192.5	-11.1	-65.428	µg/L	-65.428	ppb	09:46:50
3	Sr 421.552†	-857.7	21.3	0.3126	µg/L	0.3126	ppb	09:46:50
3	Sc 361.383	561872.3	561872.3	99.119	%			09:48:08
3	Y 371.029	515648.4	515648.4	99.014	%			09:48:08
3	Ag 328.068†	-252.0	-7.3	-0.0487	µg/L	-0.0487	ppb	09:48:08
3	As 188.979†	-11.4	0.9	0.7592	µg/L	0.7592	ppb	09:48:28
3	B 249.677†	300.3	77.0	2.5490	µg/L	2.5490	ppb	09:48:08
3	Ba 233.527†	-66.5	-13.0	-0.1368	µg/L	-0.1368	ppb	09:48:28
3	Be 313.107†	-5351.6	109.1	0.0575	µg/L	0.0575	ppb	09:48:08
3	Cd 226.502†	-147.4	9.7	0.1574	µg/L	0.1574	ppb	09:48:28
3	Co 228.616†	-88.8	25.7	0.7707	µg/L	0.7707	ppb	09:48:28
3	Cr 267.716†	71.9	-8.4	-0.1786	µg/L	-0.1786	ppb	09:48:08
3	Cu 324.752†	2378.4	44.7	0.2321	µg/L	0.2321	ppb	09:48:08
3	Mn 257.610†	412.0	20.4	0.0325	µg/L	0.0325	ppb	09:48:08
3	Mo 202.031†	18.3	7.2	0.8482	µg/L	0.8482	ppb	09:48:28
3	Ni 231.604†	-106.7	5.7	0.2117	µg/L	0.2117	ppb	09:48:28
3	P 214.914†	57.9	4.1	3.8614	µg/L	3.8614	ppb	09:48:28
3	Pb 220.353†	140.5	-29.1	-5.7345	µg/L	-5.7345	ppb	09:48:28
3	S 181.975 Axial†	52.1	0.3	0.8567	µg/L	0.8567	ppb	09:48:28
3	Sb 206.836†	64.6	1.5	0.7873	µg/L	0.7873	ppb	09:48:28
3	Se 196.026†	-58.9	-9.2	-17.446	µg/L	-17.446	ppb	09:48:28
3	SiO2†	1167.7	-11.3	-3.1703	µg/L	-3.1703	ppb	09:48:08
3	Si 251.611†	291.4	-2.9	-0.9536	µg/L	-0.9536	ppb	09:48:28
3	Sn 189.927†	25.3	2.4	0.7350	µg/L	0.7350	ppb	09:48:28
3	Ti 334.940†	-489.4	-7.8	-0.0196	µg/L	-0.0196	ppb	09:48:08
3	Tl 190.801†	-26.6	-0.6	-0.3140	µg/L	-0.3140	ppb	09:48:28
3	U 367.007†	521.0	-12.0	-3.973	µg/L	-3.973	ppb	09:48:08
3	V 292.402†	125.3	50.5	0.5172	µg/L	0.5172	ppb	09:48:08
3	Zn 213.857†	712.0	7.1	0.0952	µg/L	0.0952	ppb	09:48:28

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	560890.9	98.945	%	0.2658				0.27%
Sc RADIAL	6369.6	99.0	%	0.15				0.15%
Y 371.029	514448.7	98.783	%	0.3384				0.34%
Ag 328.068†	-27.4	-0.1849	µg/L	0.29661	-0.1849	ppb	0.29661	160.43%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	25.9	26.997	µg/L	37.0258	26.997	ppb	37.0258	137.15%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.0	-0.8319	µg/L	1.56970	-0.8319	ppb	1.56970	188.68%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	91.5	3.0522	µg/L	0.74585	3.0522	ppb	0.74585	24.44%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-5.3	-0.0551	µg/L	0.07911	-0.0551	ppb	0.07911	143.49%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	242.2	0.1286	µg/L	0.09496	0.1286	ppb	0.09496	73.83%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-0.5	-0.4445	µg/L	4.60925	-0.4445	ppb	4.60925	>999.9%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	0.3	0.0056	µg/L	0.13517	0.0056	ppb	0.13517	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	15.7	0.4687	µg/L	0.31011	0.4687	ppb	0.31011	66.17%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 6.6      0.1446 µg/L       0.28037      0.1446 ppb        0.28037 193.91%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                23.3      0.1188 µg/L       0.14151      0.1188 ppb        0.14151 119.11%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -3.3     -3.5370 µg/L       2.45827     -3.5370 ppb        2.45827  69.50%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          48.3      41.936 µg/L       27.5674      41.936 ppb        27.5674  65.74%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             1.6      12.614 µg/L       25.0972      12.614 ppb        25.0972 198.96%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                57.2      0.0937 µg/L       0.10979      0.0937 ppb        0.10979 117.22%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 6.5      0.7727 µg/L       0.76382      0.7727 ppb        0.76382  98.86%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          1.6      9.5493 µg/L     111.31640      9.5493 ppb      111.31640 >999.9%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 3.3      0.1235 µg/L       0.36590      0.1235 ppb        0.36590 296.19%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  1.3      1.2102 µg/L       3.01338      1.2102 ppb        3.01338 249.00%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -13.5     -2.6820 µg/L       2.64505     -2.6820 ppb        2.64505  98.62%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            0.3      0.8851 µg/L       7.64753      0.8851 ppb        7.64753 864.05%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 3.1      1.6490 µg/L       1.99265      1.6490 ppb        1.99265 120.84%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -4.7     -8.9202 µg/L       7.47268     -8.9202 ppb        7.47268  83.77%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      18.6      1.3951 µg/L       3.96161      1.3951 ppb        3.96161 283.97%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                 8.4      0.0229 µg/L       0.84586      0.0229 ppb        0.84586 >999.9%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -0.8     -0.2548 µg/L       0.90897     -0.2548 ppb        0.90897 356.80%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -11.1     -0.1634 µg/L       0.44378     -0.1634 ppb        0.44378 271.62%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                29.0      0.0816 µg/L       0.09340      0.0816 ppb        0.09340 114.51%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -4.3     -2.1643 µg/L       1.96911     -2.1643 ppb        1.96911  90.98%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -15.0      -4.975 µg/L        0.9581      -4.975 ppb         0.9581  19.26%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 68.1      0.6952 µg/L       0.27746      0.6952 ppb        0.27746  39.91%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                12.6      0.1712 µg/L       0.06587      0.1712 ppb        0.06587  38.47%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 12 **Autosampler Location: 103**
Sample ID: ICSA **Date Collected: 11/5/2013 9:57:51**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6055.3	6055.3	94.1	%			09:58:28
1	Al 396.153Radial†	440166.2	467881.2	489120	µg/L	489120	ppb	09:58:23
1	Ca 317.933Radial†	465115.3	494169.1	475540	µg/L	475540	ppb	09:58:23
1	Fe 238.204 Radial†	164916.2	175194.4	188310	µg/L	188310	ppb	09:58:23
1	K 766.490 Radial†	783.4	170.8	41.900	µg/L	41.900	ppb	09:58:28
1	Mg 279.077 IEC†	56995.2	60552.9	475400	µg/L	475400	ppb	09:58:28
1	Na 589.592 Radial†	-173.6	-1.4	-8.2936	µg/L	-8.2936	ppb	09:58:28
1	Sr 421.552†	-671.4	172.7	0.2214	µg/L	0.2214	ppb	09:58:28
1	Sc 361.383	511849.7	511849.7	90.294	%			09:58:55
1	Y 371.029	453521.4	453521.4	87.084	%			09:58:55
1	Ag 328.068†	-7294.3	-7831.5	1.4924	µg/L	1.4924	ppb	09:58:55
1	As 188.979†	-46.1	-38.6	-14.403	µg/L	-14.403	ppb	09:59:15
1	B 249.677†	914.2	786.5	8.2398	µg/L	8.2398	ppb	09:58:55
1	Ba 233.527†	321.5	410.2	0.4056	µg/L	0.4056	ppb	09:59:15
1	Be 313.107†	-13425.0	-9359.8	0.1840	µg/L	0.1840	ppb	09:58:55
1	Cd 226.502†	910.0	1166.2	0.2350	µg/L	0.2350	ppb	09:59:15
1	Co 228.616†	-121.3	-19.0	-1.4019	µg/L	-1.4019	ppb	09:59:15
1	Cr 267.716†	-601.5	-747.2	0.4439	µg/L	0.4439	ppb	09:59:15
1	Cu 324.752†	855.1	-1407.8	1.5988	µg/L	1.5988	ppb	09:58:55
1	Mn 257.610†	480.2	136.6	-0.6266	µg/L	-0.6266	ppb	09:58:55
1	Mo 202.031†	-50.6	-67.3	-0.1249	µg/L	-0.1249	ppb	09:59:15
1	Ni 231.604†	-271.8	-187.8	-1.7922	µg/L	-1.7922	ppb	09:59:15
1	P 214.914†	107.6	64.8	57.638	µg/L	57.638	ppb	09:59:15
1	Pb 220.353†	1110.8	1059.4	-7.4830	µg/L	-7.4830	ppb	09:59:15
1	S 181.975 Axial†	76.5	32.5	20.157	µg/L	20.157	ppb	09:59:15
1	Sb 206.836†	90.3	36.2	-15.109	µg/L	-15.109	ppb	09:59:15
1	Se 196.026†	-134.6	-98.7	15.153	µg/L	15.153	ppb	09:59:15
1	SiO2†	817.1	-284.5	-14.369	µg/L	-14.369	ppb	09:59:15
1	Si 251.611†	264.5	-4.0	-4.9060	µg/L	-4.9060	ppb	09:59:15
1	Sn 189.927†	-314.1	-371.0	-11.901	µg/L	-11.901	ppb	09:59:15
1	Ti 334.940†	-4935.8	-4980.4	0.4107	µg/L	0.4107	ppb	09:58:55
1	Tl 190.801†	-41.5	-19.8	-9.0354	µg/L	-9.0354	ppb	09:59:15
1	U 367.007†	3482.9	3319.6	28.38	µg/L	28.38	ppb	09:58:55
1	V 292.402†	1.7	-74.0	0.6591	µg/L	0.6591	ppb	09:59:15
1	Zn 213.857†	2155.3	1675.8	-1.6790	µg/L	-1.6790	ppb	09:59:15
2	Sc RADIAL	6003.2	6003.2	93.3	%			09:58:38
2	Al 396.153Radial†	439792.5	471544.3	492950	µg/L	492950	ppb	09:58:33
2	Ca 317.933Radial†	463755.7	497005.8	478270	µg/L	478270	ppb	09:58:33
2	Fe 238.204 Radial†	164204.5	175954.1	189130	µg/L	189130	ppb	09:58:33
2	K 766.490 Radial†	690.9	78.9	-38.701	µg/L	-38.701	ppb	09:58:38
2	Mg 279.077 IEC†	56317.5	60352.7	473830	µg/L	473830	ppb	09:58:38
2	Na 589.592 Radial†	-162.3	9.1	53.595	µg/L	53.595	ppb	09:58:38
2	Sr 421.552†	-669.7	168.3	0.1441	µg/L	0.1441	ppb	09:58:38
2	Sc 361.383	506238.1	506238.1	89.304	%			09:59:20
2	Y 371.029	448680.3	448680.3	86.155	%			09:59:20
2	Ag 328.068†	-7331.4	-7962.6	0.8408	µg/L	0.8408	ppb	09:59:20
2	As 188.979†	-40.9	-33.4	-9.9881	µg/L	-9.9881	ppb	09:59:40
2	B 249.677†	947.6	835.2	9.8321	µg/L	9.8321	ppb	09:59:20
2	Ba 233.527†	309.2	400.4	0.2841	µg/L	0.2841	ppb	09:59:40
2	Be 313.107†	-13281.7	-9364.1	0.2136	µg/L	0.2136	ppb	09:59:20
2	Cd 226.502†	893.5	1159.0	0.0369	µg/L	0.0369	ppb	09:59:40
2	Co 228.616†	-88.5	16.2	-0.3520	µg/L	-0.3520	ppb	09:59:40
2	Cr 267.716†	-609.1	-763.0	0.0729	µg/L	0.0729	ppb	09:59:40
2	Cu 324.752†	879.8	-1369.7	1.8462	µg/L	1.8462	ppb	09:59:20
2	Mn 257.610†	499.5	164.0	-0.4563	µg/L	-0.4563	ppb	09:59:20
2	Mo 202.031†	-48.2	-65.3	0.1490	µg/L	0.1490	ppb	09:59:40
2	Ni 231.604†	-269.2	-188.2	-1.7853	µg/L	-1.7853	ppb	09:59:40
2	P 214.914†	80.5	35.8	30.686	µg/L	30.686	ppb	09:59:40
2	Pb 220.353†	1159.0	1127.1	4.1395	µg/L	4.1395	ppb	09:59:40

2	S 181.975 Axial†	95.5	54.7	80.273	µg/L	80.273	ppb	09:59:40
2	Sb 206.836†	96.3	44.1	-11.190	µg/L	-11.190	ppb	09:59:40
2	Se 196.026†	-125.2	-89.9	32.935	µg/L	32.935	ppb	09:59:40
2	SiO2†	846.8	-241.2	-6.7638	µg/L	-6.7638	ppb	09:59:40
2	Si 251.611†	246.8	-20.5	-4.7691	µg/L	-4.7691	ppb	09:59:40
2	Sn 189.927†	-296.9	-355.6	-6.3210	µg/L	-6.3210	ppb	09:59:40
2	Ti 334.940†	-5040.8	-5158.6	0.0347	µg/L	0.0347	ppb	09:59:20
2	Tl 190.801†	-35.1	-13.2	-5.6905	µg/L	-5.6905	ppb	09:59:40
2	U 367.007†	3490.9	3371.4	40.83	µg/L	40.83	ppb	09:59:20
2	V 292.402†	27.1	-45.6	0.9656	µg/L	0.9656	ppb	09:59:40
2	Zn 213.857†	2172.6	1721.6	-1.1384	µg/L	-1.1384	ppb	09:59:40
3	Sc RADIAL	6031.3	6031.3	93.7	%			09:58:48
3	Al 396.153Radial†	441364.4	471018.0	492400	µg/L	492400	ppb	09:58:43
3	Ca 317.933Radial†	464010.1	494954.0	476300	µg/L	476300	ppb	09:58:43
3	Fe 238.204 Radial†	164388.2	175327.5	188450	µg/L	188450	ppb	09:58:43
3	K 766.490 Radial†	739.3	127.1	3.3297	µg/L	3.3297	ppb	09:58:48
3	Mg 279.077 IEC†	56252.5	60001.3	471070	µg/L	471070	ppb	09:58:48
3	Na 589.592 Radial†	-162.3	9.9	58.557	µg/L	58.557	ppb	09:58:48
3	Sr 421.552†	-724.2	113.6	-0.6503	µg/L	-0.6503	ppb	09:58:48
3	Sc 361.383	506786.2	506786.2	89.401	%			09:59:46
3	Y 371.029	449423.7	449423.7	86.297	%			09:59:46
3	Ag 328.068†	-7350.3	-7974.8	0.5546	µg/L	0.5546	ppb	09:59:46
3	As 188.979†	-28.3	-19.2	1.6900	µg/L	1.6900	ppb	10:00:06
3	B 249.677†	907.2	788.8	8.3194	µg/L	8.3194	ppb	09:59:46
3	Ba 233.527†	301.7	391.6	0.2046	µg/L	0.2046	ppb	10:00:06
3	Be 313.107†	-13531.1	-9627.1	0.0548	µg/L	0.0548	ppb	09:59:46
3	Cd 226.502†	914.5	1181.4	0.4653	µg/L	0.4653	ppb	10:00:06
3	Co 228.616†	-99.0	4.7	-0.6954	µg/L	-0.6954	ppb	10:00:06
3	Cr 267.716†	-642.2	-799.3	-0.8040	µg/L	-0.8040	ppb	10:00:06
3	Cu 324.752†	788.9	-1472.3	1.2831	µg/L	1.2831	ppb	09:59:46
3	Mn 257.610†	427.5	82.9	-0.5496	µg/L	-0.5496	ppb	09:59:46
3	Mo 202.031†	-49.0	-66.1	0.0275	µg/L	0.0275	ppb	10:00:06
3	Ni 231.604†	-270.5	-189.2	-1.8433	µg/L	-1.8433	ppb	10:00:06
3	P 214.914†	85.0	40.7	35.732	µg/L	35.732	ppb	10:00:06
3	Pb 220.353†	1158.3	1124.8	3.8484	µg/L	3.8484	ppb	10:00:06
3	S 181.975 Axial†	76.2	33.0	21.033	µg/L	21.033	ppb	10:00:06
3	Sb 206.836†	111.9	61.4	-1.9513	µg/L	-1.9513	ppb	10:00:06
3	Se 196.026†	-112.0	-75.0	60.817	µg/L	60.817	ppb	10:00:06
3	SiO2†	831.0	-259.9	-10.103	µg/L	-10.103	ppb	10:00:06
3	Si 251.611†	238.9	-29.7	-5.6471	µg/L	-5.6471	ppb	10:00:06
3	Sn 189.927†	-289.5	-346.9	-4.0444	µg/L	-4.0444	ppb	10:00:06
3	Ti 334.940†	-4893.4	-4987.5	0.4434	µg/L	0.4434	ppb	09:59:46
3	Tl 190.801†	-34.1	-12.0	-5.0983	µg/L	-5.0983	ppb	10:00:06
3	U 367.007†	3528.8	3409.5	57.40	µg/L	57.40	ppb	09:59:46
3	V 292.402†	6.7	-68.4	0.7384	µg/L	0.7384	ppb	10:00:06
3	Zn 213.857†	2140.3	1682.8	-1.5659	µg/L	-1.5659	ppb	10:00:06

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	508291.3	89.666	%	0.5458				0.61%
Sc RADIAL	6029.9	93.7	%	0.41				0.43%
Y 371.029	450541.8	86.512	%	0.5006				0.58%
Ag 328.068†	-7923.0	0.9626	µg/L	0.48059	0.9626	ppb	0.48059	49.93%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	470147.8	491490	µg/L	2070.5	491490	ppb	2070.5	0.42%
QC value within limits for Al 396.153Radial Recovery = 98.30%								
As 188.979†	-30.4	-7.5669	µg/L	8.31506	-7.5669	ppb	8.31506	109.89%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	803.5	8.7971	µg/L	0.89723	8.7971	ppb	0.89723	10.20%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	400.7	0.2981	µg/L	0.10122	0.2981	ppb	0.10122	33.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-9450.3	0.1508	µg/L	0.08448	0.1508	ppb	0.08448	56.02%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	495376.3	476700	µg/L	1409.9	476700	ppb	1409.9	0.30%
QC value within limits for Ca 317.933Radial Recovery = 95.34%								
Cd 226.502†	1168.9	0.2457	µg/L	0.21441	0.2457	ppb	0.21441	87.26%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	0.6	-0.8164	µg/L	0.53529	-0.8164	ppb	0.53529	65.57%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†             -769.8     -0.0957 µg/L       0.64084     -0.0957 ppb        0.64084 669.40%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -1416.6      1.5761 µg/L       0.28223      1.5761 ppb        0.28223  17.91%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†    175492.0      188630 µg/L         436.1      188630 ppb          436.1   0.23%
   QC value within limits for Fe 238.204 Radial  Recovery = 94.31%
K 766.490 Radial†        125.6      2.1763 µg/L      40.31305      2.1763 ppb       40.31305 >999.9%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†        60302.3      473430 µg/L        2192.2      473430 ppb         2192.2   0.46%
   QC value within limits for Mg 279.077 IEC  Recovery = 94.69%
Mn 257.610†              127.8     -0.5441 µg/L       0.08528     -0.5441 ppb        0.08528  15.67%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -66.2      0.0172 µg/L       0.13725      0.0172 ppb        0.13725 798.99%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         5.9      34.620 µg/L       37.2467      34.620 ppb        37.2467 107.59%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†             -188.4     -1.8069 µg/L       0.03169     -1.8069 ppb        0.03169   1.75%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                47.1      41.352 µg/L       14.3279      41.352 ppb        14.3279  34.65%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†             1103.8      0.1683 µg/L       6.62784      0.1683 ppb        6.62784 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          40.1      40.488 µg/L       34.4579      40.488 ppb        34.4579  85.11%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               47.2     -9.4167 µg/L       6.75568     -9.4167 ppb        6.75568  71.74%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -87.9      36.302 µg/L       23.0174      36.302 ppb        23.0174  63.41%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -261.8     -10.412 µg/L        3.8118     -10.412 ppb         3.8118  36.61%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              -18.0     -5.1074 µg/L       0.47238     -5.1074 ppb        0.47238   9.25%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -357.8     -7.4222 µg/L       4.04240     -7.4222 ppb        4.04240  54.46%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              151.5     -0.0949 µg/L       0.48252     -0.0949 ppb        0.48252 508.38%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†            -5042.2      0.2962 µg/L       0.22712      0.2962 ppb        0.22712  76.67%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -15.0     -6.6081 µg/L       2.12291     -6.6081 ppb        2.12291  32.13%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†              3366.8       42.20 µg/L        14.558       42.20 ppb         14.558  34.49%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -62.7      0.7877 µg/L       0.15907      0.7877 ppb        0.15907  20.19%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             1693.4     -1.4611 µg/L       0.28510     -1.4611 ppb        0.28510  19.51%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 13 **Autosampler Location: 104**
Sample ID: ICSAB **Date Collected: 11/5/2013 10:00:14**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5996.6	5996.6	93.2	%			10:00:48
1	Al 396.153Radial†	437803.3	469925.0	491210	µg/L	491210	ppb	10:00:42
1	Ca 317.933Radial†	458651.0	492071.7	473520	µg/L	473520	ppb	10:00:42
1	Fe 238.204 Radial†	162268.9	174069.6	187110	µg/L	187110	ppb	10:00:42
1	K 766.490 Radial†	6632.5	6454.8	5497.2	µg/L	5497.2	ppb	10:00:48
1	Mg 279.077 IEC†	56039.6	60120.5	472000	µg/L	472000	ppb	10:00:48
1	Na 589.592 Radial†	635.7	865.1	5112.0	µg/L	5112.0	ppb	10:00:48
1	Sr 421.552†	31247.9	34414.2	503.31	µg/L	503.31	ppb	10:00:48
1	Sc 361.383	516706.0	516706.0	91.151	%			10:01:15
1	Y 371.029	458037.2	458037.2	87.951	%			10:01:15
1	Ag 328.068†	27909.1	30865.5	270.27	µg/L	270.27	ppb	10:01:15
1	As 188.979†	521.7	584.8	503.43	µg/L	503.43	ppb	10:01:35
1	B 249.677†	14650.9	15847.3	511.24	µg/L	511.24	ppb	10:01:15
1	Ba 233.527†	42239.9	46394.8	489.10	µg/L	489.10	ppb	10:01:15
1	Be 313.107†	406879.4	451888.3	247.18	µg/L	247.18	ppb	10:01:15
1	Cd 226.502†	26860.0	29626.1	460.82	µg/L	460.82	ppb	10:01:35
1	Co 228.616†	13455.5	14877.2	443.60	µg/L	443.60	ppb	10:01:35
1	Cr 267.716†	19291.9	21083.7	468.76	µg/L	468.76	ppb	10:01:35
1	Cu 324.752†	93491.0	100212.5	536.79	µg/L	536.79	ppb	10:01:15
1	Mn 257.610†	260329.7	285207.7	469.72	µg/L	469.72	ppb	10:01:15
1	Mo 202.031†	3760.5	4114.3	494.63	µg/L	494.63	ppb	10:01:35
1	Ni 231.604†	10517.4	11651.8	442.04	µg/L	442.04	ppb	10:01:35
1	P 214.914†	2492.6	2680.2	2519.9	µg/L	2519.9	ppb	10:01:35
1	Pb 220.353†	3351.5	3506.1	476.39	µg/L	476.39	ppb	10:01:35
1	S 181.975 Axial†	947.3	987.0	2642.8	µg/L	2642.8	ppb	10:01:35
1	Sb 206.836†	958.3	987.6	485.17	µg/L	485.17	ppb	10:01:35
1	Se 196.026†	966.9	1111.0	2323.0	µg/L	2323.0	ppb	10:01:35
1	SiO2†	75677.4	81834.9	10433	µg/L	10433	ppb	10:01:15
1	Si 251.611†	78639.2	85976.7	4850.0	µg/L	4850.0	ppb	10:01:15
1	Sn 189.927†	1117.1	1202.5	471.88	µg/L	471.88	ppb	10:01:35
1	Ti 334.940†	166772.1	183448.6	515.61	µg/L	515.61	ppb	10:01:15
1	Tl 190.801†	794.3	897.6	452.79	µg/L	452.79	ppb	10:01:35
1	U 367.007†	4871.0	4806.2	531.8	µg/L	531.8	ppb	10:01:15
1	V 292.402†	46136.0	50539.0	520.16	µg/L	520.16	ppb	10:01:15
1	Zn 213.857†	33613.3	36165.3	464.20	µg/L	464.20	ppb	10:01:35
2	Sc RADIAL	6003.3	6003.3	93.3	%			10:00:58
2	Al 396.153Radial†	440464.5	472255.1	493650	µg/L	493650	ppb	10:00:53
2	Ca 317.933Radial†	461831.1	494933.1	476280	µg/L	476280	ppb	10:00:53
2	Fe 238.204 Radial†	163428.9	175119.3	188230	µg/L	188230	ppb	10:00:53
2	K 766.490 Radial†	6642.9	6458.1	5499.5	µg/L	5499.5	ppb	10:00:58
2	Mg 279.077 IEC†	55853.5	59854.1	469910	µg/L	469910	ppb	10:00:58
2	Na 589.592 Radial†	660.1	890.5	5262.1	µg/L	5262.1	ppb	10:00:58
2	Sr 421.552†	31205.1	34331.0	502.08	µg/L	502.08	ppb	10:00:58
2	Sc 361.383	513170.6	513170.6	90.527	%			10:01:41
2	Y 371.029	455327.8	455327.8	87.431	%			10:01:41
2	Ag 328.068†	27861.5	31023.7	271.68	µg/L	271.68	ppb	10:01:41
2	As 188.979†	518.0	584.6	503.42	µg/L	503.42	ppb	10:02:01
2	B 249.677†	14509.2	15801.5	509.59	µg/L	509.59	ppb	10:01:41
2	Ba 233.527†	42066.4	46522.4	490.43	µg/L	490.43	ppb	10:01:41
2	Be 313.107†	404789.9	452655.4	247.62	µg/L	247.62	ppb	10:01:41
2	Cd 226.502†	26745.0	29702.0	461.93	µg/L	461.93	ppb	10:02:01
2	Co 228.616†	13415.0	14934.1	445.29	µg/L	445.29	ppb	10:02:01
2	Cr 267.716†	19278.7	21215.1	471.55	µg/L	471.55	ppb	10:02:01
2	Cu 324.752†	93289.5	100696.5	539.40	µg/L	539.40	ppb	10:01:41
2	Mn 257.610†	259310.6	286049.6	471.28	µg/L	471.28	ppb	10:01:41
2	Mo 202.031†	3738.2	4118.0	495.13	µg/L	495.13	ppb	10:02:01
2	Ni 231.604†	10485.1	11695.5	443.71	µg/L	443.71	ppb	10:02:01
2	P 214.914†	2488.0	2694.0	2532.7	µg/L	2532.7	ppb	10:02:01
2	Pb 220.353†	3317.8	3494.2	473.02	µg/L	473.02	ppb	10:02:01

2	S 181.975 Axial†	917.9	961.7	2573.2	µg/L	2573.2 ppb	10:02:01
2	Sb 206.836†	946.0	981.2	481.56	µg/L	481.56 ppb	10:02:01
2	Se 196.026†	965.0	1116.3	2333.9	µg/L	2333.9 ppb	10:02:01
2	SiO2†	75389.5	82088.9	10465	µg/L	10465 ppb	10:01:41
2	Si 251.611†	78262.3	86154.8	4860.5	µg/L	4860.5 ppb	10:01:41
2	Sn 189.927†	1119.8	1213.8	476.23	µg/L	476.23 ppb	10:02:01
2	Ti 334.940†	166013.1	183870.7	516.88	µg/L	516.88 ppb	10:01:41
2	Tl 190.801†	794.1	903.4	455.67	µg/L	455.67 ppb	10:02:01
2	U 367.007†	4869.4	4841.3	537.0	µg/L	537.0 ppb	10:01:41
2	V 292.402†	45733.2	50442.8	519.22	µg/L	519.22 ppb	10:01:41
2	Zn 213.857†	33507.5	36302.5	465.95	µg/L	465.95 ppb	10:02:01
3	Sc RADIAL	6042.6	6042.6	93.9	%		10:01:08
3	Al 396.153Radial†	439991.8	468680.3	489910	µg/L	489910 ppb	10:01:03
3	Ca 317.933Radial†	462398.3	492316.5	473760	µg/L	473760 ppb	10:01:03
3	Fe 238.204 Radial†	163648.7	174213.8	187260	µg/L	187260 ppb	10:01:03
3	K 766.490 Radial†	6712.8	6486.2	5524.8	µg/L	5524.8 ppb	10:01:08
3	Mg 279.077 IEC†	56111.4	59739.4	469010	µg/L	469010 ppb	10:01:08
3	Na 589.592 Radial†	635.7	859.9	5081.5	µg/L	5081.5 ppb	10:01:08
3	Sr 421.552†	31177.4	34084.0	498.46	µg/L	498.46 ppb	10:01:08
3	Sc 361.383	513177.6	513177.6	90.528	%		10:02:07
3	Y 371.029	455097.7	455097.7	87.387	%		10:02:07
3	Ag 328.068†	27686.6	30830.1	270.06	µg/L	270.06 ppb	10:02:07
3	As 188.979†	524.1	591.3	508.90	µg/L	508.90 ppb	10:02:27
3	B 249.677†	14505.6	15797.3	509.53	µg/L	509.53 ppb	10:02:07
3	Ba 233.527†	42032.7	46484.6	490.05	µg/L	490.05 ppb	10:02:07
3	Be 313.107†	404730.3	452583.5	247.56	µg/L	247.56 ppb	10:02:07
3	Cd 226.502†	26844.7	29811.8	463.81	µg/L	463.81 ppb	10:02:27
3	Co 228.616†	13455.2	14978.3	446.62	µg/L	446.62 ppb	10:02:27
3	Cr 267.716†	19352.9	21296.7	473.25	µg/L	473.25 ppb	10:02:27
3	Cu 324.752†	93302.5	100709.5	539.42	µg/L	539.42 ppb	10:02:07
3	Mn 257.610†	259316.3	286052.0	471.24	µg/L	471.24 ppb	10:02:07
3	Mo 202.031†	3755.5	4137.1	497.34	µg/L	497.34 ppb	10:02:27
3	Ni 231.604†	10502.3	11714.4	444.40	µg/L	444.40 ppb	10:02:27
3	P 214.914†	2512.8	2721.4	2558.2	µg/L	2558.2 ppb	10:02:27
3	Pb 220.353†	3331.9	3509.7	477.80	µg/L	477.80 ppb	10:02:27
3	S 181.975 Axial†	936.5	982.2	2629.8	µg/L	2629.8 ppb	10:02:27
3	Sb 206.836†	961.5	998.3	490.81	µg/L	490.81 ppb	10:02:27
3	Se 196.026†	984.3	1137.6	2373.4	µg/L	2373.4 ppb	10:02:27
3	SiO2†	75306.0	81995.4	10453	µg/L	10453 ppb	10:02:07
3	Si 251.611†	78226.2	86113.7	4857.7	µg/L	4857.7 ppb	10:02:07
3	Sn 189.927†	1087.2	1177.8	464.55	µg/L	464.55 ppb	10:02:27
3	Ti 334.940†	165727.5	183552.7	515.92	µg/L	515.92 ppb	10:02:07
3	Tl 190.801†	791.5	900.5	454.21	µg/L	454.21 ppb	10:02:27
3	U 367.007†	4876.8	4849.3	545.2	µg/L	545.2 ppb	10:02:07
3	V 292.402†	45740.3	50450.0	519.32	µg/L	519.32 ppb	10:02:07
3	Zn 213.857†	33626.6	36433.6	467.84	µg/L	467.84 ppb	10:02:27

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	514351.4	90.736	%	0.3597				0.40%
Sc RADIAL	6014.2	93.5	%	0.39				0.41%
Y 371.029	456154.2	87.590	%	0.3139				0.36%
Ag 328.068†	30906.5	270.67	µg/L	0.880	270.67	ppb	0.880	0.32%
QC value within limits for Ag 328.068 Recovery = 108.27%								
Al 396.153Radial†	470286.8	491590	µg/L	1897.1	491590	ppb	1897.1	0.39%
QC value within limits for Al 396.153Radial Recovery = 98.32%								
As 188.979†	586.9	505.25	µg/L	3.163	505.25	ppb	3.163	0.63%
QC value within limits for As 188.979 Recovery = 101.05%								
B 249.677†	15815.4	510.12	µg/L	0.969	510.12	ppb	0.969	0.19%
QC value within limits for B 249.677 Recovery = 102.02%								
Ba 233.527†	46467.2	489.86	µg/L	0.685	489.86	ppb	0.685	0.14%
QC value within limits for Ba 233.527 Recovery = 97.97%								
Be 313.107†	452375.7	247.45	µg/L	0.239	247.45	ppb	0.239	0.10%
QC value within limits for Be 313.107 Recovery = 98.98%								
Ca 317.933Radial†	493107.1	474520	µg/L	1526.8	474520	ppb	1526.8	0.32%
QC value within limits for Ca 317.933Radial Recovery = 94.90%								
Cd 226.502†	29713.3	462.19	µg/L	1.510	462.19	ppb	1.510	0.33%
QC value within limits for Cd 226.502 Recovery = 92.44%								
Co 228.616†	14929.9	445.17	µg/L	1.516	445.17	ppb	1.516	0.34%

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   QC value within limits for Co 228.616  Recovery = 89.03%
Cr 267.716†            21198.5      471.18 µg/L         2.267      471.18 ppb          2.267   0.48%
   QC value within limits for Cr 267.716  Recovery = 94.24%
Cu 324.752†           100539.5      538.54 µg/L         1.512      538.54 ppb          1.512   0.28%
   QC value within limits for Cu 324.752  Recovery = 107.71%
Fe 238.204 Radial†    174467.6      187530 µg/L         611.6      187530 ppb          611.6   0.33%
   QC value within limits for Fe 238.204 Radial  Recovery = 93.77%
K 766.490 Radial†       6466.4      5507.1 µg/L         15.31      5507.1 ppb          15.31   0.28%
   QC value within limits for K 766.490 Radial  Recovery = 110.14%
Mg 279.077 IEC†        59904.7      470310 µg/L        1535.2      470310 ppb         1535.2   0.33%
   QC value within limits for Mg 279.077 IEC  Recovery = 94.06%
Mn 257.610†           285769.8      470.75 µg/L         0.887      470.75 ppb          0.887   0.19%
   QC value within limits for Mn 257.610  Recovery = 94.15%
Mo 202.031†             4123.1      495.70 µg/L         1.439      495.70 ppb          1.439   0.29%
   QC value within limits for Mo 202.031  Recovery = 99.14%
Na 589.592 Radial†       871.9      5151.9 µg/L         96.66      5151.9 ppb          96.66   1.88%
   QC value within limits for Na 589.592 Radial  Recovery = 103.04%
Ni 231.604†            11687.2      443.38 µg/L         1.210      443.38 ppb          1.210   0.27%
   QC value within limits for Ni 231.604  Recovery = 88.68%
P 214.914†              2698.5      2537.0 µg/L         19.50      2537.0 ppb          19.50   0.77%
   QC value within limits for P 214.914  Recovery = 101.48%
Pb 220.353†             3503.3      475.74 µg/L         2.454      475.74 ppb          2.454   0.52%
   QC value within limits for Pb 220.353  Recovery = 95.15%
S 181.975 Axial†         977.0      2615.2 µg/L         37.00      2615.2 ppb          37.00   1.41%
   QC value within limits for S 181.975 Axial  Recovery = 104.61%
Sb 206.836†              989.1      485.85 µg/L         4.660      485.85 ppb          4.660   0.96%
   QC value within limits for Sb 206.836  Recovery = 97.17%
Se 196.026†             1121.7      2343.4 µg/L         26.56      2343.4 ppb          26.56   1.13%
   QC value within limits for Se 196.026  Recovery = 93.74%
SiO2†                  81973.1       10450 µg/L          16.6       10450 ppb           16.6   0.16%
   QC value within limits for SiO2  Recovery = 97.71%
Si 251.611†            86081.8      4856.0 µg/L          5.44      4856.0 ppb          5.44   0.11%
   QC value within limits for Si 251.611  Recovery = 97.12%
Sn 189.927†             1198.1      470.89 µg/L         5.906      470.89 ppb          5.906   1.25%
   QC value within limits for Sn 189.927  Recovery = 94.18%
Sr 421.552†            34276.4      501.28 µg/L         2.522      501.28 ppb          2.522   0.50%
   QC value within limits for Sr 421.552  Recovery = 100.26%
Ti 334.940†           183624.0      516.13 µg/L         0.664      516.13 ppb          0.664   0.13%
   QC value within limits for Ti 334.940  Recovery = 103.23%
Tl 190.801†              900.5      454.22 µg/L         1.435      454.22 ppb          1.435   0.32%
   QC value within limits for Tl 190.801  Recovery = 90.84%
U 367.007†              4832.3       538.0 µg/L          6.80       538.0 ppb           6.80   1.26%
   QC value within limits for U 367.007  Recovery = 107.60%
V 292.402†             50477.3      519.57 µg/L         0.521      519.57 ppb          0.521   0.10%
   QC value within limits for V 292.402  Recovery = 103.91%
Zn 213.857†            36300.5      466.00 µg/L         1.820      466.00 ppb          1.820   0.39%
   QC value within limits for Zn 213.857  Recovery = 93.20%
All analyte(s) passed QC.
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Sequence No.: 14 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 10:02:35**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6380.3	6380.3	99.2	%			10:03:25
1	Al 396.153Radial†	4719.8	4935.0	5113.0	µg/L	5113.0	ppb	10:03:05
1	Ca 317.933Radial†	5258.0	5255.5	5057.4	µg/L	5057.4	ppb	10:03:25
1	Fe 238.204 Radial†	4806.4	4807.0	5171.6	µg/L	5171.6	ppb	10:03:25
1	K 766.490 Radial†	6632.4	6026.8	5228.6	µg/L	5228.6	ppb	10:03:05
1	Mg 279.077 IEC†	673.9	671.3	5270.4	µg/L	5270.4	ppb	10:03:25
1	Na 589.592 Radial†	1527.9	1723.8	10186	µg/L	10186	ppb	10:03:05
1	Sr 421.552†	33407.7	34576.1	507.97	µg/L	507.97	ppb	10:03:05
1	Sc 361.383	582175.9	582175.9	102.70	%			10:04:22
1	Y 371.029	518663.2	518663.2	99.593	%			10:04:22
1	Ag 328.068†	75123.1	73394.7	508.73	µg/L	508.73	ppb	10:04:27
1	As 188.979†	595.2	591.9	492.44	µg/L	492.44	ppb	10:04:48
1	B 249.677†	15285.4	14657.6	488.83	µg/L	488.83	ppb	10:04:27
1	Ba 233.527†	47983.4	46775.9	496.93	µg/L	496.93	ppb	10:04:27
1	Be 313.107†	947534.2	928129.0	496.91	µg/L	496.91	ppb	10:04:22
1	Cd 226.502†	31170.3	30509.1	493.12	µg/L	493.12	ppb	10:04:27
1	Co 228.616†	16971.4	16640.5	497.13	µg/L	497.13	ppb	10:04:27
1	Cr 267.716†	23763.7	23057.9	495.02	µg/L	495.02	ppb	10:04:27
1	Cu 324.752†	100309.3	95317.0	502.27	µg/L	502.27	ppb	10:04:27
1	Mn 257.610†	307130.9	298660.2	493.01	µg/L	493.01	ppb	10:04:27
1	Mo 202.031†	4361.8	4235.8	501.44	µg/L	501.44	ppb	10:04:48
1	Ni 231.604†	13519.2	13277.0	497.91	µg/L	497.91	ppb	10:04:27
1	P 214.914†	2747.9	2621.3	2464.0	µg/L	2464.0	ppb	10:04:48
1	Pb 220.353†	2779.1	2535.2	500.35	µg/L	500.35	ppb	10:04:48
1	S 181.975 Axial†	423.6	360.2	995.04	µg/L	995.04	ppb	10:04:48
1	Sb 206.836†	1020.1	929.5	487.83	µg/L	487.83	ppb	10:04:48
1	Se 196.026†	206.6	251.5	488.85	µg/L	488.85	ppb	10:04:48
1	SiO2†	43820.3	41478.7	5239.1	µg/L	5239.1	ppb	10:04:27
1	Si 251.611†	44845.2	43369.2	2419.8	µg/L	2419.8	ppb	10:04:27
1	Sn 189.927†	1676.0	1608.9	495.61	µg/L	495.61	ppb	10:04:48
1	Ti 334.940†	188726.0	184249.7	503.96	µg/L	503.96	ppb	10:04:27
1	Tl 190.801†	1005.0	1004.8	505.46	µg/L	505.46	ppb	10:04:48
1	U 367.007†	2045.2	1453.8	457.6	µg/L	457.6	ppb	10:04:27
1	V 292.402†	50101.3	48708.1	500.38	µg/L	500.38	ppb	10:04:27
1	Zn 213.857†	38322.1	36603.3	493.57	µg/L	493.57	ppb	10:04:27
2	Sc RADIAL	6438.9	6438.9	100	%			10:03:50
2	Al 396.153Radial†	4686.4	4858.3	5032.7	µg/L	5032.7	ppb	10:03:30
2	Ca 317.933Radial†	5298.7	5247.9	5050.0	µg/L	5050.0	ppb	10:03:50
2	Fe 238.204 Radial†	4818.0	4774.4	5136.7	µg/L	5136.7	ppb	10:03:50
2	K 766.490 Radial†	6643.6	5977.1	5185.3	µg/L	5185.3	ppb	10:03:30
2	Mg 279.077 IEC†	672.7	663.9	5212.2	µg/L	5212.2	ppb	10:03:50
2	Na 589.592 Radial†	1580.5	1762.4	10414	µg/L	10414	ppb	10:03:30
2	Sr 421.552†	33577.9	34439.3	505.96	µg/L	505.96	ppb	10:03:30
2	Sc 361.383	578187.0	578187.0	102.00	%			10:04:53
2	Y 371.029	515558.1	515558.1	98.996	%			10:04:53
2	Ag 328.068†	74994.7	73773.5	511.35	µg/L	511.35	ppb	10:04:58
2	As 188.979†	585.3	586.2	487.74	µg/L	487.74	ppb	10:05:18
2	B 249.677†	15270.8	14745.9	491.81	µg/L	491.81	ppb	10:04:58
2	Ba 233.527†	47810.5	46928.7	498.56	µg/L	498.56	ppb	10:04:58
2	Be 313.107†	946527.9	933507.6	499.79	µg/L	499.79	ppb	10:04:53
2	Cd 226.502†	31101.7	30651.3	495.42	µg/L	495.42	ppb	10:04:58
2	Co 228.616†	17021.0	16803.2	501.98	µg/L	501.98	ppb	10:04:58
2	Cr 267.716†	23782.8	23236.3	498.85	µg/L	498.85	ppb	10:04:58
2	Cu 324.752†	100244.1	95927.0	505.49	µg/L	505.49	ppb	10:04:58
2	Mn 257.610†	306581.4	300184.7	495.52	µg/L	495.52	ppb	10:04:58
2	Mo 202.031†	4311.1	4215.4	499.03	µg/L	499.03	ppb	10:05:18
2	Ni 231.604†	13538.4	13386.7	502.02	µg/L	502.02	ppb	10:04:58
2	P 214.914†	2717.8	2610.3	2453.6	µg/L	2453.6	ppb	10:05:18
2	Pb 220.353†	2769.3	2544.3	502.19	µg/L	502.19	ppb	10:05:18

2	S 181.975 Axial†	415.1	354.7	979.96 µg/L	979.96 ppb	10:05:18
2	Sb 206.836†	1014.1	930.5	488.25 µg/L	488.25 ppb	10:05:18
2	Se 196.026†	215.5	261.6	508.11 µg/L	508.11 ppb	10:05:18
2	SiO2†	43661.8	41617.7	5258.1 µg/L	5258.1 ppb	10:04:58
2	Si 251.611†	44851.3	43676.4	2437.9 µg/L	2437.9 ppb	10:04:58
2	Sn 189.927†	1655.2	1599.8	492.83 µg/L	492.83 ppb	10:05:18
2	Ti 334.940†	188604.4	185398.3	507.10 µg/L	507.10 ppb	10:04:58
2	Tl 190.801†	986.7	993.5	499.85 µg/L	499.85 ppb	10:05:18
2	U 367.007†	2054.1	1476.2	465.2 µg/L	465.2 ppb	10:04:58
2	V 292.402†	50181.7	49123.5	504.58 µg/L	504.58 ppb	10:04:58
2	Zn 213.857†	38295.2	36834.3	496.69 µg/L	496.69 ppb	10:04:58
3	Sc RADIAL	6418.6	6418.6	99.8 %		10:04:15
3	Al 396.153Radial†	4729.4	4916.1	5093.1 µg/L	5093.1 ppb	10:03:55
3	Ca 317.933Radial†	5275.7	5241.5	5043.9 µg/L	5043.9 ppb	10:04:15
3	Fe 238.204 Radial†	4823.4	4795.1	5158.9 µg/L	5158.9 ppb	10:04:15
3	K 766.490 Radial†	6561.1	5915.3	5131.6 µg/L	5131.6 ppb	10:03:55
3	Mg 279.077 IEC†	669.5	662.8	5203.7 µg/L	5203.7 ppb	10:04:15
3	Na 589.592 Radial†	1556.4	1743.2	10301 µg/L	10301 ppb	10:03:55
3	Sr 421.552†	33634.0	34601.5	508.35 µg/L	508.35 ppb	10:03:55
3	Sc 361.383	576068.4	576068.4	101.62 %		10:05:24
3	Y 371.029	513808.3	513808.3	98.660 %		10:05:24
3	Ag 328.068†	74938.9	73989.0	512.84 µg/L	512.84 ppb	10:05:29
3	As 188.979†	584.1	587.1	488.51 µg/L	488.51 ppb	10:05:49
3	B 249.677†	15213.4	14744.5	491.79 µg/L	491.79 ppb	10:05:29
3	Ba 233.527†	47924.5	47213.3	501.58 µg/L	501.58 ppb	10:05:29
3	Be 313.107†	937942.3	928472.0	497.09 µg/L	497.09 ppb	10:05:24
3	Cd 226.502†	30986.9	30650.5	495.41 µg/L	495.41 ppb	10:05:29
3	Co 228.616†	16945.6	16790.3	501.60 µg/L	501.60 ppb	10:05:29
3	Cr 267.716†	23751.8	23291.5	500.04 µg/L	500.04 ppb	10:05:29
3	Cu 324.752†	100356.4	96398.9	507.97 µg/L	507.97 ppb	10:05:29
3	Mn 257.610†	306785.2	301490.7	497.68 µg/L	497.68 ppb	10:05:29
3	Mo 202.031†	4292.2	4212.3	498.66 µg/L	498.66 ppb	10:05:49
3	Ni 231.604†	13534.7	13431.9	503.72 µg/L	503.72 ppb	10:05:29
3	P 214.914†	2681.4	2584.2	2429.0 µg/L	2429.0 ppb	10:05:49
3	Pb 220.353†	2732.0	2517.6	496.88 µg/L	496.88 ppb	10:05:49
3	S 181.975 Axial†	418.4	359.4	993.02 µg/L	993.02 ppb	10:05:49
3	Sb 206.836†	1015.7	935.8	491.00 µg/L	491.00 ppb	10:05:49
3	Se 196.026†	214.9	261.8	508.45 µg/L	508.45 ppb	10:05:49
3	SiO2†	43721.1	41833.5	5287.0 µg/L	5287.0 ppb	10:05:29
3	Si 251.611†	44781.2	43769.1	2443.8 µg/L	2443.8 ppb	10:05:29
3	Sn 189.927†	1659.7	1610.1	496.00 µg/L	496.00 ppb	10:05:49
3	Ti 334.940†	188798.0	186268.9	509.48 µg/L	509.48 ppb	10:05:29
3	Tl 190.801†	975.3	985.9	496.05 µg/L	496.05 ppb	10:05:49
3	U 367.007†	2014.2	1444.4	454.5 µg/L	454.5 ppb	10:05:29
3	V 292.402†	50112.9	49236.8	505.71 µg/L	505.71 ppb	10:05:29
3	Zn 213.857†	38213.4	36891.9	497.46 µg/L	497.46 ppb	10:05:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	578810.4	102.11	%	0.547				0.54%
Sc RADIAL	6412.6	99.7	%	0.46				0.46%
Y 371.029	516009.9	99.083	%	0.4721				0.48%
Ag 328.068†	73719.1	510.97	µg/L	2.082	510.97	ppb	2.082	0.41%
QC value within limits for Ag 328.068 Recovery = 102.19%								
Al 396.153Radial†	4903.1	5079.6	µg/L	41.86	5079.6	ppb	41.86	0.82%
QC value within limits for Al 396.153Radial Recovery = 101.59%								
As 188.979†	588.4	489.56	µg/L	2.522	489.56	ppb	2.522	0.52%
QC value within limits for As 188.979 Recovery = 97.91%								
B 249.677†	14716.0	490.81	µg/L	1.717	490.81	ppb	1.717	0.35%
QC value within limits for B 249.677 Recovery = 98.16%								
Ba 233.527†	46972.6	499.02	µg/L	2.359	499.02	ppb	2.359	0.47%
QC value within limits for Ba 233.527 Recovery = 99.80%								
Be 313.107†	930036.2	497.93	µg/L	1.613	497.93	ppb	1.613	0.32%
QC value within limits for Be 313.107 Recovery = 99.59%								
Ca 317.933Radial†	5248.3	5050.4	µg/L	6.76	5050.4	ppb	6.76	0.13%
QC value within limits for Ca 317.933Radial Recovery = 101.01%								
Cd 226.502†	30603.6	494.65	µg/L	1.327	494.65	ppb	1.327	0.27%
QC value within limits for Cd 226.502 Recovery = 98.93%								
Co 228.616†	16744.7	500.24	µg/L	2.696	500.24	ppb	2.696	0.54%

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   QC value within limits for Co 228.616  Recovery = 100.05%
Cr 267.716†            23195.2      497.97 µg/L         2.621      497.97 ppb          2.621   0.53%
   QC value within limits for Cr 267.716  Recovery = 99.59%
Cu 324.752†            95881.0      505.24 µg/L         2.857      505.24 ppb          2.857   0.57%
   QC value within limits for Cu 324.752  Recovery = 101.05%
Fe 238.204 Radial†      4792.2      5155.7 µg/L         17.66      5155.7 ppb          17.66   0.34%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.11%
K 766.490 Radial†       5973.1      5181.8 µg/L         48.58      5181.8 ppb          48.58   0.94%
   QC value within limits for K 766.490 Radial  Recovery = 103.64%
Mg 279.077 IEC†          666.0      5228.8 µg/L         36.29      5228.8 ppb          36.29   0.69%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.58%
Mn 257.610†           300111.9      495.40 µg/L         2.338      495.40 ppb          2.338   0.47%
   QC value within limits for Mn 257.610  Recovery = 99.08%
Mo 202.031†             4221.2      499.71 µg/L         1.509      499.71 ppb          1.509   0.30%
   QC value within limits for Mo 202.031  Recovery = 99.94%
Na 589.592 Radial†      1743.2       10300 µg/L         113.8       10300 ppb          113.8   1.11%
   QC value within limits for Na 589.592 Radial  Recovery = 103.00%
Ni 231.604†            13365.2      501.22 µg/L         2.987      501.22 ppb          2.987   0.60%
   QC value within limits for Ni 231.604  Recovery = 100.24%
P 214.914†              2605.3      2448.9 µg/L         18.00      2448.9 ppb          18.00   0.74%
   QC value within limits for P 214.914  Recovery = 97.95%
Pb 220.353†             2532.4      499.81 µg/L         2.698      499.81 ppb          2.698   0.54%
   QC value within limits for Pb 220.353  Recovery = 99.96%
S 181.975 Axial†         358.1      989.34 µg/L         8.188      989.34 ppb          8.188   0.83%
   QC value within limits for S 181.975 Axial  Recovery = 98.93%
Sb 206.836†              932.0      489.03 µg/L         1.720      489.03 ppb          1.720   0.35%
   QC value within limits for Sb 206.836  Recovery = 97.81%
Se 196.026†              258.3      501.80 µg/L        11.218      501.80 ppb         11.218   2.24%
   QC value within limits for Se 196.026  Recovery = 100.36%
SiO2†                  41643.3      5261.4 µg/L         24.13      5261.4 ppb          24.13   0.46%
   QC value within limits for SiO2  Recovery = 98.39%
Si 251.611†            43604.9      2433.8 µg/L         12.48      2433.8 ppb          12.48   0.51%
   QC value within limits for Si 251.611  Recovery = 97.35%
Sn 189.927†             1606.2      494.82 µg/L         1.729      494.82 ppb          1.729   0.35%
   QC value within limits for Sn 189.927  Recovery = 98.96%
Sr 421.552†            34539.0      507.43 µg/L         1.281      507.43 ppb          1.281   0.25%
   QC value within limits for Sr 421.552  Recovery = 101.49%
Ti 334.940†           185305.7      506.84 µg/L         2.771      506.84 ppb          2.771   0.55%
   QC value within limits for Ti 334.940  Recovery = 101.37%
Tl 190.801†              994.7      500.45 µg/L         4.737      500.45 ppb          4.737   0.95%
   QC value within limits for Tl 190.801  Recovery = 100.09%
U 367.007†              1458.1       459.1 µg/L          5.51       459.1 ppb           5.51   1.20%
   QC value within limits for U 367.007  Recovery = 91.82%
V 292.402†             49022.8      503.56 µg/L         2.807      503.56 ppb          2.807   0.56%
   QC value within limits for V 292.402  Recovery = 100.71%
Zn 213.857†            36776.5      495.91 µg/L         2.057      495.91 ppb          2.057   0.41%
   QC value within limits for Zn 213.857  Recovery = 99.18%
All analyte(s) passed QC.
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Sequence No.: 15 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 10:05:57**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6220.8	6220.8	96.7	%			10:06:25
1	Al 396.153Radial†	-146.8	23.5	24.562	µg/L	24.562	ppb	10:06:25
1	Ca 317.933Radial†	46.2	0.9	0.8438	µg/L	0.8438	ppb	10:06:45
1	Fe 238.204 Radial†	35.5	-3.3	-3.5348	µg/L	-3.5348	ppb	10:06:45
1	K 766.490 Radial†	661.3	22.4	19.387	µg/L	19.387	ppb	10:06:25
1	Mg 279.077 IEC†	14.5	6.6	52.155	µg/L	52.155	ppb	10:06:45
1	Na 589.592 Radial†	-163.0	14.5	85.631	µg/L	85.631	ppb	10:06:25
1	Sr 421.552†	-881.8	-25.9	-0.3809	µg/L	-0.3809	ppb	10:06:25
1	Sc 361.383	548901.7	548901.7	96.830	%			10:07:42
1	Y 371.029	504267.1	504267.1	96.828	%			10:07:42
1	Ag 328.068†	-200.5	39.7	0.2715	µg/L	0.2715	ppb	10:07:42
1	As 188.979†	-14.1	-2.2	-1.7914	µg/L	-1.7914	ppb	10:08:02
1	B 249.677†	244.6	26.6	0.8865	µg/L	0.8865	ppb	10:07:42
1	Ba 233.527†	-66.1	-14.1	-0.1502	µg/L	-0.1502	ppb	10:08:02
1	Be 313.107†	-5283.7	51.7	0.0278	µg/L	0.0278	ppb	10:07:42
1	Cd 226.502†	-145.7	8.0	0.1294	µg/L	0.1294	ppb	10:08:02
1	Co 228.616†	-109.9	1.8	0.0559	µg/L	0.0559	ppb	10:08:02
1	Cr 267.716†	114.6	37.3	0.8033	µg/L	0.8033	ppb	10:07:42
1	Cu 324.752†	2364.3	86.9	0.4569	µg/L	0.4569	ppb	10:07:42
1	Mn 257.610†	439.7	58.8	0.0950	µg/L	0.0950	ppb	10:07:42
1	Mo 202.031†	16.2	5.4	0.6392	µg/L	0.6392	ppb	10:08:02
1	Ni 231.604†	-117.7	-8.3	-0.3104	µg/L	-0.3104	ppb	10:08:02
1	P 214.914†	51.0	-1.7	-1.5898	µg/L	-1.5898	ppb	10:08:02
1	Pb 220.353†	163.9	-1.5	-0.3135	µg/L	-0.3135	ppb	10:08:02
1	S 181.975 Axial†	49.4	-1.3	-3.4454	µg/L	-3.4454	ppb	10:08:02
1	Sb 206.836†	63.4	1.7	0.9081	µg/L	0.9081	ppb	10:08:02
1	Se 196.026†	-40.7	8.2	15.678	µg/L	15.678	ppb	10:08:02
1	SiO2†	1224.8	75.5	9.2841	µg/L	9.2841	ppb	10:07:42
1	Si 251.611†	289.9	2.5	-0.0767	µg/L	-0.0767	ppb	10:08:02
1	Sn 189.927†	30.4	8.4	2.5584	µg/L	2.5584	ppb	10:08:02
1	Ti 334.940†	-465.9	4.8	0.0127	µg/L	0.0127	ppb	10:07:42
1	Tl 190.801†	-26.4	-1.0	-0.5165	µg/L	-0.5165	ppb	10:08:02
1	U 367.007†	519.7	-1.0	-0.304	µg/L	-0.304	ppb	10:07:42
1	V 292.402†	65.5	-8.2	-0.0740	µg/L	-0.0740	ppb	10:07:42
1	Zn 213.857†	712.1	24.2	0.3306	µg/L	0.3306	ppb	10:08:02
2	Sc RADIAL	6182.1	6182.1	96.1	%			10:06:50
2	Al 396.153Radial†	-149.6	19.6	20.505	µg/L	20.505	ppb	10:06:50
2	Ca 317.933Radial†	41.6	-3.6	-3.4330	µg/L	-3.4330	ppb	10:07:10
2	Fe 238.204 Radial†	38.4	-0.1	-0.0600	µg/L	-0.0600	ppb	10:07:10
2	K 766.490 Radial†	754.4	123.5	107.34	µg/L	107.34	ppb	10:06:50
2	Mg 279.077 IEC†	3.6	-4.6	-36.026	µg/L	-36.026	ppb	10:07:10
2	Na 589.592 Radial†	-178.5	-2.7	-15.835	µg/L	-15.835	ppb	10:06:50
2	Sr 421.552†	-843.5	8.2	0.1207	µg/L	0.1207	ppb	10:06:50
2	Sc 361.383	546546.2	546546.2	96.415	%			10:08:07
2	Y 371.029	502252.8	502252.8	96.442	%			10:08:07
2	Ag 328.068†	-157.2	83.8	0.5763	µg/L	0.5763	ppb	10:08:07
2	As 188.979†	-14.6	-2.8	-2.2892	µg/L	-2.2892	ppb	10:08:27
2	B 249.677†	293.5	78.4	2.5833	µg/L	2.5833	ppb	10:08:07
2	Ba 233.527†	-82.0	-30.9	-0.3278	µg/L	-0.3278	ppb	10:08:27
2	Be 313.107†	-5239.7	73.7	0.0395	µg/L	0.0395	ppb	10:08:07
2	Cd 226.502†	-152.4	0.4	0.0065	µg/L	0.0065	ppb	10:08:27
2	Co 228.616†	-99.4	12.3	0.3681	µg/L	0.3681	ppb	10:08:27
2	Cr 267.716†	88.7	11.0	0.2363	µg/L	0.2363	ppb	10:08:07
2	Cu 324.752†	2401.9	136.4	0.7180	µg/L	0.7180	ppb	10:08:07
2	Mn 257.610†	375.7	-5.6	-0.0080	µg/L	-0.0080	ppb	10:08:07
2	Mo 202.031†	14.4	3.6	0.4293	µg/L	0.4293	ppb	10:08:27
2	Ni 231.604†	-104.2	5.2	0.1937	µg/L	0.1937	ppb	10:08:27
2	P 214.914†	50.0	-2.5	-2.3574	µg/L	-2.3574	ppb	10:08:27
2	Pb 220.353†	177.8	13.6	2.6831	µg/L	2.6831	ppb	10:08:27

2	S 181.975 Axial†	55.0	4.8	13.192	µg/L	13.192	ppb	10:08:27
2	Sb 206.836†	58.9	-2.6	-1.3872	µg/L	-1.3872	ppb	10:08:27
2	Se 196.026†	-48.5	-0.0	-0.0751	µg/L	-0.0751	ppb	10:08:27
2	SiO2†	1230.3	86.6	8.6743	µg/L	8.6743	ppb	10:08:07
2	Si 251.611†	291.7	5.7	-0.8138	µg/L	-0.8138	ppb	10:08:27
2	Sn 189.927†	21.6	-0.7	-0.1986	µg/L	-0.1986	ppb	10:08:27
2	Ti 334.940†	-480.2	-12.1	-0.0332	µg/L	-0.0332	ppb	10:08:07
2	Tl 190.801†	-34.6	-9.7	-4.8495	µg/L	-4.8495	ppb	10:08:27
2	U 367.007†	518.6	0.2	0.060	µg/L	0.060	ppb	10:08:07
2	V 292.402†	84.6	11.8	0.1256	µg/L	0.1256	ppb	10:08:07
2	Zn 213.857†	707.4	22.5	0.3042	µg/L	0.3042	ppb	10:08:27
3	Sc RADIAL	6170.7	6170.7	95.9	%			10:07:15
3	Al 396.153Radial†	-139.4	30.0	31.258	µg/L	31.258	ppb	10:07:15
3	Ca 317.933Radial†	46.8	1.8	1.7629	µg/L	1.7629	ppb	10:07:35
3	Fe 238.204 Radial†	36.4	-2.1	-2.2001	µg/L	-2.2001	ppb	10:07:35
3	K 766.490 Radial†	667.1	33.9	29.418	µg/L	29.418	ppb	10:07:15
3	Mg 279.077 IEC†	7.5	-0.5	-3.5998	µg/L	-3.5998	ppb	10:07:35
3	Na 589.592 Radial†	-163.6	12.5	73.834	µg/L	73.834	ppb	10:07:15
3	Sr 421.552†	-835.0	15.5	0.2274	µg/L	0.2274	ppb	10:07:15
3	Sc 361.383	551160.1	551160.1	97.229	%			10:08:33
3	Y 371.029	506746.1	506746.1	97.304	%			10:08:33
3	Ag 328.068†	-289.5	-50.9	-0.3449	µg/L	-0.3449	ppb	10:08:33
3	As 188.979†	-11.9	0.1	0.1007	µg/L	0.1007	ppb	10:08:53
3	B 249.677†	315.7	98.8	3.3036	µg/L	3.3036	ppb	10:08:33
3	Ba 233.527†	-75.8	-23.8	-0.2518	µg/L	-0.2518	ppb	10:08:53
3	Be 313.107†	-5411.0	-56.9	-0.0316	µg/L	-0.0316	ppb	10:08:33
3	Cd 226.502†	-143.2	11.1	0.1805	µg/L	0.1805	ppb	10:08:53
3	Co 228.616†	-89.3	23.5	0.7046	µg/L	0.7046	ppb	10:08:53
3	Cr 267.716†	110.4	32.6	0.7040	µg/L	0.7040	ppb	10:08:33
3	Cu 324.752†	2399.3	112.8	0.5900	µg/L	0.5900	ppb	10:08:33
3	Mn 257.610†	394.6	10.6	0.0175	µg/L	0.0175	ppb	10:08:33
3	Mo 202.031†	17.4	6.6	0.7822	µg/L	0.7822	ppb	10:08:53
3	Ni 231.604†	-105.2	5.1	0.1894	µg/L	0.1894	ppb	10:08:53
3	P 214.914†	54.2	1.4	1.2876	µg/L	1.2876	ppb	10:08:53
3	Pb 220.353†	178.7	13.0	2.5526	µg/L	2.5526	ppb	10:08:53
3	S 181.975 Axial†	50.1	-0.8	-2.0837	µg/L	-2.0837	ppb	10:08:53
3	Sb 206.836†	56.8	-5.3	-2.8181	µg/L	-2.8181	ppb	10:08:53
3	Se 196.026†	-42.1	7.0	13.316	µg/L	13.316	ppb	10:08:53
3	SiO2†	1188.2	32.6	3.4978	µg/L	3.4978	ppb	10:08:33
3	Si 251.611†	290.6	1.9	-0.2110	µg/L	-0.2110	ppb	10:08:53
3	Sn 189.927†	19.0	-3.6	-1.0932	µg/L	-1.0932	ppb	10:08:53
3	Ti 334.940†	-564.1	-94.2	-0.2550	µg/L	-0.2550	ppb	10:08:33
3	Tl 190.801†	-31.4	-6.1	-3.0470	µg/L	-3.0470	ppb	10:08:53
3	U 367.007†	504.4	-18.9	-6.282	µg/L	-6.282	ppb	10:08:33
3	V 292.402†	150.3	78.7	0.8034	µg/L	0.8034	ppb	10:08:33
3	Zn 213.857†	687.3	-4.3	-0.0603	µg/L	-0.0603	ppb	10:08:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	548869.3	96.825	%	0.4070				0.42%
Sc RADIAL	6191.2	96.2	%	0.41				0.42%
Y 371.029	504422.0	96.858	%	0.4322				0.45%
Ag 328.068†	24.2	0.1677	µg/L	0.46930	0.1677	ppb	0.46930	279.93%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	24.4	25.442	µg/L	5.4299	25.442	ppb	5.4299	21.34%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.6	-1.3266	µg/L	1.26091	-1.3266	ppb	1.26091	95.05%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	67.9	2.2578	µg/L	1.24097	2.2578	ppb	1.24097	54.96%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-23.0	-0.2432	µg/L	0.08912	-0.2432	ppb	0.08912	36.64%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	22.8	0.0119	µg/L	0.03811	0.0119	ppb	0.03811	320.68%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-0.3	-0.2754	µg/L	2.77289	-0.2754	ppb	2.77289	>999.9%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	6.5	0.1055	µg/L	0.08942	0.1055	ppb	0.08942	84.76%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	12.6	0.3762	µg/L	0.32447	0.3762	ppb	0.32447	86.25%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                27.0      0.5812 µg/L       0.30281      0.5812 ppb        0.30281  52.10%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               112.0      0.5883 µg/L       0.13055      0.5883 ppb        0.13055  22.19%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -1.8     -1.9316 µg/L       1.75291     -1.9316 ppb        1.75291  90.75%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          59.9      52.047 µg/L       48.1442      52.047 ppb        48.1442  92.50%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.5      4.1766 µg/L      44.60195      4.1766 ppb       44.60195 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                21.3      0.0348 µg/L       0.05363      0.0348 ppb        0.05363 153.93%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 5.2      0.6169 µg/L       0.17751      0.6169 ppb        0.17751  28.77%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          8.1      47.877 µg/L       55.4905      47.877 ppb        55.4905 115.90%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 0.7      0.0242 µg/L       0.28982      0.0242 ppb        0.28982 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -0.9     -0.8865 µg/L       1.92157     -0.8865 ppb        1.92157 216.75%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 8.4      1.6407 µg/L       1.69365      1.6407 ppb        1.69365 103.22%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            0.9      2.5544 µg/L       9.23788      2.5544 ppb        9.23788 361.64%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -2.1     -1.0991 µg/L       1.87977     -1.0991 ppb        1.87977 171.04%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 5.1      9.6397 µg/L       8.49581      9.6397 ppb        8.49581  88.13%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      64.9      7.1521 µg/L       3.17934      7.1521 ppb        3.17934  44.45%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                 3.4     -0.3671 µg/L       0.39256     -0.3671 ppb        0.39256 106.92%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 1.4      0.4222 µg/L       1.90329      0.4222 ppb        1.90329 450.80%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                -0.7     -0.0109 µg/L       0.32483     -0.0109 ppb        0.32483 >999.9%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -33.8     -0.0918 µg/L       0.14318     -0.0918 ppb        0.14318 155.90%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -5.6     -2.8043 µg/L       2.17669     -2.8043 ppb        2.17669  77.62%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 -6.6      -2.176 µg/L        3.5611      -2.176 ppb         3.5611 163.68%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 27.5      0.2850 µg/L       0.45989      0.2850 ppb        0.45989 161.36%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                14.1      0.1915 µg/L       0.21846      0.1915 ppb        0.21846 114.08%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 19 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 10:18:16**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6222.2	6222.2	96.7	%			10:19:08
1	Al 396.153Radial†	4650.4	4984.2	5164.1	µg/L	5164.1	ppb	10:18:48
1	Ca 317.933Radial†	5104.6	5231.7	5034.4	µg/L	5034.4	ppb	10:19:08
1	Fe 238.204 Radial†	4662.7	4781.6	5144.4	µg/L	5144.4	ppb	10:19:08
1	K 766.490 Radial†	6351.3	5906.1	5123.5	µg/L	5123.5	ppb	10:18:48
1	Mg 279.077 IEC†	651.1	665.0	5221.0	µg/L	5221.0	ppb	10:19:08
1	Na 589.592 Radial†	1522.2	1757.2	10383	µg/L	10383	ppb	10:18:48
1	Sr 421.552†	33077.8	35091.1	515.54	µg/L	515.54	ppb	10:18:48
1	Sc 361.383	572201.3	572201.3	100.94	%			10:20:05
1	Y 371.029	511673.5	511673.5	98.250	%			10:20:05
1	Ag 328.068†	74733.1	74283.5	514.88	µg/L	514.88	ppb	10:20:10
1	As 188.979†	591.8	598.7	498.10	µg/L	498.10	ppb	10:20:30
1	B 249.677†	15049.4	14683.2	489.74	µg/L	489.74	ppb	10:20:10
1	Ba 233.527†	47691.7	47301.4	502.52	µg/L	502.52	ppb	10:20:10
1	Be 313.107†	938280.6	935044.8	500.61	µg/L	500.61	ppb	10:20:05
1	Cd 226.502†	30832.1	30703.2	496.26	µg/L	496.26	ppb	10:20:10
1	Co 228.616†	16830.8	16789.4	501.57	µg/L	501.57	ppb	10:20:10
1	Cr 267.716†	23665.2	23363.6	501.59	µg/L	501.59	ppb	10:20:10
1	Cu 324.752†	99860.8	96575.4	508.90	µg/L	508.90	ppb	10:20:10
1	Mn 257.610†	304951.2	301714.0	498.04	µg/L	498.04	ppb	10:20:10
1	Mo 202.031†	4320.1	4268.5	505.31	µg/L	505.31	ppb	10:20:30
1	Ni 231.604†	13471.1	13458.8	504.73	µg/L	504.73	ppb	10:20:10
1	P 214.914†	2711.1	2631.5	2473.6	µg/L	2473.6	ppb	10:20:30
1	Pb 220.353†	2726.4	2530.2	499.35	µg/L	499.35	ppb	10:20:30
1	S 181.975 Axial†	400.9	344.9	953.37	µg/L	953.37	ppb	10:20:30
1	Sb 206.836†	1005.7	932.6	489.37	µg/L	489.37	ppb	10:20:30
1	Se 196.026†	210.8	259.2	503.43	µg/L	503.43	ppb	10:20:30
1	SiO2†	43494.0	41899.2	5295.8	µg/L	5295.8	ppb	10:20:10
1	Si 251.611†	44486.7	43775.2	2444.1	µg/L	2444.1	ppb	10:20:10
1	Sn 189.927†	1647.4	1609.0	495.66	µg/L	495.66	ppb	10:20:30
1	Ti 334.940†	188102.3	186835.3	511.03	µg/L	511.03	ppb	10:20:10
1	Tl 190.801†	985.4	1002.4	504.33	µg/L	504.33	ppb	10:20:30
1	U 367.007†	2015.3	1458.8	459.4	µg/L	459.4	ppb	10:20:10
1	V 292.402†	50009.3	49467.4	508.13	µg/L	508.13	ppb	10:20:10
1	Zn 213.857†	37894.4	36830.0	496.62	µg/L	496.62	ppb	10:20:10
2	Sc RADIAL	6299.7	6299.7	97.9	%			10:19:33
2	Al 396.153Radial†	4664.6	4939.5	5117.0	µg/L	5117.0	ppb	10:19:13
2	Ca 317.933Radial†	5182.6	5246.4	5048.6	µg/L	5048.6	ppb	10:19:33
2	Fe 238.204 Radial†	4741.6	4802.8	5167.3	µg/L	5167.3	ppb	10:19:33
2	K 766.490 Radial†	6362.0	5836.2	5062.6	µg/L	5062.6	ppb	10:19:13
2	Mg 279.077 IEC†	656.2	661.9	5196.4	µg/L	5196.4	ppb	10:19:33
2	Na 589.592 Radial†	1564.9	1781.3	10526	µg/L	10526	ppb	10:19:13
2	Sr 421.552†	33195.3	34790.2	511.12	µg/L	511.12	ppb	10:19:13
2	Sc 361.383	567783.8	567783.8	100.16	%			10:20:36
2	Y 371.029	507045.3	507045.3	97.362	%			10:20:36
2	Ag 328.068†	74670.3	74796.8	518.42	µg/L	518.42	ppb	10:20:41
2	As 188.979†	577.0	588.4	489.59	µg/L	489.59	ppb	10:21:01
2	B 249.677†	15094.9	14844.6	495.18	µg/L	495.18	ppb	10:20:41
2	Ba 233.527†	47719.8	47697.1	506.72	µg/L	506.72	ppb	10:20:41
2	Be 313.107†	931327.8	935335.1	500.77	µg/L	500.77	ppb	10:20:36
2	Cd 226.502†	30889.1	30997.8	501.03	µg/L	501.03	ppb	10:20:41
2	Co 228.616†	16839.8	16928.0	505.72	µg/L	505.72	ppb	10:20:41
2	Cr 267.716†	23730.8	23611.5	506.90	µg/L	506.90	ppb	10:20:41
2	Cu 324.752†	99738.9	97223.3	512.31	µg/L	512.31	ppb	10:20:41
2	Mn 257.610†	304934.8	304048.1	501.90	µg/L	501.90	ppb	10:20:41
2	Mo 202.031†	4324.0	4305.7	509.71	µg/L	509.71	ppb	10:21:01
2	Ni 231.604†	13473.9	13565.4	508.73	µg/L	508.73	ppb	10:20:41
2	P 214.914†	2692.5	2633.8	2475.7	µg/L	2475.7	ppb	10:21:01
2	Pb 220.353†	2746.8	2571.5	507.56	µg/L	507.56	ppb	10:21:01

2	S 181.975 Axial†	407.5	354.6	979.83 µg/L	979.83 ppb	10:21:01
2	Sb 206.836†	1032.1	966.7	507.35 µg/L	507.35 ppb	10:21:01
2	Se 196.026†	213.0	263.0	510.73 µg/L	510.73 ppb	10:21:01
2	SiO2†	43473.6	42214.1	5338.0 µg/L	5338.0 ppb	10:20:41
2	Si 251.611†	44459.6	44091.0	2462.8 µg/L	2462.8 ppb	10:20:41
2	Sn 189.927†	1652.9	1627.2	501.26 µg/L	501.26 ppb	10:21:01
2	Ti 334.940†	188068.4	188251.2	514.90 µg/L	514.90 ppb	10:20:41
2	Tl 190.801†	993.3	1017.9	512.07 µg/L	512.07 ppb	10:21:01
2	U 367.007†	2026.5	1485.5	468.2 µg/L	468.2 ppb	10:20:41
2	V 292.402†	49874.9	49718.6	510.74 µg/L	510.74 ppb	10:20:41
2	Zn 213.857†	37908.5	37136.2	500.75 µg/L	500.75 ppb	10:20:41
3	Sc RADIAL	6264.1	6264.1	97.4 %		10:19:58
3	Al 396.153Radial†	4683.8	4986.4	5166.1 µg/L	5166.1 ppb	10:19:38
3	Ca 317.933Radial†	5174.6	5268.2	5069.5 µg/L	5069.5 ppb	10:19:58
3	Fe 238.204 Radial†	4736.3	4824.9	5191.0 µg/L	5191.0 ppb	10:19:58
3	K 766.490 Radial†	6574.6	6091.5	5284.4 µg/L	5284.4 ppb	10:19:38
3	Mg 279.077 IEC†	666.1	675.9	5306.3 µg/L	5306.3 ppb	10:19:58
3	Na 589.592 Radial†	1598.4	1824.9	10783 µg/L	10783 ppb	10:19:38
3	Sr 421.552†	33578.5	35376.5	519.73 µg/L	519.73 ppb	10:19:38
3	Sc 361.383	571896.4	571896.4	100.89 %		10:21:07
3	Y 371.029	510915.5	510915.5	98.105 %		10:21:07
3	Ag 328.068†	74820.5	74409.6	515.75 µg/L	515.75 ppb	10:21:12
3	As 188.979†	585.3	592.6	493.00 µg/L	493.00 ppb	10:21:32
3	B 249.677†	15142.2	14783.2	493.01 µg/L	493.01 ppb	10:21:12
3	Ba 233.527†	47771.4	47405.6	503.62 µg/L	503.62 ppb	10:21:12
3	Be 313.107†	930220.8	927551.4	496.60 µg/L	496.60 ppb	10:21:07
3	Cd 226.502†	30835.3	30722.6	496.57 µg/L	496.57 ppb	10:21:12
3	Co 228.616†	16903.8	16870.6	504.01 µg/L	504.01 ppb	10:21:12
3	Cr 267.716†	23700.3	23410.9	502.60 µg/L	502.60 ppb	10:21:12
3	Cu 324.752†	99873.9	96641.1	509.25 µg/L	509.25 ppb	10:21:12
3	Mn 257.610†	305173.4	302095.3	498.67 µg/L	498.67 ppb	10:21:12
3	Mo 202.031†	4333.5	4284.1	507.16 µg/L	507.16 ppb	10:21:32
3	Ni 231.604†	13479.5	13474.3	505.31 µg/L	505.31 ppb	10:21:12
3	P 214.914†	2716.3	2638.0	2479.7 µg/L	2479.7 ppb	10:21:32
3	Pb 220.353†	2732.3	2537.5	500.80 µg/L	500.80 ppb	10:21:32
3	S 181.975 Axial†	416.3	360.4	995.66 µg/L	995.66 ppb	10:21:32
3	Sb 206.836†	1021.3	948.6	497.82 µg/L	497.82 ppb	10:21:32
3	Se 196.026†	224.7	273.0	529.96 µg/L	529.96 ppb	10:21:32
3	SiO2†	43432.9	41861.7	5287.5 µg/L	5287.5 ppb	10:21:12
3	Si 251.611†	44533.6	43845.2	2446.4 µg/L	2446.4 ppb	10:21:12
3	Sn 189.927†	1662.2	1624.6	500.44 µg/L	500.44 ppb	10:21:32
3	Ti 334.940†	188010.4	186843.6	511.05 µg/L	511.05 ppb	10:21:12
3	Tl 190.801†	982.8	1000.4	503.31 µg/L	503.31 ppb	10:21:32
3	U 367.007†	2051.3	1495.6	471.4 µg/L	471.4 ppb	10:21:12
3	V 292.402†	49971.5	49456.3	508.05 µg/L	508.05 ppb	10:21:12
3	Zn 213.857†	38012.3	36966.9	498.47 µg/L	498.47 ppb	10:21:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	570627.2	100.66	%	0.435				0.43%
Sc RADIAL	6262.0	97.3	%	0.60				0.62%
Y 371.029	509878.1	97.906	%	0.4767				0.49%
Ag 328.068†	74496.7	516.35	µg/L	1.848	516.35	ppb	1.848	0.36%
QC value within limits for Ag 328.068 Recovery = 103.27%								
Al 396.153Radial†	4970.0	5149.1	µg/L	27.80	5149.1	ppb	27.80	0.54%
QC value within limits for Al 396.153Radial Recovery = 102.98%								
As 188.979†	593.2	493.56	µg/L	4.287	493.56	ppb	4.287	0.87%
QC value within limits for As 188.979 Recovery = 98.71%								
B 249.677†	14770.3	492.64	µg/L	2.742	492.64	ppb	2.742	0.56%
QC value within limits for B 249.677 Recovery = 98.53%								
Ba 233.527†	47468.0	504.29	µg/L	2.178	504.29	ppb	2.178	0.43%
QC value within limits for Ba 233.527 Recovery = 100.86%								
Be 313.107†	932643.8	499.32	µg/L	2.360	499.32	ppb	2.360	0.47%
QC value within limits for Be 313.107 Recovery = 99.86%								
Ca 317.933Radial†	5248.7	5050.8	µg/L	17.67	5050.8	ppb	17.67	0.35%
QC value within limits for Ca 317.933Radial Recovery = 101.02%								
Cd 226.502†	30807.9	497.96	µg/L	2.665	497.96	ppb	2.665	0.54%
QC value within limits for Cd 226.502 Recovery = 99.59%								
Co 228.616†	16862.7	503.77	µg/L	2.081	503.77	ppb	2.081	0.41%

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   QC value within limits for Co 228.616  Recovery = 100.75%
Cr 267.716†            23462.0      503.69 µg/L         2.824      503.69 ppb          2.824   0.56%
   QC value within limits for Cr 267.716  Recovery = 100.74%
Cu 324.752†            96813.3      510.15 µg/L         1.879      510.15 ppb          1.879   0.37%
   QC value within limits for Cu 324.752  Recovery = 102.03%
Fe 238.204 Radial†      4803.1      5167.5 µg/L         23.30      5167.5 ppb          23.30   0.45%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.35%
K 766.490 Radial†       5944.6      5156.9 µg/L        114.59      5156.9 ppb         114.59   2.22%
   QC value within limits for K 766.490 Radial  Recovery = 103.14%
Mg 279.077 IEC†          667.6      5241.2 µg/L         57.66      5241.2 ppb          57.66   1.10%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.82%
Mn 257.610†           302619.1      499.54 µg/L         2.067      499.54 ppb          2.067   0.41%
   QC value within limits for Mn 257.610  Recovery = 99.91%
Mo 202.031†             4286.1      507.39 µg/L         2.212      507.39 ppb          2.212   0.44%
   QC value within limits for Mo 202.031  Recovery = 101.48%
Na 589.592 Radial†      1787.8       10564 µg/L         202.8       10564 ppb          202.8   1.92%
   QC value within limits for Na 589.592 Radial  Recovery = 105.64%
Ni 231.604†            13499.5      506.25 µg/L         2.161      506.25 ppb          2.161   0.43%
   QC value within limits for Ni 231.604  Recovery = 101.25%
P 214.914†              2634.5      2476.3 µg/L          3.11      2476.3 ppb           3.11   0.13%
   QC value within limits for P 214.914  Recovery = 99.05%
Pb 220.353†             2546.4      502.57 µg/L         4.383      502.57 ppb          4.383   0.87%
   QC value within limits for Pb 220.353  Recovery = 100.51%
S 181.975 Axial†         353.3      976.29 µg/L        21.362      976.29 ppb         21.362   2.19%
   QC value within limits for S 181.975 Axial  Recovery = 97.63%
Sb 206.836†              949.3      498.18 µg/L         8.998      498.18 ppb          8.998   1.81%
   QC value within limits for Sb 206.836  Recovery = 99.64%
Se 196.026†              265.1      514.71 µg/L        13.707      514.71 ppb         13.707   2.66%
   QC value within limits for Se 196.026  Recovery = 102.94%
SiO2†                  41991.7      5307.1 µg/L         27.09      5307.1 ppb          27.09   0.51%
   QC value within limits for SiO2  Recovery = 99.24%
Si 251.611†            43903.8      2451.1 µg/L         10.18      2451.1 ppb          10.18   0.42%
   QC value within limits for Si 251.611  Recovery = 98.04%
Sn 189.927†             1620.2      499.12 µg/L         3.027      499.12 ppb          3.027   0.61%
   QC value within limits for Sn 189.927  Recovery = 99.82%
Sr 421.552†            35085.9      515.46 µg/L         4.308      515.46 ppb          4.308   0.84%
   QC value within limits for Sr 421.552  Recovery = 103.09%
Ti 334.940†           187310.0      512.32 µg/L         2.229      512.32 ppb          2.229   0.44%
   QC value within limits for Ti 334.940  Recovery = 102.46%
Tl 190.801†             1006.9      506.57 µg/L         4.793      506.57 ppb          4.793   0.95%
   QC value within limits for Tl 190.801  Recovery = 101.31%
U 367.007†              1480.0       466.3 µg/L          6.20       466.3 ppb           6.20   1.33%
   QC value within limits for U 367.007  Recovery = 93.27%
V 292.402†             49547.4      508.98 µg/L         1.532      508.98 ppb          1.532   0.30%
   QC value within limits for V 292.402  Recovery = 101.80%
Zn 213.857†            36977.7      498.61 µg/L         2.070      498.61 ppb          2.070   0.42%
   QC value within limits for Zn 213.857  Recovery = 99.72%
All analyte(s) passed QC.
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Sequence No.: 20 **Autosampler Location: 109**
Sample ID: PQL **Date Collected: 11/5/2013 10:21:40**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6335.6	6335.6	98.5	%			10:22:11
1	Al 396.153Radial†	23.5	199.1	207.56	µg/L	207.56	ppb	10:22:11
1	Ca 317.933Radial†	257.1	214.2	206.09	µg/L	206.09	ppb	10:22:31
1	Fe 238.204 Radial†	135.5	97.6	104.93	µg/L	104.93	ppb	10:22:31
1	K 766.490 Radial†	927.1	279.8	243.01	µg/L	243.01	ppb	10:22:11
1	Mg 279.077 IEC†	44.5	36.9	289.64	µg/L	289.64	ppb	10:22:31
1	Na 589.592 Radial†	-128.0	53.1	313.80	µg/L	313.80	ppb	10:22:11
1	Sr 421.552†	-540.9	336.8	4.9473	µg/L	4.9473	ppb	10:22:11
1	Sc 361.383	557722.4	557722.4	98.387	%			10:23:28
1	Y 371.029	509982.2	509982.2	97.926	%			10:23:28
1	Ag 328.068†	609.1	865.9	6.0167	µg/L	6.0167	ppb	10:23:28
1	As 188.979†	4.6	17.1	14.172	µg/L	14.172	ppb	10:23:48
1	B 249.677†	1736.8	1539.3	51.588	µg/L	51.588	ppb	10:23:28
1	Ba 233.527†	390.0	450.5	4.7868	µg/L	4.7868	ppb	10:23:48
1	Be 313.107†	4092.4	9667.8	5.1821	µg/L	5.1821	ppb	10:23:28
1	Cd 226.502†	138.2	298.9	4.8253	µg/L	4.8253	ppb	10:23:48
1	Co 228.616†	56.4	172.7	5.1661	µg/L	5.1661	ppb	10:23:48
1	Cr 267.716†	299.8	223.7	4.7923	µg/L	4.7923	ppb	10:23:28
1	Cu 324.752†	4209.3	1923.6	10.146	µg/L	10.146	ppb	10:23:28
1	Mn 257.610†	6879.7	6597.2	10.883	µg/L	10.883	ppb	10:23:28
1	Mo 202.031†	89.0	79.2	9.3713	µg/L	9.3713	ppb	10:23:48
1	Ni 231.604†	34.2	148.1	5.5540	µg/L	5.5540	ppb	10:23:48
1	P 214.914†	205.5	154.5	145.81	µg/L	145.81	ppb	10:23:48
1	Pb 220.353†	206.8	39.4	7.7083	µg/L	7.7083	ppb	10:23:48
1	S 181.975 Axial†	83.7	32.8	90.072	µg/L	90.072	ppb	10:23:48
1	Sb 206.836†	83.5	21.1	11.182	µg/L	11.182	ppb	10:23:48
1	Se 196.026†	-40.2	9.4	18.211	µg/L	18.211	ppb	10:23:48
1	SiO2†	2798.6	1655.1	207.44	µg/L	207.44	ppb	10:23:28
1	Si 251.611†	1903.9	1638.2	91.023	µg/L	91.023	ppb	10:23:48
1	Sn 189.927†	46.9	24.6	7.5871	µg/L	7.5871	ppb	10:23:48
1	Ti 334.940†	1209.4	1715.2	4.6849	µg/L	4.6849	ppb	10:23:28
1	Tl 190.801†	11.7	38.1	19.132	µg/L	19.132	ppb	10:23:48
1	U 367.007†	609.6	81.9	26.69	µg/L	26.69	ppb	10:23:28
1	V 292.402†	658.6	593.6	6.1500	µg/L	6.1500	ppb	10:23:28
1	Zn 213.857†	1444.1	756.5	10.225	µg/L	10.225	ppb	10:23:48
2	Sc RADIAL	6319.8	6319.8	98.2	%			10:22:37
2	Al 396.153Radial†	59.6	236.0	246.01	µg/L	246.01	ppb	10:22:37
2	Ca 317.933Radial†	260.2	218.0	209.70	µg/L	209.70	ppb	10:22:57
2	Fe 238.204 Radial†	132.9	95.3	102.48	µg/L	102.48	ppb	10:22:57
2	K 766.490 Radial†	883.5	237.8	206.50	µg/L	206.50	ppb	10:22:37
2	Mg 279.077 IEC†	52.9	45.5	357.25	µg/L	357.25	ppb	10:22:57
2	Na 589.592 Radial†	-139.8	40.7	240.41	µg/L	240.41	ppb	10:22:37
2	Sr 421.552†	-570.6	305.2	4.4827	µg/L	4.4827	ppb	10:22:37
2	Sc 361.383	553479.9	553479.9	97.638	%			10:23:54
2	Y 371.029	506431.5	506431.5	97.244	%			10:23:54
2	Ag 328.068†	461.3	719.3	5.0007	µg/L	5.0007	ppb	10:23:54
2	As 188.979†	19.7	32.6	27.035	µg/L	27.035	ppb	10:24:14
2	B 249.677†	1655.1	1469.2	49.249	µg/L	49.249	ppb	10:23:54
2	Ba 233.527†	426.3	490.7	5.2118	µg/L	5.2118	ppb	10:24:14
2	Be 313.107†	4029.9	9635.7	5.1668	µg/L	5.1668	ppb	10:23:54
2	Cd 226.502†	161.5	323.9	5.2294	µg/L	5.2294	ppb	10:24:14
2	Co 228.616†	61.6	178.4	5.3387	µg/L	5.3387	ppb	10:24:14
2	Cr 267.716†	306.8	233.2	4.9924	µg/L	4.9924	ppb	10:23:54
2	Cu 324.752†	4253.4	2001.5	10.561	µg/L	10.561	ppb	10:23:54
2	Mn 257.610†	6784.3	6553.1	10.807	µg/L	10.807	ppb	10:23:54
2	Mo 202.031†	98.7	89.8	10.627	µg/L	10.627	ppb	10:24:14
2	Ni 231.604†	2.4	115.7	4.3401	µg/L	4.3401	ppb	10:24:14
2	P 214.914†	204.1	154.6	145.95	µg/L	145.95	ppb	10:24:14
2	Pb 220.353†	214.8	49.2	9.6395	µg/L	9.6395	ppb	10:24:14

2	S 181.975 Axial†	86.7	36.6	100.29	µg/L	100.29 ppb	10:24:14
2	Sb 206.836†	84.0	22.3	11.841	µg/L	11.841 ppb	10:24:14
2	Se 196.026†	-35.9	13.5	26.063	µg/L	26.063 ppb	10:24:14
2	SiO2†	2805.3	1683.7	212.06	µg/L	212.06 ppb	10:23:54
2	Si 251.611†	1924.6	1674.2	93.450	µg/L	93.450 ppb	10:24:14
2	Sn 189.927†	59.2	37.5	11.555	µg/L	11.555 ppb	10:24:14
2	Ti 334.940†	1318.0	1835.9	5.0105	µg/L	5.0105 ppb	10:23:54
2	Tl 190.801†	15.0	41.5	20.849	µg/L	20.849 ppb	10:24:14
2	U 367.007†	630.0	107.5	35.22	µg/L	35.22 ppb	10:23:54
2	V 292.402†	526.8	463.7	4.8560	µg/L	4.8560 ppb	10:23:54
2	Zn 213.857†	1437.6	761.2	10.295	µg/L	10.295 ppb	10:24:14
3	Sc RADIAL	6347.3	6347.3	98.6	%		10:23:02
3	Al 396.153Radial†	0.4	175.7	183.00	µg/L	183.00 ppb	10:23:02
3	Ca 317.933Radial†	257.1	213.7	205.63	µg/L	205.63 ppb	10:23:22
3	Fe 238.204 Radial†	130.4	92.2	99.100	µg/L	99.100 ppb	10:23:22
3	K 766.490 Radial†	856.6	206.7	179.37	µg/L	179.37 ppb	10:23:02
3	Mg 279.077 IEC†	52.6	45.0	353.67	µg/L	353.67 ppb	10:23:22
3	Na 589.592 Radial†	-118.4	63.1	372.59	µg/L	372.59 ppb	10:23:02
3	Sr 421.552†	-570.2	308.1	4.5262	µg/L	4.5262 ppb	10:23:02
3	Sc 361.383	555815.5	555815.5	98.050	%		10:24:19
3	Y 371.029	508654.9	508654.9	97.671	%		10:24:19
3	Ag 328.068†	589.6	848.2	5.8882	µg/L	5.8882 ppb	10:24:19
3	As 188.979†	14.2	26.9	22.310	µg/L	22.310 ppb	10:24:39
3	B 249.677†	1634.6	1441.2	48.323	µg/L	48.323 ppb	10:24:19
3	Ba 233.527†	391.0	452.9	4.8110	µg/L	4.8110 ppb	10:24:39
3	Be 313.107†	3883.1	9468.6	5.0789	µg/L	5.0789 ppb	10:24:19
3	Cd 226.502†	139.8	301.0	4.8604	µg/L	4.8604 ppb	10:24:39
3	Co 228.616†	52.3	168.7	5.0490	µg/L	5.0490 ppb	10:24:39
3	Cr 267.716†	329.2	254.8	5.4518	µg/L	5.4518 ppb	10:24:19
3	Cu 324.752†	4269.5	1999.6	10.555	µg/L	10.555 ppb	10:24:19
3	Mn 257.610†	6875.1	6616.6	10.912	µg/L	10.912 ppb	10:24:19
3	Mo 202.031†	101.5	92.2	10.918	µg/L	10.918 ppb	10:24:39
3	Ni 231.604†	21.4	135.1	5.0664	µg/L	5.0664 ppb	10:24:39
3	P 214.914†	203.0	152.7	144.10	µg/L	144.10 ppb	10:24:39
3	Pb 220.353†	198.2	31.3	6.1294	µg/L	6.1294 ppb	10:24:39
3	S 181.975 Axial†	86.0	35.4	97.224	µg/L	97.224 ppb	10:24:39
3	Sb 206.836†	84.7	22.7	12.019	µg/L	12.019 ppb	10:24:39
3	Se 196.026†	-36.6	13.0	25.118	µg/L	25.118 ppb	10:24:39
3	SiO2†	2841.1	1708.2	215.91	µg/L	215.91 ppb	10:24:19
3	Si 251.611†	1915.5	1656.7	92.731	µg/L	92.731 ppb	10:24:39
3	Sn 189.927†	55.9	34.0	10.458	µg/L	10.458 ppb	10:24:39
3	Ti 334.940†	1218.4	1728.6	4.7133	µg/L	4.7133 ppb	10:24:19
3	Tl 190.801†	11.2	37.7	18.925	µg/L	18.925 ppb	10:24:39
3	U 367.007†	653.6	129.0	42.37	µg/L	42.37 ppb	10:24:19
3	V 292.402†	580.4	516.0	5.3969	µg/L	5.3969 ppb	10:24:19
3	Zn 213.857†	1432.8	750.0	10.140	µg/L	10.140 ppb	10:24:39

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	555672.6	98.025	%	0.3748				0.38%
Sc RADIAL	6334.2	98.4	%	0.21				0.22%
Y 371.029	508356.2	97.613	%	0.3445				0.35%
Ag 328.068†	811.2	5.6352	µg/L	0.55326	5.6352	ppb	0.55326	9.82%
QC value within limits for Ag 328.068 Recovery = 112.70%								
Al 396.153Radial†	203.6	212.19	µg/L	31.761	212.19	ppb	31.761	14.97%
QC value within limits for Al 396.153Radial Recovery = 106.09%								
As 188.979†	25.5	21.172	µg/L	6.5069	21.172	ppb	6.5069	30.73%
QC value within limits for As 188.979 Recovery = 70.57%								
B 249.677†	1483.2	49.720	µg/L	1.6828	49.720	ppb	1.6828	3.38%
QC value within limits for B 249.677 Recovery = 99.44%								
Ba 233.527†	464.7	4.9366	µg/L	0.23870	4.9366	ppb	0.23870	4.84%
QC value within limits for Ba 233.527 Recovery = 98.73%								
Be 313.107†	9590.7	5.1426	µg/L	0.05570	5.1426	ppb	0.05570	1.08%
QC value within limits for Be 313.107 Recovery = 102.85%								
Ca 317.933Radial†	215.3	207.14	µg/L	2.230	207.14	ppb	2.230	1.08%
QC value within limits for Ca 317.933Radial Recovery = 103.57%								
Cd 226.502†	307.9	4.9717	µg/L	0.22387	4.9717	ppb	0.22387	4.50%
QC value within limits for Cd 226.502 Recovery = 99.43%								
Co 228.616†	173.3	5.1846	µg/L	0.14574	5.1846	ppb	0.14574	2.81%

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   QC value within limits for Co 228.616  Recovery = 103.69%
Cr 267.716†              237.2      5.0788 µg/L       0.33814      5.0788 ppb        0.33814   6.66%
   QC value within limits for Cr 267.716  Recovery = 101.58%
Cu 324.752†             1974.9      10.421 µg/L        0.2377      10.421 ppb         0.2377   2.28%
   QC value within limits for Cu 324.752  Recovery = 104.21%
Fe 238.204 Radial†        95.0      102.17 µg/L         2.926      102.17 ppb          2.926   2.86%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.17%
K 766.490 Radial†        241.4      209.63 µg/L        31.932      209.63 ppb         31.932  15.23%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 139.75%
Mg 279.077 IEC†           42.5      333.52 µg/L        38.046      333.52 ppb         38.046  11.41%
   QC value within limits for Mg 279.077 IEC  Recovery = 111.17%
Mn 257.610†             6589.0      10.867 µg/L        0.0540      10.867 ppb         0.0540   0.50%
   QC value within limits for Mn 257.610  Recovery = 108.67%
Mo 202.031†               87.1      10.305 µg/L        0.8220      10.305 ppb         0.8220   7.98%
   QC value within limits for Mo 202.031  Recovery = 103.05%
Na 589.592 Radial†        52.3      308.93 µg/L        66.225      308.93 ppb         66.225  21.44%
   QC value within limits for Na 589.592 Radial  Recovery = 102.98%
Ni 231.604†              133.0      4.9868 µg/L       0.61088      4.9868 ppb        0.61088  12.25%
   QC value within limits for Ni 231.604  Recovery = 99.74%
P 214.914†               153.9      145.29 µg/L         1.029      145.29 ppb          1.029   0.71%
   QC value within limits for P 214.914  Recovery = 96.86%
Pb 220.353†               40.0      7.8257 µg/L       1.75797      7.8257 ppb        1.75797  22.46%
   QC value within limits for Pb 220.353  Recovery = 78.26%
S 181.975 Axial†          34.9      95.862 µg/L        5.2432      95.862 ppb         5.2432   5.47%
   QC value within limits for S 181.975 Axial  Recovery = 95.86%
Sb 206.836†               22.1      11.680 µg/L        0.4411      11.680 ppb         0.4411   3.78%
   QC value within limits for Sb 206.836  Recovery = 116.80%
Se 196.026†               12.0      23.131 µg/L        4.2868      23.131 ppb         4.2868  18.53%
   QC value within limits for Se 196.026  Recovery = 77.10%
SiO2†                   1682.4      211.80 µg/L         4.242      211.80 ppb          4.242   2.00%
   QC value within limits for SiO2  Recovery = 99.44%
Si 251.611†             1656.4      92.402 µg/L        1.2470      92.402 ppb         1.2470   1.35%
   QC value within limits for Si 251.611  Recovery = 92.40%
Sn 189.927†               32.0      9.8666 µg/L       2.04897      9.8666 ppb        2.04897  20.77%
   QC value within limits for Sn 189.927  Recovery = 98.67%
Sr 421.552†              316.7      4.6521 µg/L       0.25662      4.6521 ppb        0.25662   5.52%
   QC value within limits for Sr 421.552  Recovery = 93.04%
Ti 334.940†             1759.9      4.8029 µg/L       0.18037      4.8029 ppb        0.18037   3.76%
   QC value within limits for Ti 334.940  Recovery = 96.06%
Tl 190.801†               39.1      19.635 µg/L        1.0563      19.635 ppb         1.0563   5.38%
   QC value within limits for Tl 190.801  Recovery = 98.18%
U 367.007†               106.1       34.76 µg/L         7.853       34.76 ppb          7.853  22.59%
   QC value less than the lower limit for U 367.007  Recovery = 69.52%
V 292.402†               524.4      5.4676 µg/L       0.64988      5.4676 ppb        0.64988  11.89%
   QC value within limits for V 292.402  Recovery = 109.35%
Zn 213.857†              755.9      10.220 µg/L        0.0777      10.220 ppb         0.0777   0.76%
   QC value within limits for Zn 213.857  Recovery = 102.20%
QC Failed.  Continue with analysis.
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Sequence No.: 21 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 10:24:47**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6221.9	6221.9	96.7	%			10:25:18
1	Al 396.153Radial†	-158.3	11.6	12.047	µg/L	12.047	ppb	10:25:18
1	Ca 317.933Radial†	55.4	10.3	9.9522	µg/L	9.9522	ppb	10:25:38
1	Fe 238.204 Radial†	37.3	-1.5	-1.5859	µg/L	-1.5859	ppb	10:25:38
1	K 766.490 Radial†	695.7	57.8	50.219	µg/L	50.219	ppb	10:25:18
1	Mg 279.077 IEC†	7.6	-0.5	-3.6726	µg/L	-3.6726	ppb	10:25:38
1	Na 589.592 Radial†	-184.5	-7.7	-45.523	µg/L	-45.523	ppb	10:25:18
1	Sr 421.552†	-823.0	35.0	0.5149	µg/L	0.5149	ppb	10:25:18
1	Sc 361.383	554547.5	554547.5	97.826	%			10:26:35
1	Y 371.029	508864.4	508864.4	97.711	%			10:26:35
1	Ag 328.068†	-342.5	-103.2	-0.7098	µg/L	-0.7098	ppb	10:26:35
1	As 188.979†	-7.6	4.6	3.8382	µg/L	3.8382	ppb	10:26:55
1	B 249.677†	206.2	-15.2	-0.5329	µg/L	-0.5329	ppb	10:26:35
1	Ba 233.527†	-66.6	-13.9	-0.1476	µg/L	-0.1476	ppb	10:26:55
1	Be 313.107†	-5345.0	44.5	0.0259	µg/L	0.0259	ppb	10:26:35
1	Cd 226.502†	-153.0	2.0	0.0328	µg/L	0.0328	ppb	10:26:55
1	Co 228.616†	-109.3	3.6	0.1096	µg/L	0.1096	ppb	10:26:55
1	Cr 267.716†	134.0	56.0	1.1981	µg/L	1.1981	ppb	10:26:35
1	Cu 324.752†	2265.4	-39.1	-0.2017	µg/L	-0.2017	ppb	10:26:35
1	Mn 257.610†	448.0	62.7	0.1036	µg/L	0.1036	ppb	10:26:35
1	Mo 202.031†	21.5	10.7	1.2613	µg/L	1.2613	ppb	10:26:55
1	Ni 231.604†	-96.5	14.6	0.5487	µg/L	0.5487	ppb	10:26:55
1	P 214.914†	50.0	-3.2	-3.0214	µg/L	-3.0214	ppb	10:26:55
1	Pb 220.353†	161.3	-5.9	-1.1766	µg/L	-1.1766	ppb	10:26:55
1	S 181.975 Axial†	50.2	-1.0	-2.5897	µg/L	-2.5897	ppb	10:26:55
1	Sb 206.836†	46.7	-16.0	-8.4827	µg/L	-8.4827	ppb	10:26:55
1	Se 196.026†	-56.0	-7.0	-13.217	µg/L	-13.217	ppb	10:26:55
1	SiO2†	1151.0	-12.8	-2.6427	µg/L	-2.6427	ppb	10:26:35
1	Si 251.611†	287.9	-2.6	-0.6987	µg/L	-0.6987	ppb	10:26:55
1	Sn 189.927†	21.2	-1.4	-0.4331	µg/L	-0.4331	ppb	10:26:55
1	Ti 334.940†	-427.8	48.7	0.1293	µg/L	0.1293	ppb	10:26:35
1	Tl 190.801†	-34.0	-8.6	-4.2849	µg/L	-4.2849	ppb	10:26:55
1	U 367.007†	550.6	25.1	8.372	µg/L	8.372	ppb	10:26:35
1	V 292.402†	69.3	-5.1	-0.0270	µg/L	-0.0270	ppb	10:26:35
1	Zn 213.857†	699.7	4.0	0.0523	µg/L	0.0523	ppb	10:26:55
2	Sc RADIAL	6262.0	6262.0	97.3	%			10:25:43
2	Al 396.153Radial†	-189.7	-19.6	-20.497	µg/L	-20.497	ppb	10:25:43
2	Ca 317.933Radial†	46.2	0.6	0.5387	µg/L	0.5387	ppb	10:26:03
2	Fe 238.204 Radial†	35.4	-3.7	-3.9569	µg/L	-3.9569	ppb	10:26:03
2	K 766.490 Radial†	663.2	19.8	17.242	µg/L	17.242	ppb	10:25:43
2	Mg 279.077 IEC†	3.5	-4.7	-37.141	µg/L	-37.141	ppb	10:26:03
2	Na 589.592 Radial†	-178.3	-0.2	-1.1439	µg/L	-1.1439	ppb	10:25:43
2	Sr 421.552†	-863.8	-1.4	-0.0205	µg/L	-0.0205	ppb	10:25:43
2	Sc 361.383	555649.6	555649.6	98.021	%			10:27:01
2	Y 371.029	509888.6	509888.6	97.908	%			10:27:01
2	Ag 328.068†	-292.4	-51.5	-0.3511	µg/L	-0.3511	ppb	10:27:01
2	As 188.979†	-15.5	-3.4	-2.8576	µg/L	-2.8576	ppb	10:27:21
2	B 249.677†	310.8	91.1	3.0493	µg/L	3.0493	ppb	10:27:01
2	Ba 233.527†	-64.6	-11.7	-0.1238	µg/L	-0.1238	ppb	10:27:21
2	Be 313.107†	-5364.4	35.5	0.0212	µg/L	0.0212	ppb	10:27:01
2	Cd 226.502†	-146.7	8.7	0.1416	µg/L	0.1416	ppb	10:27:21
2	Co 228.616†	-98.7	14.7	0.4397	µg/L	0.4397	ppb	10:27:21
2	Cr 267.716†	32.4	-47.9	-1.0378	µg/L	-1.0378	ppb	10:27:01
2	Cu 324.752†	2285.7	-23.0	-0.1149	µg/L	-0.1149	ppb	10:27:01
2	Mn 257.610†	470.3	84.5	0.1403	µg/L	0.1403	ppb	10:27:01
2	Mo 202.031†	19.0	8.1	0.9579	µg/L	0.9579	ppb	10:27:21
2	Ni 231.604†	-92.7	18.7	0.7026	µg/L	0.7026	ppb	10:27:21
2	P 214.914†	52.5	-0.7	-0.7098	µg/L	-0.7098	ppb	10:27:21
2	Pb 220.353†	169.0	1.7	0.3380	µg/L	0.3380	ppb	10:27:21

2	S 181.975 Axial†	42.7	-8.7	-23.836	µg/L	-23.836	ppb	10:27:21
2	Sb 206.836†	55.8	-6.8	-3.5645	µg/L	-3.5645	ppb	10:27:21
2	Se 196.026†	-56.8	-7.7	-14.553	µg/L	-14.553	ppb	10:27:21
2	SiO2†	1189.4	24.0	2.7506	µg/L	2.7506	ppb	10:27:01
2	Si 251.611†	295.1	4.1	0.0430	µg/L	0.0430	ppb	10:27:21
2	Sn 189.927†	25.6	3.1	0.9418	µg/L	0.9418	ppb	10:27:21
2	Ti 334.940†	-452.9	23.9	0.0606	µg/L	0.0606	ppb	10:27:01
2	Tl 190.801†	-31.1	-5.5	-2.7700	µg/L	-2.7700	ppb	10:27:21
2	U 367.007†	561.5	35.1	11.71	µg/L	11.71	ppb	10:27:01
2	V 292.402†	124.1	50.7	0.5312	µg/L	0.5312	ppb	10:27:01
2	Zn 213.857†	704.7	7.7	0.1005	µg/L	0.1005	ppb	10:27:21
3	Sc RADIAL	6236.7	6236.7	96.9	%			10:26:08
3	Al 396.153Radial†	-143.2	27.5	28.738	µg/L	28.738	ppb	10:26:08
3	Ca 317.933Radial†	39.1	-6.6	-6.3838	µg/L	-6.3838	ppb	10:26:28
3	Fe 238.204 Radial†	34.6	-4.4	-4.6965	µg/L	-4.6965	ppb	10:26:28
3	K 766.490 Radial†	707.8	68.6	59.526	µg/L	59.526	ppb	10:26:08
3	Mg 279.077 IEC†	10.2	2.2	17.664	µg/L	17.664	ppb	10:26:28
3	Na 589.592 Radial†	-156.8	21.3	125.95	µg/L	125.95	ppb	10:26:08
3	Sr 421.552†	-892.2	-34.3	-0.5043	µg/L	-0.5043	ppb	10:26:08
3	Sc 361.383	550745.6	550745.6	97.156	%			10:27:26
3	Y 371.029	505653.7	505653.7	97.095	%			10:27:26
3	Ag 328.068†	-234.4	5.6	0.0431	µg/L	0.0431	ppb	10:27:26
3	As 188.979†	-23.5	-11.8	-9.8301	µg/L	-9.8301	ppb	10:27:46
3	B 249.677†	305.7	88.7	2.9507	µg/L	2.9507	ppb	10:27:26
3	Ba 233.527†	-66.0	-13.8	-0.1454	µg/L	-0.1454	ppb	10:27:46
3	Be 313.107†	-5332.7	19.5	0.0113	µg/L	0.0113	ppb	10:27:26
3	Cd 226.502†	-137.7	16.7	0.2703	µg/L	0.2703	ppb	10:27:46
3	Co 228.616†	-100.2	12.2	0.3663	µg/L	0.3663	ppb	10:27:46
3	Cr 267.716†	109.8	32.0	0.6864	µg/L	0.6864	ppb	10:27:26
3	Cu 324.752†	2337.9	51.5	0.2729	µg/L	0.2729	ppb	10:27:26
3	Mn 257.610†	411.5	28.3	0.0458	µg/L	0.0458	ppb	10:27:26
3	Mo 202.031†	18.2	7.5	0.8815	µg/L	0.8815	ppb	10:27:46
3	Ni 231.604†	-97.4	13.0	0.4874	µg/L	0.4874	ppb	10:27:46
3	P 214.914†	60.6	8.1	7.6264	µg/L	7.6264	ppb	10:27:46
3	Pb 220.353†	170.4	4.6	0.8968	µg/L	0.8968	ppb	10:27:46
3	S 181.975 Axial†	44.5	-6.4	-17.622	µg/L	-17.622	ppb	10:27:46
3	Sb 206.836†	54.5	-7.6	-4.0256	µg/L	-4.0256	ppb	10:27:46
3	Se 196.026†	-48.0	0.9	1.7501	µg/L	1.7501	ppb	10:27:46
3	SiO2†	1253.5	100.7	11.643	µg/L	11.643	ppb	10:27:26
3	Si 251.611†	293.9	5.6	-0.3226	µg/L	-0.3226	ppb	10:27:46
3	Sn 189.927†	24.9	2.5	0.7647	µg/L	0.7647	ppb	10:27:46
3	Ti 334.940†	-481.2	-9.3	-0.0279	µg/L	-0.0279	ppb	10:27:26
3	Tl 190.801†	-28.4	-3.1	-1.5444	µg/L	-1.5444	ppb	10:27:46
3	U 367.007†	533.8	11.7	3.935	µg/L	3.935	ppb	10:27:26
3	V 292.402†	160.1	88.9	0.9156	µg/L	0.9156	ppb	10:27:26
3	Zn 213.857†	692.3	1.3	0.0153	µg/L	0.0153	ppb	10:27:46

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	553647.6	97.668	%	0.4539				0.46%
Sc RADIAL	6240.2	97.0	%	0.32				0.33%
Y 371.029	508135.6	97.571	%	0.4243				0.43%
Ag 328.068†	-49.7	-0.3393	µg/L	0.37655	-0.3393	ppb	0.37655	110.99%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	6.5	6.7625	µg/L	25.03921	6.7625	ppb	25.03921	370.26%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.5	-2.9498	µg/L	6.83461	-2.9498	ppb	6.83461	231.70%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	54.8	1.8223	µg/L	2.04033	1.8223	ppb	2.04033	111.96%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-13.2	-0.1390	µg/L	0.01315	-0.1390	ppb	0.01315	9.46%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	33.2	0.0195	µg/L	0.00745	0.0195	ppb	0.00745	38.23%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	1.4	1.3690	µg/L	8.19959	1.3690	ppb	8.19959	598.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	9.1	0.1482	µg/L	0.11890	0.1482	ppb	0.11890	80.20%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	10.2	0.3052	µg/L	0.17335	0.3052	ppb	0.17335	56.80%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                13.4      0.2822 µg/L       1.17141      0.2822 ppb        1.17141 415.06%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                -3.5     -0.0146 µg/L       0.25273     -0.0146 ppb        0.25273 >999.9%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -3.2     -3.4131 µg/L       1.62504     -3.4131 ppb        1.62504  47.61%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          48.7      42.329 µg/L       22.2189      42.329 ppb        22.2189  52.49%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -1.0     -7.7167 µg/L      27.62529     -7.7167 ppb       27.62529 357.99%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                58.5      0.0965 µg/L       0.04765      0.0965 ppb        0.04765  49.35%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 8.7      1.0336 µg/L       0.20093      1.0336 ppb        0.20093  19.44%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          4.5      26.428 µg/L       88.9996      26.428 ppb        88.9996 336.77%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                15.5      0.5795 µg/L       0.11091      0.5795 ppb        0.11091  19.14%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  1.4      1.2984 µg/L       5.60073      1.2984 ppb        5.60073 431.36%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 0.1      0.0194 µg/L       1.07277      0.0194 ppb        1.07277 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -5.4     -14.683 µg/L       10.9240     -14.683 ppb        10.9240  74.40%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -10.2     -5.3576 µg/L       2.71622     -5.3576 ppb        2.71622  50.70%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -4.6     -8.6732 µg/L       9.05154     -8.6732 ppb        9.05154 104.36%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      37.3      3.9169 µg/L       7.21377      3.9169 ppb        7.21377 184.17%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                 2.4     -0.3261 µg/L       0.37085     -0.3261 ppb        0.37085 113.71%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 1.4      0.4244 µg/L       0.74794      0.4244 ppb        0.74794 176.22%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                -0.2     -0.0033 µg/L       0.50979     -0.0033 ppb        0.50979 >999.9%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                21.1      0.0540 µg/L       0.07882      0.0540 ppb        0.07882 145.94%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -5.7     -2.8664 µg/L       1.37281     -2.8664 ppb        1.37281  47.89%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 24.0       8.007 µg/L        3.9018       8.007 ppb         3.9018  48.73%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 44.9      0.4733 µg/L       0.47396      0.4733 ppb        0.47396 100.15%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                 4.4      0.0560 µg/L       0.04273      0.0560 ppb        0.04273  76.25%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 22 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 10:27:54**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6186.7	6186.7	96.2	%			10:28:43
1	Al 396.153Radial†	4494.6	4849.7	5023.0	µg/L	5023.0	ppb	10:28:23
1	Ca 317.933Radial†	5143.0	5301.7	5101.8	µg/L	5101.8	ppb	10:28:43
1	Fe 238.204 Radial†	4749.1	4899.0	5270.7	µg/L	5270.7	ppb	10:28:43
1	K 766.490 Radial†	6367.8	5960.8	5171.1	µg/L	5171.1	ppb	10:28:23
1	Mg 279.077 IEC†	661.1	679.3	5332.9	µg/L	5332.9	ppb	10:28:43
1	Na 589.592 Radial†	1509.1	1752.5	10356	µg/L	10356	ppb	10:28:23
1	Sr 421.552†	32706.2	34900.5	512.74	µg/L	512.74	ppb	10:28:23
1	Sc 361.383	566239.2	566239.2	99.889	%			10:29:40
1	Y 371.029	505753.1	505753.1	97.114	%			10:29:40
1	Ag 328.068†	74765.3	75095.3	520.52	µg/L	520.52	ppb	10:29:46
1	As 188.979†	584.8	597.8	497.40	µg/L	497.40	ppb	10:30:06
1	B 249.677†	15152.9	14943.8	498.45	µg/L	498.45	ppb	10:29:46
1	Ba 233.527†	47650.4	47757.5	507.36	µg/L	507.36	ppb	10:29:46
1	Be 313.107†	931987.0	938531.6	502.48	µg/L	502.48	ppb	10:29:40
1	Cd 226.502†	30926.9	31119.7	502.99	µg/L	502.99	ppb	10:29:46
1	Co 228.616†	16795.9	16930.0	505.77	µg/L	505.77	ppb	10:29:46
1	Cr 267.716†	23664.4	23609.7	506.87	µg/L	506.87	ppb	10:29:46
1	Cu 324.752†	99862.5	97618.8	514.40	µg/L	514.40	ppb	10:29:46
1	Mn 257.610†	305050.6	304994.5	503.46	µg/L	503.46	ppb	10:29:46
1	Mo 202.031†	4317.0	4310.5	510.28	µg/L	510.28	ppb	10:30:06
1	Ni 231.604†	13454.0	13582.2	509.36	µg/L	509.36	ppb	10:29:46
1	P 214.914†	2699.1	2647.8	2488.7	µg/L	2488.7	ppb	10:30:06
1	Pb 220.353†	2723.8	2556.0	504.54	µg/L	504.54	ppb	10:30:06
1	S 181.975 Axial†	415.2	363.4	1004.1	µg/L	1004.1	ppb	10:30:06
1	Sb 206.836†	1006.9	944.3	495.51	µg/L	495.51	ppb	10:30:06
1	Se 196.026†	211.0	261.6	508.15	µg/L	508.15	ppb	10:30:06
1	SiO2†	43505.3	42364.3	5354.8	µg/L	5354.8	ppb	10:29:46
1	Si 251.611†	44443.3	44195.8	2467.6	µg/L	2467.6	ppb	10:29:46
1	Sn 189.927†	1655.1	1633.8	503.31	µg/L	503.31	ppb	10:30:06
1	Ti 334.940†	188276.9	188972.2	516.87	µg/L	516.87	ppb	10:29:46
1	Tl 190.801†	997.6	1024.9	515.61	µg/L	515.61	ppb	10:30:06
1	U 367.007†	2003.5	1468.1	461.8	µg/L	461.8	ppb	10:29:46
1	V 292.402†	50024.2	50003.9	513.63	µg/L	513.63	ppb	10:29:46
1	Zn 213.857†	37969.8	37300.8	502.97	µg/L	502.97	ppb	10:29:46
2	Sc RADIAL	6192.3	6192.3	96.2	%			10:29:08
2	Al 396.153Radial†	4586.3	4940.8	5118.8	µg/L	5118.8	ppb	10:28:48
2	Ca 317.933Radial†	5112.2	5265.0	5066.5	µg/L	5066.5	ppb	10:29:08
2	Fe 238.204 Radial†	4723.8	4868.3	5237.7	µg/L	5237.7	ppb	10:29:08
2	K 766.490 Radial†	6281.1	5864.8	5087.6	µg/L	5087.6	ppb	10:28:48
2	Mg 279.077 IEC†	656.7	674.1	5292.0	µg/L	5292.0	ppb	10:29:08
2	Na 589.592 Radial†	1509.9	1751.9	10352	µg/L	10352	ppb	10:28:48
2	Sr 421.552†	33042.8	35219.7	517.43	µg/L	517.43	ppb	10:28:48
2	Sc 361.383	570847.2	570847.2	100.70	%			10:30:11
2	Y 371.029	509828.9	509828.9	97.896	%			10:30:11
2	Ag 328.068†	74468.7	74196.6	514.29	µg/L	514.29	ppb	10:30:16
2	As 188.979†	581.9	590.2	491.05	µg/L	491.05	ppb	10:30:36
2	B 249.677†	15015.7	14685.1	489.81	µg/L	489.81	ppb	10:30:16
2	Ba 233.527†	47501.2	47224.3	501.70	µg/L	501.70	ppb	10:30:16
2	Be 313.107†	932796.6	931804.0	498.88	µg/L	498.88	ppb	10:30:11
2	Cd 226.502†	30740.0	30684.2	495.95	µg/L	495.95	ppb	10:30:16
2	Co 228.616†	16813.8	16812.0	502.25	µg/L	502.25	ppb	10:30:16
2	Cr 267.716†	23634.6	23388.9	502.12	µg/L	502.12	ppb	10:30:16
2	Cu 324.752†	99490.3	96442.1	508.21	µg/L	508.21	ppb	10:30:16
2	Mn 257.610†	303861.1	301348.1	497.45	µg/L	497.45	ppb	10:30:16
2	Mo 202.031†	4289.4	4248.2	502.91	µg/L	502.91	ppb	10:30:36
2	Ni 231.604†	13410.5	13430.3	503.66	µg/L	503.66	ppb	10:30:16
2	P 214.914†	2672.5	2599.6	2443.4	µg/L	2443.4	ppb	10:30:36
2	Pb 220.353†	2703.7	2514.1	496.19	µg/L	496.19	ppb	10:30:36

2	S 181.975 Axial†	408.9	353.8	977.72 µg/L	977.72 ppb		10:30:36
2	Sb 206.836†	1005.7	934.9	490.54 µg/L	490.54 ppb		10:30:36
2	Se 196.026†	201.3	250.3	486.60 µg/L	486.60 ppb		10:30:36
2	SiO2†	43254.2	41763.3	5279.3 µg/L	5279.3 ppb		10:30:16
2	Si 251.611†	44224.9	43619.8	2435.6 µg/L	2435.6 ppb		10:30:16
2	Sn 189.927†	1641.7	1607.1	495.10 µg/L	495.10 ppb		10:30:36
2	Ti 334.940†	187412.6	186592.5	510.36 µg/L	510.36 ppb		10:30:16
2	Tl 190.801†	971.1	990.5	498.38 µg/L	498.38 ppb		10:30:36
2	U 367.007†	2050.9	1498.9	472.3 µg/L	472.3 ppb		10:30:16
2	V 292.402†	49740.6	49318.0	506.60 µg/L	506.60 ppb		10:30:16
2	Zn 213.857†	37822.6	36847.8	496.85 µg/L	496.85 ppb		10:30:16
3	Sc RADIAL	6137.6	6137.6	95.4 %			10:29:34
3	Al 396.153Radial†	4560.6	4956.3	5135.0 µg/L	5135.0 ppb		10:29:13
3	Ca 317.933Radial†	5071.9	5270.0	5071.3 µg/L	5071.3 ppb		10:29:34
3	Fe 238.204 Radial†	4713.9	4901.6	5273.4 µg/L	5273.4 ppb		10:29:34
3	K 766.490 Radial†	6394.5	6041.8	5241.4 µg/L	5241.4 ppb		10:29:13
3	Mg 279.077 IEC†	646.2	669.1	5253.0 µg/L	5253.0 ppb		10:29:34
3	Na 589.592 Radial†	1522.4	1779.1	10513 µg/L	10513 ppb		10:29:13
3	Sr 421.552†	33113.9	35600.0	523.02 µg/L	523.02 ppb		10:29:13
3	Sc 361.383	565972.1	565972.1	99.842 %			10:30:42
3	Y 371.029	506136.6	506136.6	97.187 %			10:30:42
3	Ag 328.068†	73903.8	74267.7	514.80 µg/L	514.80 ppb		10:30:47
3	As 188.979†	570.6	583.9	485.79 µg/L	485.79 ppb		10:31:07
3	B 249.677†	14906.7	14704.3	490.38 µg/L	490.38 ppb		10:30:47
3	Ba 233.527†	47087.2	47215.9	501.61 µg/L	501.61 ppb		10:30:47
3	Be 313.107†	924600.2	931573.4	498.75 µg/L	498.75 ppb		10:30:42
3	Cd 226.502†	30468.3	30675.0	495.79 µg/L	495.79 ppb		10:30:47
3	Co 228.616†	16619.0	16760.7	500.71 µg/L	500.71 ppb		10:30:47
3	Cr 267.716†	23428.6	23384.8	502.06 µg/L	502.06 ppb		10:30:47
3	Cu 324.752†	98992.9	96794.9	510.05 µg/L	510.05 ppb		10:30:47
3	Mn 257.610†	301737.2	301820.0	498.23 µg/L	498.23 ppb		10:30:47
3	Mo 202.031†	4258.8	4254.2	503.62 µg/L	503.62 ppb		10:31:07
3	Ni 231.604†	13228.3	13362.5	501.12 µg/L	501.12 ppb		10:30:47
3	P 214.914†	2638.2	2588.0	2432.4 µg/L	2432.4 ppb		10:31:07
3	Pb 220.353†	2676.6	2510.1	495.39 µg/L	495.39 ppb		10:31:07
3	S 181.975 Axial†	405.4	353.8	977.71 µg/L	977.71 ppb		10:31:07
3	Sb 206.836†	993.8	931.6	488.80 µg/L	488.80 ppb		10:31:07
3	Se 196.026†	212.0	262.7	510.03 µg/L	510.03 ppb		10:31:07
3	SiO2†	42942.4	41821.0	5282.9 µg/L	5282.9 ppb		10:30:47
3	Si 251.611†	43924.6	43697.3	2438.4 µg/L	2438.4 ppb		10:30:47
3	Sn 189.927†	1620.9	1600.4	493.03 µg/L	493.03 ppb		10:31:07
3	Ti 334.940†	186277.1	187058.2	511.65 µg/L	511.65 ppb		10:30:47
3	Tl 190.801†	958.5	986.2	496.16 µg/L	496.16 ppb		10:31:07
3	U 367.007†	1926.5	1391.9	436.5 µg/L	436.5 ppb		10:30:47
3	V 292.402†	49421.0	49423.5	507.65 µg/L	507.65 ppb		10:30:47
3	Zn 213.857†	37344.9	36692.9	494.76 µg/L	494.76 ppb		10:30:47

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	567686.1	100.14	%	0.483				0.48%
Sc RADIAL	6172.2	95.9	%	0.47				0.49%
Y 371.029	507239.5	97.399	%	0.4322				0.44%
Ag 328.068†	74519.9	516.54	µg/L	3.458	516.54	ppb	3.458	0.67%
QC value within limits for Ag 328.068 Recovery = 103.31%								
Al 396.153Radial†	4915.6	5092.2	µg/L	60.52	5092.2	ppb	60.52	1.19%
QC value within limits for Al 396.153Radial Recovery = 101.84%								
As 188.979†	590.6	491.42	µg/L	5.814	491.42	ppb	5.814	1.18%
QC value within limits for As 188.979 Recovery = 98.28%								
B 249.677†	14777.7	492.88	µg/L	4.834	492.88	ppb	4.834	0.98%
QC value within limits for B 249.677 Recovery = 98.58%								
Ba 233.527†	47399.3	503.56	µg/L	3.298	503.56	ppb	3.298	0.65%
QC value within limits for Ba 233.527 Recovery = 100.71%								
Be 313.107†	933969.6	500.03	µg/L	2.117	500.03	ppb	2.117	0.42%
QC value within limits for Be 313.107 Recovery = 100.01%								
Ca 317.933Radial†	5278.9	5079.9	µg/L	19.16	5079.9	ppb	19.16	0.38%
QC value within limits for Ca 317.933Radial Recovery = 101.60%								
Cd 226.502†	30826.3	498.24	µg/L	4.111	498.24	ppb	4.111	0.83%
QC value within limits for Cd 226.502 Recovery = 99.65%								
Co 228.616†	16834.2	502.91	µg/L	2.595	502.91	ppb	2.595	0.52%

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   QC value within limits for Co 228.616  Recovery = 100.58%
Cr 267.716†            23461.1      503.68 µg/L         2.762      503.68 ppb          2.762   0.55%
   QC value within limits for Cr 267.716  Recovery = 100.74%
Cu 324.752†            96951.9      510.88 µg/L         3.178      510.88 ppb          3.178   0.62%
   QC value within limits for Cu 324.752  Recovery = 102.18%
Fe 238.204 Radial†      4889.7      5260.6 µg/L         19.91      5260.6 ppb          19.91   0.38%
   QC value within limits for Fe 238.204 Radial  Recovery = 105.21%
K 766.490 Radial†       5955.8      5166.7 µg/L         76.99      5166.7 ppb          76.99   1.49%
   QC value within limits for K 766.490 Radial  Recovery = 103.33%
Mg 279.077 IEC†          674.1      5292.6 µg/L         39.91      5292.6 ppb          39.91   0.75%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.85%
Mn 257.610†           302720.9      499.71 µg/L         3.272      499.71 ppb          3.272   0.65%
   QC value within limits for Mn 257.610  Recovery = 99.94%
Mo 202.031†             4271.0      505.60 µg/L         4.064      505.60 ppb          4.064   0.80%
   QC value within limits for Mo 202.031  Recovery = 101.12%
Na 589.592 Radial†      1761.2       10407 µg/L          91.5       10407 ppb           91.5   0.88%
   QC value within limits for Na 589.592 Radial  Recovery = 104.07%
Ni 231.604†            13458.4      504.71 µg/L         4.219      504.71 ppb          4.219   0.84%
   QC value within limits for Ni 231.604  Recovery = 100.94%
P 214.914†              2611.8      2454.8 µg/L         29.88      2454.8 ppb          29.88   1.22%
   QC value within limits for P 214.914  Recovery = 98.19%
Pb 220.353†             2526.7      498.71 µg/L         5.068      498.71 ppb          5.068   1.02%
   QC value within limits for Pb 220.353  Recovery = 99.74%
S 181.975 Axial†         357.0      986.53 µg/L        15.258      986.53 ppb         15.258   1.55%
   QC value within limits for S 181.975 Axial  Recovery = 98.65%
Sb 206.836†              936.9      491.61 µg/L         3.481      491.61 ppb          3.481   0.71%
   QC value within limits for Sb 206.836  Recovery = 98.32%
Se 196.026†              258.2      501.59 µg/L        13.017      501.59 ppb         13.017   2.60%
   QC value within limits for Se 196.026  Recovery = 100.32%
SiO2†                  41982.9      5305.6 µg/L         42.57      5305.6 ppb          42.57   0.80%
   QC value within limits for SiO2  Recovery = 99.22%
Si 251.611†            43837.6      2447.2 µg/L         17.71      2447.2 ppb          17.71   0.72%
   QC value within limits for Si 251.611  Recovery = 97.89%
Sn 189.927†             1613.8      497.15 µg/L         5.436      497.15 ppb          5.436   1.09%
   QC value within limits for Sn 189.927  Recovery = 99.43%
Sr 421.552†            35240.1      517.73 µg/L         5.145      517.73 ppb          5.145   0.99%
   QC value within limits for Sr 421.552  Recovery = 103.55%
Ti 334.940†           187540.9      512.96 µg/L         3.450      512.96 ppb          3.450   0.67%
   QC value within limits for Ti 334.940  Recovery = 102.59%
Tl 190.801†             1000.5      503.38 µg/L        10.643      503.38 ppb         10.643   2.11%
   QC value within limits for Tl 190.801  Recovery = 100.68%
U 367.007†              1452.9       456.9 µg/L         18.41       456.9 ppb          18.41   4.03%
   QC value within limits for U 367.007  Recovery = 91.37%
V 292.402†             49581.8      509.30 µg/L         3.793      509.30 ppb          3.793   0.74%
   QC value within limits for V 292.402  Recovery = 101.86%
Zn 213.857†            36947.1      498.20 µg/L         4.264      498.20 ppb          4.264   0.86%
   QC value within limits for Zn 213.857  Recovery = 99.64%
All analyte(s) passed QC.
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Sequence No.: 23 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 10:31:15**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6224.5	6224.5	96.7	%			10:31:43
1	Al 396.153Radial†	-180.0	-10.8	-11.317	µg/L	-11.317	ppb	10:31:43
1	Ca 317.933Radial†	43.5	-1.9	-1.8745	µg/L	-1.8745	ppb	10:32:03
1	Fe 238.204 Radial†	43.5	5.0	5.3362	µg/L	5.3362	ppb	10:32:03
1	K 766.490 Radial†	703.0	65.0	56.509	µg/L	56.509	ppb	10:31:43
1	Mg 279.077 IEC†	12.7	4.8	38.010	µg/L	38.010	ppb	10:32:03
1	Na 589.592 Radial†	-173.7	3.6	20.984	µg/L	20.984	ppb	10:31:43
1	Sr 421.552†	-891.4	-35.3	-0.5183	µg/L	-0.5183	ppb	10:31:43
1	Sc 361.383	549296.4	549296.4	96.900	%			10:33:00
1	Y 371.029	504400.3	504400.3	96.854	%			10:33:00
1	Ag 328.068†	-134.0	108.6	0.7472	µg/L	0.7472	ppb	10:33:00
1	As 188.979†	-9.4	2.6	2.1896	µg/L	2.1896	ppb	10:33:20
1	B 249.677†	248.2	30.2	0.9846	µg/L	0.9846	ppb	10:33:00
1	Ba 233.527†	-62.2	-10.0	-0.1067	µg/L	-0.1067	ppb	10:33:20
1	Be 313.107†	-5273.5	66.0	0.0363	µg/L	0.0363	ppb	10:33:00
1	Cd 226.502†	-171.2	-18.2	-0.2952	µg/L	-0.2952	ppb	10:33:20
1	Co 228.616†	-90.7	21.8	0.6514	µg/L	0.6514	ppb	10:33:20
1	Cr 267.716†	85.2	6.9	0.1462	µg/L	0.1462	ppb	10:33:00
1	Cu 324.752†	2342.1	62.2	0.3305	µg/L	0.3305	ppb	10:33:00
1	Mn 257.610†	444.4	63.3	0.1035	µg/L	0.1035	ppb	10:33:00
1	Mo 202.031†	14.4	3.5	0.4162	µg/L	0.4162	ppb	10:33:20
1	Ni 231.604†	-89.9	20.5	0.7683	µg/L	0.7683	ppb	10:33:20
1	P 214.914†	56.1	3.6	3.3409	µg/L	3.3409	ppb	10:33:20
1	Pb 220.353†	167.2	1.7	0.3433	µg/L	0.3433	ppb	10:33:20
1	S 181.975 Axial†	53.8	3.2	8.9038	µg/L	8.9038	ppb	10:33:20
1	Sb 206.836†	66.9	5.3	2.8012	µg/L	2.8012	ppb	10:33:20
1	Se 196.026†	-49.6	-0.9	-1.7076	µg/L	-1.7076	ppb	10:33:20
1	SiO2†	1156.7	4.3	-0.6821	µg/L	-0.6821	ppb	10:33:00
1	Si 251.611†	321.1	34.4	1.3646	µg/L	1.3646	ppb	10:33:20
1	Sn 189.927†	23.2	0.8	0.2545	µg/L	0.2545	ppb	10:33:20
1	Ti 334.940†	-503.0	-33.2	-0.0934	µg/L	-0.0934	ppb	10:33:00
1	Tl 190.801†	-30.6	-5.4	-2.7157	µg/L	-2.7157	ppb	10:33:20
1	U 367.007†	534.9	14.3	4.736	µg/L	4.736	ppb	10:33:00
1	V 292.402†	72.2	-1.4	-0.0049	µg/L	-0.0049	ppb	10:33:00
1	Zn 213.857†	707.2	18.6	0.2463	µg/L	0.2463	ppb	10:33:20
2	Sc RADIAL	6257.9	6257.9	97.3	%			10:32:08
2	Al 396.153Radial†	-155.2	15.8	16.436	µg/L	16.436	ppb	10:32:08
2	Ca 317.933Radial†	46.7	1.1	1.0704	µg/L	1.0704	ppb	10:32:28
2	Fe 238.204 Radial†	41.8	2.9	3.1406	µg/L	3.1406	ppb	10:32:28
2	K 766.490 Radial†	631.8	-12.0	-10.510	µg/L	-10.510	ppb	10:32:08
2	Mg 279.077 IEC†	8.4	0.3	2.4898	µg/L	2.4898	ppb	10:32:28
2	Na 589.592 Radial†	-164.4	14.0	83.010	µg/L	83.010	ppb	10:32:08
2	Sr 421.552†	-887.2	-26.1	-0.3834	µg/L	-0.3834	ppb	10:32:08
2	Sc 361.383	550225.5	550225.5	97.064	%			10:33:25
2	Y 371.029	505591.8	505591.8	97.083	%			10:33:25
2	Ag 328.068†	-320.0	-82.9	-0.5652	µg/L	-0.5652	ppb	10:33:25
2	As 188.979†	-17.0	-5.1	-4.2204	µg/L	-4.2204	ppb	10:33:45
2	B 249.677†	249.2	30.8	1.0379	µg/L	1.0379	ppb	10:33:25
2	Ba 233.527†	-58.7	-6.3	-0.0666	µg/L	-0.0666	ppb	10:33:45
2	Be 313.107†	-5369.2	-23.3	-0.0131	µg/L	-0.0131	ppb	10:33:25
2	Cd 226.502†	-145.9	8.1	0.1317	µg/L	0.1317	ppb	10:33:45
2	Co 228.616†	-95.1	17.4	0.5216	µg/L	0.5216	ppb	10:33:45
2	Cr 267.716†	94.3	16.2	0.3496	µg/L	0.3496	ppb	10:33:25
2	Cu 324.752†	2374.2	91.2	0.4782	µg/L	0.4782	ppb	10:33:25
2	Mn 257.610†	531.9	152.7	0.2521	µg/L	0.2521	ppb	10:33:25
2	Mo 202.031†	16.7	5.9	0.6950	µg/L	0.6950	ppb	10:33:45
2	Ni 231.604†	-91.6	19.0	0.7109	µg/L	0.7109	ppb	10:33:45
2	P 214.914†	64.3	11.9	11.247	µg/L	11.247	ppb	10:33:45
2	Pb 220.353†	150.3	-16.0	-3.1575	µg/L	-3.1575	ppb	10:33:45

2	S 181.975 Axial†	48.3	-2.5	-6.9105	µg/L	-6.9105	ppb	10:33:45
2	Sb 206.836†	61.1	-0.7	-0.3826	µg/L	-0.3826	ppb	10:33:45
2	Se 196.026†	-45.0	3.9	7.4349	µg/L	7.4349	ppb	10:33:45
2	SiO2†	1151.6	-2.9	-0.1420	µg/L	-0.1420	ppb	10:33:25
2	Si 251.611†	294.4	6.4	0.4701	µg/L	0.4701	ppb	10:33:45
2	Sn 189.927†	31.7	9.6	2.9340	µg/L	2.9340	ppb	10:33:45
2	Ti 334.940†	-551.7	-82.4	-0.2242	µg/L	-0.2242	ppb	10:33:25
2	Tl 190.801†	-36.8	-11.7	-5.8885	µg/L	-5.8885	ppb	10:33:45
2	U 367.007†	512.3	-9.9	-3.316	µg/L	-3.316	ppb	10:33:25
2	V 292.402†	117.0	44.6	0.4584	µg/L	0.4584	ppb	10:33:25
2	Zn 213.857†	700.4	10.3	0.1350	µg/L	0.1350	ppb	10:33:45
3	Sc RADIAL	6316.1	6316.1	98.2	%			10:32:33
3	Al 396.153Radial†	-180.1	-8.1	-8.5678	µg/L	-8.5678	ppb	10:32:33
3	Ca 317.933Radial†	49.8	3.8	3.7050	µg/L	3.7050	ppb	10:32:53
3	Fe 238.204 Radial†	39.8	0.5	0.5905	µg/L	0.5905	ppb	10:32:53
3	K 766.490 Radial†	659.6	10.3	8.9459	µg/L	8.9459	ppb	10:32:33
3	Mg 279.077 IEC†	6.9	-1.2	-9.7476	µg/L	-9.7476	ppb	10:32:53
3	Na 589.592 Radial†	-176.6	3.2	18.712	µg/L	18.712	ppb	10:32:33
3	Sr 421.552†	-846.3	24.0	0.3525	µg/L	0.3525	ppb	10:32:33
3	Sc 361.383	549819.9	549819.9	96.992	%			10:33:51
3	Y 371.029	504455.9	504455.9	96.865	%			10:33:51
3	Ag 328.068†	-206.0	34.5	0.2382	µg/L	0.2382	ppb	10:33:51
3	As 188.979†	-15.7	-3.8	-3.1546	µg/L	-3.1546	ppb	10:34:11
3	B 249.677†	279.9	62.6	2.0985	µg/L	2.0985	ppb	10:33:51
3	Ba 233.527†	-58.2	-5.8	-0.0615	µg/L	-0.0615	ppb	10:34:11
3	Be 313.107†	-5330.1	12.9	0.0033	µg/L	0.0033	ppb	10:33:51
3	Cd 226.502†	-164.4	-11.1	-0.1787	µg/L	-0.1787	ppb	10:34:11
3	Co 228.616†	-100.7	11.6	0.3484	µg/L	0.3484	ppb	10:34:11
3	Cr 267.716†	90.2	12.0	0.2691	µg/L	0.2691	ppb	10:33:51
3	Cu 324.752†	2391.2	110.5	0.5702	µg/L	0.5702	ppb	10:33:51
3	Mn 257.610†	405.1	22.4	0.0374	µg/L	0.0374	ppb	10:33:51
3	Mo 202.031†	20.5	9.9	1.1689	µg/L	1.1689	ppb	10:34:11
3	Ni 231.604†	-98.3	12.0	0.4483	µg/L	0.4483	ppb	10:34:11
3	P 214.914†	62.3	9.9	9.2996	µg/L	9.2996	ppb	10:34:11
3	Pb 220.353†	154.8	-11.2	-2.1858	µg/L	-2.1858	ppb	10:34:11
3	S 181.975 Axial†	46.8	-4.1	-11.088	µg/L	-11.088	ppb	10:34:11
3	Sb 206.836†	68.2	6.6	3.4904	µg/L	3.4904	ppb	10:34:11
3	Se 196.026†	-46.2	2.6	4.9262	µg/L	4.9262	ppb	10:34:11
3	SiO2†	1203.1	51.0	6.1983	µg/L	6.1983	ppb	10:33:51
3	Si 251.611†	298.8	11.1	0.5291	µg/L	0.5291	ppb	10:34:11
3	Sn 189.927†	27.9	5.7	1.7365	µg/L	1.7365	ppb	10:34:11
3	Ti 334.940†	-486.7	-15.8	-0.0347	µg/L	-0.0347	ppb	10:33:51
3	Tl 190.801†	-31.0	-5.7	-2.8943	µg/L	-2.8943	ppb	10:34:11
3	U 367.007†	468.4	-54.8	-18.23	µg/L	-18.23	ppb	10:33:51
3	V 292.402†	90.9	17.9	0.1801	µg/L	0.1801	ppb	10:33:51
3	Zn 213.857†	697.8	8.2	0.1086	µg/L	0.1086	ppb	10:34:11

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	549780.6	96.986	%	0.0822				0.08%
Sc RADIAL	6266.2	97.4	%	0.72				0.74%
Y 371.029	504816.0	96.934	%	0.1291				0.13%
Ag 328.068†	20.1	0.1400	µg/L	0.66168	0.1400	ppb	0.66168	472.50%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-1.0	-1.1497	µg/L	15.29148	-1.1497	ppb	15.29148	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.1	-1.7285	µg/L	3.43472	-1.7285	ppb	3.43472	198.71%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	41.2	1.3736	µg/L	0.62829	1.3736	ppb	0.62829	45.74%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-7.4	-0.0783	µg/L	0.02477	-0.0783	ppb	0.02477	31.64%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	18.6	0.0088	µg/L	0.02517	0.0088	ppb	0.02517	284.63%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	1.0	0.9669	µg/L	2.79118	0.9669	ppb	2.79118	288.66%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-7.1	-0.1141	µg/L	0.22068	-0.1141	ppb	0.22068	193.41%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	16.9	0.5071	µg/L	0.15203	0.5071	ppb	0.15203	29.98%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               11.7      0.2549 µg/L       0.10241      0.2549 ppb        0.10241  40.17%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               88.0      0.4596 µg/L       0.12096      0.4596 ppb        0.12096  26.32%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         2.8      3.0224 µg/L       2.37502      3.0224 ppb        2.37502  78.58%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         21.1      18.315 µg/L       34.4778      18.315 ppb        34.4778 188.25%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            1.3      10.251 µg/L       24.8069      10.251 ppb        24.8069 242.00%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               79.5      0.1310 µg/L       0.10994      0.1310 ppb        0.10994  83.92%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                6.4      0.7600 µg/L       0.38055      0.7600 ppb        0.38055  50.07%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         6.9      40.902 µg/L       36.4845      40.902 ppb        36.4845  89.20%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               17.1      0.6425 µg/L       0.17062      0.6425 ppb        0.17062  26.55%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 8.4      7.9627 µg/L       4.11933      7.9627 ppb        4.11933  51.73%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -8.5     -1.6667 µg/L       1.80719     -1.6667 ppb        1.80719 108.43%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -1.1     -3.0315 µg/L      10.54527     -3.0315 ppb       10.54527 347.85%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                3.7      1.9696 µg/L       2.06607      1.9696 ppb        2.06607 104.90%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                1.9      3.5512 µg/L       4.72379      3.5512 ppb        4.72379 133.02%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     17.5      1.7914 µg/L       3.82604      1.7914 ppb        3.82604 213.58%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               17.3      0.7879 µg/L       0.50028      0.7879 ppb        0.50028  63.50%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                5.4      1.6417 µg/L       1.34229      1.6417 ppb        1.34229  81.76%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -12.5     -0.1831 µg/L       0.46871     -0.1831 ppb        0.46871 256.02%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -43.8     -0.1174 µg/L       0.09700     -0.1174 ppb        0.09700  82.61%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -7.6     -3.8329 µg/L       1.78251     -3.8329 ppb        1.78251  46.51%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -16.8      -5.604 µg/L       11.6543      -5.604 ppb        11.6543 207.96%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                20.4      0.2112 µg/L       0.23320      0.2112 ppb        0.23320 110.42%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               12.4      0.1633 µg/L       0.07308      0.1633 ppb        0.07308  44.77%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 27 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 10:43:35**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6360.5	6360.5	98.9	%			10:44:25
1	Al 396.153Radial†	4726.7	4956.8	5135.6	µg/L	5135.6	ppb	10:44:05
1	Ca 317.933Radial†	5221.6	5235.1	5037.8	µg/L	5037.8	ppb	10:44:25
1	Fe 238.204 Radial†	4775.3	4790.6	5154.0	µg/L	5154.0	ppb	10:44:25
1	K 766.490 Radial†	6583.1	5997.7	5203.1	µg/L	5203.1	ppb	10:44:05
1	Mg 279.077 IEC†	660.6	659.9	5181.1	µg/L	5181.1	ppb	10:44:25
1	Na 589.592 Radial†	1556.1	1757.2	10383	µg/L	10383	ppb	10:44:05
1	Sr 421.552†	33635.5	34911.1	512.89	µg/L	512.89	ppb	10:44:05
1	Sc 361.383	569787.4	569787.4	100.51	%			10:45:22
1	Y 371.029	508357.7	508357.7	97.614	%			10:45:22
1	Ag 328.068†	74691.0	74555.2	516.74	µg/L	516.74	ppb	10:45:27
1	As 188.979†	586.0	595.4	495.36	µg/L	495.36	ppb	10:45:48
1	B 249.677†	15039.2	14736.2	491.49	µg/L	491.49	ppb	10:45:27
1	Ba 233.527†	47465.9	47276.9	502.26	µg/L	502.26	ppb	10:45:27
1	Be 313.107†	928681.2	929432.4	497.61	µg/L	497.61	ppb	10:45:22
1	Cd 226.502†	30606.3	30607.9	494.72	µg/L	494.72	ppb	10:45:27
1	Co 228.616†	16703.8	16733.6	499.90	µg/L	499.90	ppb	10:45:27
1	Cr 267.716†	23607.2	23405.3	502.48	µg/L	502.48	ppb	10:45:27
1	Cu 324.752†	99852.3	96986.0	511.07	µg/L	511.07	ppb	10:45:27
1	Mn 257.610†	304088.4	302135.5	498.74	µg/L	498.74	ppb	10:45:27
1	Mo 202.031†	4272.8	4239.6	501.89	µg/L	501.89	ppb	10:45:48
1	Ni 231.604†	13392.4	13437.1	503.91	µg/L	503.91	ppb	10:45:27
1	P 214.914†	2667.6	2599.5	2443.4	µg/L	2443.4	ppb	10:45:48
1	Pb 220.353†	2704.3	2519.6	497.27	µg/L	497.27	ppb	10:45:48
1	S 181.975 Axial†	398.9	344.6	952.46	µg/L	952.46	ppb	10:45:48
1	Sb 206.836†	1007.4	938.5	492.42	µg/L	492.42	ppb	10:45:48
1	Se 196.026†	199.0	248.3	482.76	µg/L	482.76	ppb	10:45:48
1	SiO2†	43354.7	41943.2	5299.7	µg/L	5299.7	ppb	10:45:27
1	Si 251.611†	44374.1	43849.9	2447.6	µg/L	2447.6	ppb	10:45:27
1	Sn 189.927†	1632.6	1601.2	493.28	µg/L	493.28	ppb	10:45:48
1	Ti 334.940†	187400.5	186926.5	511.28	µg/L	511.28	ppb	10:45:27
1	Tl 190.801†	979.0	1000.2	503.20	µg/L	503.20	ppb	10:45:48
1	U 367.007†	2019.0	1471.0	463.4	µg/L	463.4	ppb	10:45:27
1	V 292.402†	49751.5	49420.7	507.62	µg/L	507.62	ppb	10:45:27
1	Zn 213.857†	37724.0	36819.5	496.48	µg/L	496.48	ppb	10:45:27
2	Sc RADIAL	6324.5	6324.5	98.3	%			10:44:50
2	Al 396.153Radial†	4767.1	5025.1	5207.0	µg/L	5207.0	ppb	10:44:30
2	Ca 317.933Radial†	5180.5	5223.4	5026.4	µg/L	5026.4	ppb	10:44:50
2	Fe 238.204 Radial†	4724.6	4766.5	5128.2	µg/L	5128.2	ppb	10:44:50
2	K 766.490 Radial†	6520.6	5972.1	5180.8	µg/L	5180.8	ppb	10:44:30
2	Mg 279.077 IEC†	657.9	661.0	5189.1	µg/L	5189.1	ppb	10:44:50
2	Na 589.592 Radial†	1547.8	1757.6	10386	µg/L	10386	ppb	10:44:30
2	Sr 421.552†	33708.4	35179.0	516.83	µg/L	516.83	ppb	10:44:30
2	Sc 361.383	567885.7	567885.7	100.18	%			10:45:53
2	Y 371.029	506980.9	506980.9	97.349	%			10:45:53
2	Ag 328.068†	74360.9	74474.6	516.18	µg/L	516.18	ppb	10:45:58
2	As 188.979†	568.9	580.2	482.76	µg/L	482.76	ppb	10:46:18
2	B 249.677†	14971.6	14718.8	490.91	µg/L	490.91	ppb	10:45:58
2	Ba 233.527†	47247.7	47217.2	501.62	µg/L	501.62	ppb	10:45:58
2	Be 313.107†	927760.4	931607.3	498.77	µg/L	498.77	ppb	10:45:53
2	Cd 226.502†	30468.2	30572.0	494.14	µg/L	494.14	ppb	10:45:58
2	Co 228.616†	16661.8	16747.4	500.31	µg/L	500.31	ppb	10:45:58
2	Cr 267.716†	23458.1	23335.1	500.97	µg/L	500.97	ppb	10:45:58
2	Cu 324.752†	99711.1	97177.7	512.07	µg/L	512.07	ppb	10:45:58
2	Mn 257.610†	302718.3	301780.9	498.15	µg/L	498.15	ppb	10:45:58
2	Mo 202.031†	4256.1	4237.2	501.60	µg/L	501.60	ppb	10:46:18
2	Ni 231.604†	13292.0	13381.5	501.83	µg/L	501.83	ppb	10:45:58
2	P 214.914†	2616.5	2557.5	2403.6	µg/L	2403.6	ppb	10:46:18
2	Pb 220.353†	2667.4	2491.8	491.73	µg/L	491.73	ppb	10:46:18

2	S 181.975 Axial†	394.9	342.0	945.15 µg/L	945.15 ppb	10:46:18
2	Sb 206.836†	997.7	932.2	489.09 µg/L	489.09 ppb	10:46:18
2	Se 196.026†	204.8	254.7	494.99 µg/L	494.99 ppb	10:46:18
2	SiO2†	43077.0	41810.4	5283.0 µg/L	5283.0 ppb	10:45:58
2	Si 251.611†	44150.2	43774.2	2443.5 µg/L	2443.5 ppb	10:45:58
2	Sn 189.927†	1619.0	1593.0	490.77 µg/L	490.77 ppb	10:46:18
2	Ti 334.940†	187078.9	187229.9	512.11 µg/L	512.11 ppb	10:45:58
2	Tl 190.801†	966.7	991.2	498.70 µg/L	498.70 ppb	10:46:18
2	U 367.007†	2009.5	1468.2	462.6 µg/L	462.6 ppb	10:45:58
2	V 292.402†	49575.7	49411.0	507.52 µg/L	507.52 ppb	10:45:58
2	Zn 213.857†	37581.1	36802.6	496.26 µg/L	496.26 ppb	10:45:58
3	Sc RADIAL	6321.8	6321.8	98.3 %		10:45:15
3	Al 396.153Radial†	4696.2	4955.1	5134.0 µg/L	5134.0 ppb	10:44:55
3	Ca 317.933Radial†	5182.1	5227.3	5030.2 µg/L	5030.2 ppb	10:45:15
3	Fe 238.204 Radial†	4748.1	4792.5	5156.1 µg/L	5156.1 ppb	10:45:15
3	K 766.490 Radial†	6563.9	6018.9	5221.6 µg/L	5221.6 ppb	10:44:55
3	Mg 279.077 IEC†	662.5	665.9	5228.2 µg/L	5228.2 ppb	10:45:15
3	Na 589.592 Radial†	1547.5	1758.0	10388 µg/L	10388 ppb	10:44:55
3	Sr 421.552†	33339.9	34818.7	511.54 µg/L	511.54 ppb	10:44:55
3	Sc 361.383	568219.1	568219.1	100.24 %		10:46:24
3	Y 371.029	507587.3	507587.3	97.466 %		10:46:24
3	Ag 328.068†	74101.9	74172.7	514.10 µg/L	514.10 ppb	10:46:29
3	As 188.979†	567.9	578.9	481.65 µg/L	481.65 ppb	10:46:49
3	B 249.677†	14861.6	14600.3	486.91 µg/L	486.91 ppb	10:46:29
3	Ba 233.527†	47034.8	46977.2	499.07 µg/L	499.07 ppb	10:46:29
3	Be 313.107†	921543.7	924862.0	495.16 µg/L	495.16 ppb	10:46:24
3	Cd 226.502†	30236.9	30323.4	490.12 µg/L	490.12 ppb	10:46:29
3	Co 228.616†	16597.5	16673.5	498.10 µg/L	498.10 ppb	10:46:29
3	Cr 267.716†	23282.1	23145.8	496.91 µg/L	496.91 ppb	10:46:29
3	Cu 324.752†	99114.3	96524.0	508.63 µg/L	508.63 ppb	10:46:29
3	Mn 257.610†	301020.4	299909.8	495.07 µg/L	495.07 ppb	10:46:29
3	Mo 202.031†	4241.3	4220.0	499.56 µg/L	499.56 ppb	10:46:49
3	Ni 231.604†	13208.6	13290.5	498.42 µg/L	498.42 ppb	10:46:29
3	P 214.914†	2619.7	2559.1	2405.2 µg/L	2405.2 ppb	10:46:49
3	Pb 220.353†	2644.7	2467.6	486.99 µg/L	486.99 ppb	10:46:49
3	S 181.975 Axial†	395.8	342.6	946.78 µg/L	946.78 ppb	10:46:49
3	Sb 206.836†	988.2	922.1	483.84 µg/L	483.84 ppb	10:46:49
3	Se 196.026†	205.8	255.7	496.74 µg/L	496.74 ppb	10:46:49
3	SiO2†	42861.8	41570.6	5251.1 µg/L	5251.1 ppb	10:46:29
3	Si 251.611†	43913.0	43511.7	2428.1 µg/L	2428.1 ppb	10:46:29
3	Sn 189.927†	1606.5	1579.6	486.65 µg/L	486.65 ppb	10:46:49
3	Ti 334.940†	186302.2	186345.5	509.69 µg/L	509.69 ppb	10:46:29
3	Tl 190.801†	963.0	986.9	496.54 µg/L	496.54 ppb	10:46:49
3	U 367.007†	1994.0	1451.6	456.9 µg/L	456.9 ppb	10:46:29
3	V 292.402†	49356.8	49163.6	504.97 µg/L	504.97 ppb	10:46:29
3	Zn 213.857†	37295.7	36495.9	492.11 µg/L	492.11 ppb	10:46:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	568630.8	100.31	%	0.179				0.18%
Sc RADIAL	6335.6	98.5	%	0.34				0.34%
Y 371.029	507642.0	97.476	%	0.1325				0.14%
Ag 328.068†	74400.8	515.67	µg/L	1.393	515.67	ppb	1.393	0.27%
QC value within limits for Ag 328.068 Recovery = 103.13%								
Al 396.153Radial†	4979.0	5158.9	µg/L	41.69	5158.9	ppb	41.69	0.81%
QC value within limits for Al 396.153Radial Recovery = 103.18%								
As 188.979†	584.8	486.59	µg/L	7.613	486.59	ppb	7.613	1.56%
QC value within limits for As 188.979 Recovery = 97.32%								
B 249.677†	14685.1	489.77	µg/L	2.494	489.77	ppb	2.494	0.51%
QC value within limits for B 249.677 Recovery = 97.95%								
Ba 233.527†	47157.1	500.98	µg/L	1.685	500.98	ppb	1.685	0.34%
QC value within limits for Ba 233.527 Recovery = 100.20%								
Be 313.107†	928633.9	497.18	µg/L	1.843	497.18	ppb	1.843	0.37%
QC value within limits for Be 313.107 Recovery = 99.44%								
Ca 317.933Radial†	5228.6	5031.5	µg/L	5.76	5031.5	ppb	5.76	0.11%
QC value within limits for Ca 317.933Radial Recovery = 100.63%								
Cd 226.502†	30501.1	492.99	µg/L	2.507	492.99	ppb	2.507	0.51%
QC value within limits for Cd 226.502 Recovery = 98.60%								
Co 228.616†	16718.1	499.44	µg/L	1.174	499.44	ppb	1.174	0.24%

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   QC value within limits for Co 228.616  Recovery = 99.89%
Cr 267.716†            23295.4      500.12 µg/L         2.880      500.12 ppb          2.880   0.58%
   QC value within limits for Cr 267.716  Recovery = 100.02%
Cu 324.752†            96895.9      510.59 µg/L         1.771      510.59 ppb          1.771   0.35%
   QC value within limits for Cu 324.752  Recovery = 102.12%
Fe 238.204 Radial†      4783.2      5146.1 µg/L         15.52      5146.1 ppb          15.52   0.30%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.92%
K 766.490 Radial†       5996.2      5201.8 µg/L         20.40      5201.8 ppb          20.40   0.39%
   QC value within limits for K 766.490 Radial  Recovery = 104.04%
Mg 279.077 IEC†          662.3      5199.5 µg/L         25.17      5199.5 ppb          25.17   0.48%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.99%
Mn 257.610†           301275.4      497.32 µg/L         1.973      497.32 ppb          1.973   0.40%
   QC value within limits for Mn 257.610  Recovery = 99.46%
Mo 202.031†             4232.3      501.02 µg/L         1.267      501.02 ppb          1.267   0.25%
   QC value within limits for Mo 202.031  Recovery = 100.20%
Na 589.592 Radial†      1757.6       10386 µg/L           2.5       10386 ppb            2.5   0.02%
   QC value within limits for Na 589.592 Radial  Recovery = 103.86%
Ni 231.604†            13369.7      501.39 µg/L         2.776      501.39 ppb          2.776   0.55%
   QC value within limits for Ni 231.604  Recovery = 100.28%
P 214.914†              2572.1      2417.4 µg/L         22.50      2417.4 ppb          22.50   0.93%
   QC value within limits for P 214.914  Recovery = 96.70%
Pb 220.353†             2493.0      492.00 µg/L         5.147      492.00 ppb          5.147   1.05%
   QC value within limits for Pb 220.353  Recovery = 98.40%
S 181.975 Axial†         343.1      948.13 µg/L         3.840      948.13 ppb          3.840   0.41%
   QC value within limits for S 181.975 Axial  Recovery = 94.81%
Sb 206.836†              930.9      488.45 µg/L         4.326      488.45 ppb          4.326   0.89%
   QC value within limits for Sb 206.836  Recovery = 97.69%
Se 196.026†              252.9      491.50 µg/L         7.615      491.50 ppb          7.615   1.55%
   QC value within limits for Se 196.026  Recovery = 98.30%
SiO2†                  41774.7      5277.9 µg/L         24.71      5277.9 ppb          24.71   0.47%
   QC value within limits for SiO2  Recovery = 98.70%
Si 251.611†            43712.0      2439.7 µg/L         10.29      2439.7 ppb          10.29   0.42%
   QC value within limits for Si 251.611  Recovery = 97.59%
Sn 189.927†             1591.3      490.23 µg/L         3.347      490.23 ppb          3.347   0.68%
   QC value within limits for Sn 189.927  Recovery = 98.05%
Sr 421.552†            34969.6      513.75 µg/L         2.750      513.75 ppb          2.750   0.54%
   QC value within limits for Sr 421.552  Recovery = 102.75%
Ti 334.940†           186834.0      511.02 µg/L         1.228      511.02 ppb          1.228   0.24%
   QC value within limits for Ti 334.940  Recovery = 102.20%
Tl 190.801†              992.8      499.48 µg/L         3.397      499.48 ppb          3.397   0.68%
   QC value within limits for Tl 190.801  Recovery = 99.90%
U 367.007†              1463.6       461.0 µg/L          3.53       461.0 ppb           3.53   0.77%
   QC value within limits for U 367.007  Recovery = 92.20%
V 292.402†             49331.8      506.71 µg/L         1.500      506.71 ppb          1.500   0.30%
   QC value within limits for V 292.402  Recovery = 101.34%
Zn 213.857†            36706.0      494.95 µg/L         2.459      494.95 ppb          2.459   0.50%
   QC value within limits for Zn 213.857  Recovery = 98.99%
All analyte(s) passed QC.
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Sequence No.: 28 **Autosampler Location: 109**
Sample ID: PQL **Date Collected: 11/5/2013 10:46:57**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6178.4	6178.4	96.0	%			10:47:28
1	Al 396.153Radial†	56.2	233.8	243.79	µg/L	243.79	ppb	10:47:28
1	Ca 317.933Radial†	249.4	212.8	204.71	µg/L	204.71	ppb	10:47:48
1	Fe 238.204 Radial†	132.1	97.6	104.91	µg/L	104.91	ppb	10:47:48
1	K 766.490 Radial†	755.8	125.4	108.77	µg/L	108.77	ppb	10:47:28
1	Mg 279.077 IEC†	46.7	40.4	316.80	µg/L	316.80	ppb	10:47:48
1	Na 589.592 Radial†	-116.0	62.3	368.09	µg/L	368.09	ppb	10:47:28
1	Sr 421.552†	-484.4	381.6	5.6060	µg/L	5.6060	ppb	10:47:28
1	Sc 361.383	549385.9	549385.9	96.916	%			10:48:45
1	Y 371.029	502454.5	502454.5	96.480	%			10:48:45
1	Ag 328.068†	455.7	717.1	4.9896	µg/L	4.9896	ppb	10:48:45
1	As 188.979†	25.0	38.2	31.708	µg/L	31.708	ppb	10:49:05
1	B 249.677†	1690.7	1518.6	50.954	µg/L	50.954	ppb	10:48:45
1	Ba 233.527†	415.5	482.8	5.1287	µg/L	5.1287	ppb	10:49:05
1	Be 313.107†	3986.7	9621.9	5.1572	µg/L	5.1572	ppb	10:48:45
1	Cd 226.502†	170.0	333.9	5.3913	µg/L	5.3913	ppb	10:49:05
1	Co 228.616†	61.1	178.4	5.3371	µg/L	5.3371	ppb	10:49:05
1	Cr 267.716†	316.5	245.5	5.2631	µg/L	5.2631	ppb	10:49:05
1	Cu 324.752†	4288.7	2070.4	10.918	µg/L	10.918	ppb	10:48:45
1	Mn 257.610†	6810.6	6632.0	10.939	µg/L	10.939	ppb	10:48:45
1	Mo 202.031†	90.0	81.6	9.6599	µg/L	9.6599	ppb	10:49:05
1	Ni 231.604†	32.9	147.3	5.5234	µg/L	5.5234	ppb	10:49:05
1	P 214.914†	211.0	163.4	154.22	µg/L	154.22	ppb	10:49:05
1	Pb 220.353†	209.5	45.4	8.8751	µg/L	8.8751	ppb	10:49:05
1	S 181.975 Axial†	88.8	39.4	108.02	µg/L	108.02	ppb	10:49:05
1	Sb 206.836†	91.6	30.8	16.310	µg/L	16.310	ppb	10:49:05
1	Se 196.026†	-25.0	24.6	47.031	µg/L	47.031	ppb	10:49:05
1	SiO2†	2822.6	1723.0	219.24	µg/L	219.24	ppb	10:48:45
1	Si 251.611†	1901.4	1665.0	93.971	µg/L	93.971	ppb	10:49:05
1	Sn 189.927†	66.3	45.3	13.938	µg/L	13.938	ppb	10:49:05
1	Ti 334.940†	1280.7	1807.4	4.9377	µg/L	4.9377	ppb	10:48:45
1	Tl 190.801†	12.2	38.8	19.458	µg/L	19.458	ppb	10:49:05
1	U 367.007†	594.8	76.0	24.73	µg/L	24.73	ppb	10:48:45
1	V 292.402†	577.9	520.4	5.4123	µg/L	5.4123	ppb	10:48:45
1	Zn 213.857†	1444.8	779.5	10.537	µg/L	10.537	ppb	10:49:05
2	Sc RADIAL	6194.1	6194.1	96.3	%			10:47:53
2	Al 396.153Radial†	57.5	235.1	245.12	µg/L	245.12	ppb	10:47:53
2	Ca 317.933Radial†	246.1	208.7	200.80	µg/L	200.80	ppb	10:48:13
2	Fe 238.204 Radial†	130.3	95.3	102.49	µg/L	102.49	ppb	10:48:13
2	K 766.490 Radial†	864.7	236.6	205.45	µg/L	205.45	ppb	10:47:53
2	Mg 279.077 IEC†	50.6	44.3	347.46	µg/L	347.46	ppb	10:48:13
2	Na 589.592 Radial†	-134.3	43.6	257.36	µg/L	257.36	ppb	10:47:53
2	Sr 421.552†	-471.0	396.9	5.8305	µg/L	5.8305	ppb	10:47:53
2	Sc 361.383	548653.0	548653.0	96.787	%			10:49:11
2	Y 371.029	501851.6	501851.6	96.364	%			10:49:11
2	Ag 328.068†	447.1	708.8	4.9322	µg/L	4.9322	ppb	10:49:11
2	As 188.979†	29.2	42.5	35.310	µg/L	35.310	ppb	10:49:31
2	B 249.677†	1688.6	1518.7	50.914	µg/L	50.914	ppb	10:49:11
2	Ba 233.527†	408.9	476.6	5.0624	µg/L	5.0624	ppb	10:49:31
2	Be 313.107†	4038.6	9680.9	5.1918	µg/L	5.1918	ppb	10:49:11
2	Cd 226.502†	167.3	331.3	5.3494	µg/L	5.3494	ppb	10:49:31
2	Co 228.616†	71.4	189.1	5.6562	µg/L	5.6562	ppb	10:49:31
2	Cr 267.716†	330.4	260.4	5.5736	µg/L	5.5736	ppb	10:49:31
2	Cu 324.752†	4158.5	1941.8	10.250	µg/L	10.250	ppb	10:49:11
2	Mn 257.610†	6803.4	6634.0	10.941	µg/L	10.941	ppb	10:49:11
2	Mo 202.031†	88.8	80.5	9.5261	µg/L	9.5261	ppb	10:49:31
2	Ni 231.604†	22.8	136.8	5.1324	µg/L	5.1324	ppb	10:49:31
2	P 214.914†	209.5	162.2	153.07	µg/L	153.07	ppb	10:49:31
2	Pb 220.353†	211.5	47.8	9.3425	µg/L	9.3425	ppb	10:49:31

2	S 181.975 Axial†	81.2	31.6	86.725 µg/L	86.725 ppb		10:49:31
2	Sb 206.836†	82.9	21.9	11.593 µg/L	11.593 ppb		10:49:31
2	Se 196.026†	-35.1	14.0	27.097 µg/L	27.097 ppb		10:49:31
2	SiO2†	2851.3	1756.5	221.47 µg/L	221.47 ppb		10:49:11
2	Si 251.611†	1904.0	1670.3	93.253 µg/L	93.253 ppb		10:49:31
2	Sn 189.927†	63.8	42.8	13.177 µg/L	13.177 ppb		10:49:31
2	Ti 334.940†	1380.0	1911.8	5.2161 µg/L	5.2161 ppb		10:49:11
2	Tl 190.801†	17.2	44.0	22.087 µg/L	22.087 ppb		10:49:31
2	U 367.007†	635.4	118.8	38.97 µg/L	38.97 ppb		10:49:11
2	V 292.402†	585.9	529.5	5.5145 µg/L	5.5145 ppb		10:49:11
2	Zn 213.857†	1432.1	768.4	10.389 µg/L	10.389 ppb		10:49:31
3	Sc RADIAL	6179.3	6179.3	96.0 %			10:48:19
3	Al 396.153Radial†	40.2	217.1	226.33 µg/L	226.33 ppb		10:48:19
3	Ca 317.933Radial†	242.7	205.8	197.98 µg/L	197.98 ppb		10:48:39
3	Fe 238.204 Radial†	135.5	101.1	108.69 µg/L	108.69 ppb		10:48:39
3	K 766.490 Radial†	785.7	156.5	135.82 µg/L	135.82 ppb		10:48:19
3	Mg 279.077 IEC†	49.2	42.9	337.00 µg/L	337.00 ppb		10:48:39
3	Na 589.592 Radial†	-140.4	36.9	218.10 µg/L	218.10 ppb		10:48:19
3	Sr 421.552†	-510.3	354.8	5.2122 µg/L	5.2122 ppb		10:48:19
3	Sc 361.383	550350.4	550350.4	97.086 %			10:49:36
3	Y 371.029	503076.5	503076.5	96.600 %			10:49:36
3	Ag 328.068†	467.7	728.6	5.0722 µg/L	5.0722 ppb		10:49:36
3	As 188.979†	30.6	43.9	36.420 µg/L	36.420 ppb		10:49:56
3	B 249.677†	1646.3	1469.7	49.299 µg/L	49.299 ppb		10:49:36
3	Ba 233.527†	398.7	464.8	4.9377 µg/L	4.9377 ppb		10:49:56
3	Be 313.107†	4110.4	9742.1	5.2276 µg/L	5.2276 ppb		10:49:36
3	Cd 226.502†	149.8	312.7	5.0494 µg/L	5.0494 ppb		10:49:56
3	Co 228.616†	69.3	186.7	5.5870 µg/L	5.5870 ppb		10:49:56
3	Cr 267.716†	283.7	211.2	4.5082 µg/L	4.5082 ppb		10:49:56
3	Cu 324.752†	4220.8	1992.7	10.527 µg/L	10.527 ppb		10:49:36
3	Mn 257.610†	6823.1	6632.7	10.940 µg/L	10.940 ppb		10:49:36
3	Mo 202.031†	95.6	87.2	10.324 µg/L	10.324 ppb		10:49:56
3	Ni 231.604†	16.3	130.1	4.8791 µg/L	4.8791 ppb		10:49:56
3	P 214.914†	198.2	149.8	141.37 µg/L	141.37 ppb		10:49:56
3	Pb 220.353†	243.0	79.5	15.613 µg/L	15.613 ppb		10:49:56
3	S 181.975 Axial†	87.7	38.0	104.31 µg/L	104.31 ppb		10:49:56
3	Sb 206.836†	78.8	17.4	9.2377 µg/L	9.2377 ppb		10:49:56
3	Se 196.026†	-28.4	21.1	40.561 µg/L	40.561 ppb		10:49:56
3	SiO2†	2837.2	1732.9	220.15 µg/L	220.15 ppb		10:49:36
3	Si 251.611†	1942.8	1704.2	95.918 µg/L	95.918 ppb		10:49:56
3	Sn 189.927†	60.7	39.5	12.144 µg/L	12.144 ppb		10:49:56
3	Ti 334.940†	1338.0	1864.1	5.0783 µg/L	5.0783 ppb		10:49:36
3	Tl 190.801†	5.4	31.7	15.972 µg/L	15.972 ppb		10:49:56
3	U 367.007†	685.3	168.2	55.36 µg/L	55.36 ppb		10:49:36
3	V 292.402†	614.1	556.7	5.8095 µg/L	5.8095 ppb		10:49:36
3	Zn 213.857†	1436.9	768.8	10.396 µg/L	10.396 ppb		10:49:56

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	549463.1	96.930	%	0.1502				0.15%
Sc RADIAL	6183.9	96.1	%	0.14				0.14%
Y 371.029	502460.8	96.481	%	0.1176				0.12%
Ag 328.068†	718.2	4.9980	µg/L	0.07039	4.9980	ppb	0.07039	1.41%
QC value within limits for Ag 328.068 Recovery = 99.96%								
Al 396.153Radial†	228.7	238.41	µg/L	10.489	238.41	ppb	10.489	4.40%
QC value within limits for Al 396.153Radial Recovery = 119.21%								
As 188.979†	41.5	34.479	µg/L	2.4634	34.479	ppb	2.4634	7.14%
QC value within limits for As 188.979 Recovery = 114.93%								
B 249.677†	1502.3	50.389	µg/L	0.9443	50.389	ppb	0.9443	1.87%
QC value within limits for B 249.677 Recovery = 100.78%								
Ba 233.527†	474.7	5.0429	µg/L	0.09700	5.0429	ppb	0.09700	1.92%
QC value within limits for Ba 233.527 Recovery = 100.86%								
Be 313.107†	9681.6	5.1922	µg/L	0.03522	5.1922	ppb	0.03522	0.68%
QC value within limits for Be 313.107 Recovery = 103.84%								
Ca 317.933Radial†	209.1	201.16	µg/L	3.377	201.16	ppb	3.377	1.68%
QC value within limits for Ca 317.933Radial Recovery = 100.58%								
Cd 226.502†	326.0	5.2634	µg/L	0.18649	5.2634	ppb	0.18649	3.54%
QC value within limits for Cd 226.502 Recovery = 105.27%								
Co 228.616†	184.8	5.5268	µg/L	0.16789	5.5268	ppb	0.16789	3.04%

```
   QC value within limits for Co 228.616  Recovery = 110.54%
Cr 267.716†              239.0      5.1150 µg/L       0.54794      5.1150 ppb        0.54794  10.71%
   QC value within limits for Cr 267.716  Recovery = 102.30%
Cu 324.752†             2001.6      10.565 µg/L        0.3360      10.565 ppb         0.3360   3.18%
   QC value within limits for Cu 324.752  Recovery = 105.65%
Fe 238.204 Radial†        98.0      105.37 µg/L         3.122      105.37 ppb          3.122   2.96%
   QC value within limits for Fe 238.204 Radial  Recovery = 105.37%
K 766.490 Radial†        172.8      150.01 µg/L        49.881      150.01 ppb         49.881  33.25%
   QC value within limits for K 766.490 Radial  Recovery = 100.01%
Mg 279.077 IEC†           42.5      333.75 µg/L        15.584      333.75 ppb         15.584   4.67%
   QC value within limits for Mg 279.077 IEC  Recovery = 111.25%
Mn 257.610†             6632.9      10.940 µg/L        0.0010      10.940 ppb         0.0010   0.01%
   QC value within limits for Mn 257.610  Recovery = 109.40%
Mo 202.031†               83.1      9.8368 µg/L       0.42751      9.8368 ppb        0.42751   4.35%
   QC value within limits for Mo 202.031  Recovery = 98.37%
Na 589.592 Radial†        47.6      281.18 µg/L        77.778      281.18 ppb         77.778  27.66%
   QC value within limits for Na 589.592 Radial  Recovery = 93.73%
Ni 231.604†              138.1      5.1783 µg/L       0.32458      5.1783 ppb        0.32458   6.27%
   QC value within limits for Ni 231.604  Recovery = 103.57%
P 214.914†               158.4      149.55 µg/L         7.107      149.55 ppb          7.107   4.75%
   QC value within limits for P 214.914  Recovery = 99.70%
Pb 220.353†               57.5      11.277 µg/L        3.7624      11.277 ppb         3.7624  33.36%
   QC value within limits for Pb 220.353  Recovery = 112.77%
S 181.975 Axial†          36.3      99.685 µg/L       11.3761      99.685 ppb        11.3761  11.41%
   QC value within limits for S 181.975 Axial  Recovery = 99.69%
Sb 206.836†               23.4      12.380 µg/L        3.6014      12.380 ppb         3.6014  29.09%
   QC value within limits for Sb 206.836  Recovery = 123.80%
Se 196.026†               19.9      38.230 µg/L       10.1694      38.230 ppb        10.1694  26.60%
   QC value within limits for Se 196.026  Recovery = 127.43%
SiO2†                   1737.5      220.29 µg/L         1.123      220.29 ppb          1.123   0.51%
   QC value within limits for SiO2  Recovery = 103.42%
Si 251.611†             1679.8      94.381 µg/L        1.3793      94.381 ppb         1.3793   1.46%
   QC value within limits for Si 251.611  Recovery = 94.38%
Sn 189.927†               42.5      13.086 µg/L        0.9008      13.086 ppb         0.9008   6.88%
   QC value greater than the upper limit for Sn 189.927  Recovery = 130.86%
Sr 421.552†              377.8      5.5496 µg/L       0.31304      5.5496 ppb        0.31304   5.64%
   QC value within limits for Sr 421.552  Recovery = 110.99%
Ti 334.940†             1861.1      5.0774 µg/L       0.13923      5.0774 ppb        0.13923   2.74%
   QC value within limits for Ti 334.940  Recovery = 101.55%
Tl 190.801†               38.2      19.172 µg/L        3.0677      19.172 ppb         3.0677  16.00%
   QC value within limits for Tl 190.801  Recovery = 95.86%
U 367.007†               121.0       39.69 µg/L        15.330       39.69 ppb         15.330  38.63%
   QC value within limits for U 367.007  Recovery = 79.37%
V 292.402†               535.5      5.5788 µg/L       0.20623      5.5788 ppb        0.20623   3.70%
   QC value within limits for V 292.402  Recovery = 111.58%
Zn 213.857†              772.2      10.441 µg/L        0.0834      10.441 ppb         0.0834   0.80%
   QC value within limits for Zn 213.857  Recovery = 104.41%
QC Failed.  Continue with analysis.
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Sequence No.: 29 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 10:50:04**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6166.1	6166.1	95.8	%			10:50:35
1	Al 396.153Radial†	-145.4	23.6	24.687	µg/L	24.687	ppb	10:50:35
1	Ca 317.933Radial†	49.6	4.8	4.6105	µg/L	4.6105	ppb	10:50:55
1	Fe 238.204 Radial†	33.5	-5.0	-5.4095	µg/L	-5.4095	ppb	10:50:55
1	K 766.490 Radial†	680.5	48.4	42.094	µg/L	42.094	ppb	10:50:35
1	Mg 279.077 IEC†	7.7	-0.3	-2.4519	µg/L	-2.4519	ppb	10:50:55
1	Na 589.592 Radial†	-175.0	0.5	2.8226	µg/L	2.8226	ppb	10:50:35
1	Sr 421.552†	-853.2	-4.2	-0.0613	µg/L	-0.0613	ppb	10:50:35
1	Sc 361.383	545690.1	545690.1	96.264	%			10:51:52
1	Y 371.029	501192.2	501192.2	96.238	%			10:51:52
1	Ag 328.068†	-374.4	-142.1	-0.9798	µg/L	-0.9798	ppb	10:51:52
1	As 188.979†	-18.8	-7.1	-5.9229	µg/L	-5.9229	ppb	10:52:12
1	B 249.677†	266.4	50.8	1.6887	µg/L	1.6887	ppb	10:51:52
1	Ba 233.527†	-49.0	3.2	0.0336	µg/L	0.0336	ppb	10:52:12
1	Be 313.107†	-5226.7	78.7	0.0357	µg/L	0.0357	ppb	10:51:52
1	Cd 226.502†	-164.9	-12.9	-0.2082	µg/L	-0.2082	ppb	10:52:12
1	Co 228.616†	-128.0	-17.6	-0.5269	µg/L	-0.5269	ppb	10:52:12
1	Cr 267.716†	88.4	10.8	0.2517	µg/L	0.2517	ppb	10:51:52
1	Cu 324.752†	2354.1	90.6	0.4580	µg/L	0.4580	ppb	10:51:52
1	Mn 257.610†	404.7	25.1	0.0411	µg/L	0.0411	ppb	10:51:52
1	Mo 202.031†	12.5	1.7	0.2049	µg/L	0.2049	ppb	10:52:12
1	Ni 231.604†	-110.2	-1.2	-0.0463	µg/L	-0.0463	ppb	10:52:12
1	P 214.914†	40.0	-12.8	-12.143	µg/L	-12.143	ppb	10:52:12
1	Pb 220.353†	143.7	-21.5	-4.2448	µg/L	-4.2448	ppb	10:52:12
1	S 181.975 Axial†	50.8	0.6	1.5330	µg/L	1.5330	ppb	10:52:12
1	Sb 206.836†	59.1	-2.3	-1.2263	µg/L	-1.2263	ppb	10:52:12
1	Se 196.026†	-41.7	7.0	13.129	µg/L	13.129	ppb	10:52:12
1	SiO2†	1188.4	45.1	4.5434	µg/L	4.5434	ppb	10:51:52
1	Si 251.611†	293.9	8.4	0.0299	µg/L	0.0299	ppb	10:52:12
1	Sn 189.927†	24.3	2.2	0.6705	µg/L	0.6705	ppb	10:52:12
1	Ti 334.940†	-481.8	-14.5	-0.0248	µg/L	-0.0248	ppb	10:51:52
1	Tl 190.801†	-28.8	-3.7	-1.8797	µg/L	-1.8797	ppb	10:52:12
1	U 367.007†	426.3	-94.9	-31.53	µg/L	-31.53	ppb	10:51:52
1	V 292.402†	38.5	-35.9	-0.3861	µg/L	-0.3861	ppb	10:51:52
1	Zn 213.857†	692.9	8.6	0.1171	µg/L	0.1171	ppb	10:52:12
2	Sc RADIAL	6155.7	6155.7	95.7	%			10:51:00
2	Al 396.153Radial†	-186.0	-19.1	-20.018	µg/L	-20.018	ppb	10:51:00
2	Ca 317.933Radial†	43.2	-1.7	-1.6706	µg/L	-1.6706	ppb	10:51:20
2	Fe 238.204 Radial†	35.8	-2.6	-2.7388	µg/L	-2.7388	ppb	10:51:20
2	K 766.490 Radial†	567.9	-68.0	-59.145	µg/L	-59.145	ppb	10:51:00
2	Mg 279.077 IEC†	6.1	-2.0	-15.317	µg/L	-15.317	ppb	10:51:20
2	Na 589.592 Radial†	-164.3	11.3	66.625	µg/L	66.625	ppb	10:51:00
2	Sr 421.552†	-851.4	-3.8	-0.0561	µg/L	-0.0561	ppb	10:51:00
2	Sc 361.383	546308.9	546308.9	96.373	%			10:52:18
2	Y 371.029	501939.8	501939.8	96.381	%			10:52:18
2	Ag 328.068†	-363.5	-130.4	-0.8936	µg/L	-0.8936	ppb	10:52:18
2	As 188.979†	-9.7	2.3	1.8893	µg/L	1.8893	ppb	10:52:38
2	B 249.677†	276.3	60.8	2.0715	µg/L	2.0715	ppb	10:52:18
2	Ba 233.527†	-53.5	-1.3	-0.0133	µg/L	-0.0133	ppb	10:52:38
2	Be 313.107†	-5477.3	-175.2	-0.0961	µg/L	-0.0961	ppb	10:52:18
2	Cd 226.502†	-168.4	-16.4	-0.2641	µg/L	-0.2641	ppb	10:52:38
2	Co 228.616†	-100.1	11.6	0.3461	µg/L	0.3461	ppb	10:52:38
2	Cr 267.716†	117.3	40.7	0.8807	µg/L	0.8807	ppb	10:52:18
2	Cu 324.752†	2241.5	-28.9	-0.1604	µg/L	-0.1604	ppb	10:52:18
2	Mn 257.610†	430.0	50.9	0.0843	µg/L	0.0843	ppb	10:52:18
2	Mo 202.031†	18.3	7.7	0.9058	µg/L	0.9058	ppb	10:52:38
2	Ni 231.604†	-101.0	8.5	0.3176	µg/L	0.3176	ppb	10:52:38
2	P 214.914†	54.7	2.5	2.3163	µg/L	2.3163	ppb	10:52:38
2	Pb 220.353†	167.6	3.1	0.6301	µg/L	0.6301	ppb	10:52:38

2	S 181.975 Axial†	49.5	-0.8	-2.2740	µg/L	-2.2740	ppb	10:52:38
2	Sb 206.836†	68.0	6.9	3.6315	µg/L	3.6315	ppb	10:52:38
2	Se 196.026†	-52.2	-3.9	-7.4240	µg/L	-7.4240	ppb	10:52:38
2	SiO2†	1101.0	-47.0	-4.7329	µg/L	-4.7329	ppb	10:52:18
2	Si 251.611†	287.0	0.9	0.6635	µg/L	0.6635	ppb	10:52:38
2	Sn 189.927†	41.3	19.8	6.0699	µg/L	6.0699	ppb	10:52:38
2	Ti 334.940†	-415.7	54.6	0.1549	µg/L	0.1549	ppb	10:52:18
2	Tl 190.801†	-32.6	-7.6	-3.8373	µg/L	-3.8373	ppb	10:52:38
2	U 367.007†	482.7	-36.8	-12.22	µg/L	-12.22	ppb	10:52:18
2	V 292.402†	108.3	36.5	0.3723	µg/L	0.3723	ppb	10:52:18
2	Zn 213.857†	699.5	14.6	0.1971	µg/L	0.1971	ppb	10:52:38
3	Sc RADIAL	6267.6	6267.6	97.4	%			10:51:26
3	Al 396.153Radial†	-137.4	34.2	35.775	µg/L	35.775	ppb	10:51:26
3	Ca 317.933Radial†	44.0	-1.8	-1.6978	µg/L	-1.6978	ppb	10:51:46
3	Fe 238.204 Radial†	42.7	3.8	4.0854	µg/L	4.0854	ppb	10:51:46
3	K 766.490 Radial†	647.9	3.4	2.9592	µg/L	2.9592	ppb	10:51:26
3	Mg 279.077 IEC†	10.3	2.3	17.875	µg/L	17.875	ppb	10:51:46
3	Na 589.592 Radial†	-175.4	3.0	17.533	µg/L	17.533	ppb	10:51:26
3	Sr 421.552†	-877.2	-14.3	-0.2107	µg/L	-0.2107	ppb	10:51:26
3	Sc 361.383	544436.3	544436.3	96.043	%			10:52:43
3	Y 371.029	499981.5	499981.5	96.005	%			10:52:43
3	Ag 328.068†	-363.8	-131.9	-0.9027	µg/L	-0.9027	ppb	10:52:43
3	As 188.979†	-18.1	-6.5	-5.3600	µg/L	-5.3600	ppb	10:53:03
3	B 249.677†	257.6	42.3	1.4174	µg/L	1.4174	ppb	10:52:43
3	Ba 233.527†	-76.2	-25.2	-0.2673	µg/L	-0.2673	ppb	10:53:03
3	Be 313.107†	-5345.7	-57.7	-0.0324	µg/L	-0.0324	ppb	10:52:43
3	Cd 226.502†	-162.5	-10.7	-0.1739	µg/L	-0.1739	ppb	10:53:03
3	Co 228.616†	-101.8	9.3	0.2793	µg/L	0.2793	ppb	10:53:03
3	Cr 267.716†	78.9	1.1	0.0289	µg/L	0.0289	ppb	10:52:43
3	Cu 324.752†	2327.2	68.3	0.3554	µg/L	0.3554	ppb	10:52:43
3	Mn 257.610†	384.3	4.8	0.0076	µg/L	0.0076	ppb	10:52:43
3	Mo 202.031†	9.4	-1.5	-0.1793	µg/L	-0.1793	ppb	10:53:03
3	Ni 231.604†	-87.6	22.1	0.8290	µg/L	0.8290	ppb	10:53:03
3	P 214.914†	49.8	-2.5	-2.3618	µg/L	-2.3618	ppb	10:53:03
3	Pb 220.353†	143.5	-21.4	-4.2468	µg/L	-4.2468	ppb	10:53:03
3	S 181.975 Axial†	55.5	5.5	15.140	µg/L	15.140	ppb	10:53:03
3	Sb 206.836†	60.9	-0.3	-0.1766	µg/L	-0.1766	ppb	10:53:03
3	Se 196.026†	-48.4	-0.1	-0.2382	µg/L	-0.2382	ppb	10:53:03
3	SiO2†	1144.2	2.0	0.1137	µg/L	0.1137	ppb	10:52:43
3	Si 251.611†	289.4	4.4	0.2212	µg/L	0.2212	ppb	10:53:03
3	Sn 189.927†	27.2	5.2	1.6008	µg/L	1.6008	ppb	10:53:03
3	Ti 334.940†	-544.6	-81.0	-0.2185	µg/L	-0.2185	ppb	10:52:43
3	Tl 190.801†	-35.2	-10.4	-5.2382	µg/L	-5.2382	ppb	10:53:03
3	U 367.007†	494.7	-22.6	-7.522	µg/L	-7.522	ppb	10:52:43
3	V 292.402†	105.5	34.0	0.3364	µg/L	0.3364	ppb	10:52:43
3	Zn 213.857†	695.7	13.1	0.1722	µg/L	0.1722	ppb	10:53:03

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	545478.4	96.227	%	0.1683				0.17%
Sc RADIAL	6196.5	96.3	%	0.96				1.00%
Y 371.029	501037.8	96.208	%	0.1898				0.20%
Ag 328.068†	-134.8	-0.9254	µg/L	0.04738	-0.9254	ppb	0.04738	5.12%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	12.9	13.482	µg/L	29.5361	13.482	ppb	29.5361	219.09%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.8	-3.1312	µg/L	4.35699	-3.1312	ppb	4.35699	139.15%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	51.3	1.7259	µg/L	0.32860	1.7259	ppb	0.32860	19.04%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-7.8	-0.0823	µg/L	0.16189	-0.0823	ppb	0.16189	196.60%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-51.4	-0.0309	µg/L	0.06592	-0.0309	ppb	0.06592	213.09%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	0.4	0.4140	µg/L	3.63429	0.4140	ppb	3.63429	877.75%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-13.3	-0.2154	µg/L	0.04555	-0.2154	ppb	0.04555	21.15%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	1.1	0.0328	µg/L	0.48590	0.0328	ppb	0.48590	>999.9%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                17.5      0.3871 µg/L       0.44174      0.3871 ppb        0.44174 114.11%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                43.3      0.2177 µg/L       0.33138      0.2177 ppb        0.33138 152.24%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -1.3     -1.3543 µg/L       4.89648     -1.3543 ppb        4.89648 361.55%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          -5.4     -4.6975 µg/L      51.05203     -4.6975 ppb       51.05203 >999.9%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.0      0.0354 µg/L      16.73542      0.0354 ppb       16.73542 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                26.9      0.0444 µg/L       0.03844      0.0444 ppb        0.03844  86.67%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 2.6      0.3105 µg/L       0.55021      0.3105 ppb        0.55021 177.23%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          4.9      28.994 µg/L       33.4097      28.994 ppb        33.4097 115.23%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 9.8      0.3668 µg/L       0.43971      0.3668 ppb        0.43971 119.88%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -4.3     -4.0630 µg/L       7.37838     -4.0630 ppb        7.37838 181.60%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -13.3     -2.6205 µg/L       2.81513     -2.6205 ppb        2.81513 107.43%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            1.7      4.7995 µg/L       9.15484      4.7995 ppb        9.15484 190.74%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 1.4      0.7428 µg/L       2.55608      0.7428 ppb        2.55608 344.09%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 1.0      1.8222 µg/L      10.43031      1.8222 ppb       10.43031 572.39%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                       0.0     -0.0253 µg/L       4.63969     -0.0253 ppb        4.63969 >999.9%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                 4.5      0.3049 µg/L       0.32498      0.3049 ppb        0.32498 106.60%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 9.1      2.7804 µg/L       2.88654      2.7804 ppb        2.88654 103.82%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                -7.4     -0.1094 µg/L       0.08779     -0.1094 ppb        0.08779  80.27%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -13.6     -0.0295 µg/L       0.18675     -0.0295 ppb        0.18675 633.86%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -7.3     -3.6518 µg/L       1.68692     -3.6518 ppb        1.68692  46.19%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -51.4      -17.09 µg/L        12.726      -17.09 ppb         12.726  74.45%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 11.5      0.1075 µg/L       0.42787      0.1075 ppb        0.42787 397.88%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                12.1      0.1621 µg/L       0.04094      0.1621 ppb        0.04094  25.25%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 32 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 11:00:21**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

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Analysis Begun

Start Time: 11/5/2013 11:03:02 **Plasma On Time: 11/5/2013 5:57:05**
Logged In Analyst: optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: AS-93plus

Sample Information File: C:\pe\Optima3\Sample Information\110513.sif
Batch ID:
Results Data Set: 110513A
Results Library: C:\pe\optima3\Results\Results.mdb

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Sequence No.: 31 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 11:03:02**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6031.2	6031.2	93.7	%			11:03:52
1	Al 396.153Radial†	4520.1	4997.4	5176.7	µg/L	5176.7	ppb	11:03:32
1	Ca 317.933Radial†	5030.3	5319.5	5118.9	µg/L	5118.9	ppb	11:03:52
1	Fe 238.204 Radial†	4676.7	4949.1	5324.6	µg/L	5324.6	ppb	11:03:52
1	K 766.490 Radial†	6331.2	6092.6	5285.4	µg/L	5285.4	ppb	11:03:32
1	Mg 279.077 IEC†	653.6	688.9	5408.8	µg/L	5408.8	ppb	11:03:52
1	Na 589.592 Radial†	1505.7	1789.3	10573	µg/L	10573	ppb	11:03:32
1	Sr 421.552†	32782.0	35858.4	526.81	µg/L	526.81	ppb	11:03:32
1	Sc 361.383	548763.0	548763.0	96.806	%			11:04:49
1	Y 371.029	491206.5	491206.5	94.320	%			11:04:49
1	Ag 328.068†	74045.7	76735.6	531.88	µg/L	531.88	ppb	11:04:54
1	As 188.979†	576.0	607.4	505.34	µg/L	505.34	ppb	11:05:14
1	B 249.677†	14947.0	15214.2	507.47	µg/L	507.47	ppb	11:04:54
1	Ba 233.527†	47115.5	48724.1	517.63	µg/L	517.63	ppb	11:04:54
1	Be 313.107†	918915.9	954742.7	511.16	µg/L	511.16	ppb	11:04:49
1	Cd 226.502†	30393.5	31554.8	510.02	µg/L	510.02	ppb	11:04:54
1	Co 228.616†	16574.9	17237.1	514.94	µg/L	514.94	ppb	11:04:54
1	Cr 267.716†	23412.4	24103.9	517.47	µg/L	517.47	ppb	11:04:54
1	Cu 324.752†	99246.0	100165.7	527.82	µg/L	527.82	ppb	11:04:54
1	Mn 257.610†	301446.1	310996.7	513.37	µg/L	513.37	ppb	11:04:54
1	Mo 202.031†	4249.0	4377.9	518.26	µg/L	518.26	ppb	11:05:14
1	Ni 231.604†	12737.2	13270.7	497.66	µg/L	497.66	ppb	11:05:14
1	P 214.914†	2621.1	2653.3	2493.7	µg/L	2493.7	ppb	11:05:14
1	Pb 220.353†	2646.9	2563.4	505.96	µg/L	505.96	ppb	11:05:14
1	S 181.975 Axial†	399.9	360.9	997.26	µg/L	997.26	ppb	11:05:14
1	Sb 206.836†	992.3	961.3	504.39	µg/L	504.39	ppb	11:05:14
1	Se 196.026†	203.6	260.7	506.64	µg/L	506.64	ppb	11:05:14
1	SiO2†	42910.4	43136.7	5452.1	µg/L	5452.1	ppb	11:04:54
1	Si 251.611†	43949.7	45102.9	2518.2	µg/L	2518.2	ppb	11:04:54
1	Sn 189.927†	1614.8	1645.0	506.75	µg/L	506.75	ppb	11:05:14
1	Ti 334.940†	186474.5	193113.0	528.19	µg/L	528.19	ppb	11:04:54
1	Tl 190.801†	966.1	1024.2	515.31	µg/L	515.31	ppb	11:05:14
1	U 367.007†	2004.8	1533.3	483.3	µg/L	483.3	ppb	11:04:54
1	V 292.402†	49582.1	51142.1	525.29	µg/L	525.29	ppb	11:04:54
1	Zn 213.857†	37373.6	37895.5	511.12	µg/L	511.12	ppb	11:04:54
2	Sc RADIAL	6047.0	6047.0	94.0	%			11:04:17
2	Al 396.153Radial†	4577.8	5046.3	5227.8	µg/L	5227.8	ppb	11:03:57
2	Ca 317.933Radial†	5024.1	5298.9	5099.1	µg/L	5099.1	ppb	11:04:17
2	Fe 238.204 Radial†	4664.7	4923.3	5296.9	µg/L	5296.9	ppb	11:04:17

2	K 766.490 Radial†	6359.9	6105.5	5296.5	µg/L	5296.5	ppb	11:03:57
2	Mg 279.077 IEC†	648.6	681.9	5353.2	µg/L	5353.2	ppb	11:04:17
2	Na 589.592 Radial†	1550.4	1832.7	10829	µg/L	10829	ppb	11:03:57
2	Sr 421.552†	33415.5	36441.3	535.38	µg/L	535.38	ppb	11:03:57
2	Sc 361.383	547621.4	547621.4	96.605	%			11:05:20
2	Y 371.029	490056.6	490056.6	94.100	%			11:05:20
2	Ag 328.068†	73876.2	76719.6	531.75	µg/L	531.75	ppb	11:05:25
2	As 188.979†	584.1	617.0	513.30	µg/L	513.30	ppb	11:05:45
2	B 249.677†	14783.0	15076.6	502.85	µg/L	502.85	ppb	11:05:25
2	Ba 233.527†	46891.5	48593.8	516.25	µg/L	516.25	ppb	11:05:25
2	Be 313.107†	916702.1	954430.0	510.99	µg/L	510.99	ppb	11:05:20
2	Cd 226.502†	30188.4	31407.9	507.64	µg/L	507.64	ppb	11:05:25
2	Co 228.616†	16507.3	17202.8	513.92	µg/L	513.92	ppb	11:05:25
2	Cr 267.716†	23369.5	24109.9	517.60	µg/L	517.60	ppb	11:05:25
2	Cu 324.752†	98877.4	99997.9	526.94	µg/L	526.94	ppb	11:05:25
2	Mn 257.610†	300123.4	310276.7	512.18	µg/L	512.18	ppb	11:05:25
2	Mo 202.031†	4244.6	4382.5	518.81	µg/L	518.81	ppb	11:05:45
2	Ni 231.604†	12760.6	13322.3	499.60	µg/L	499.60	ppb	11:05:45
2	P 214.914†	2625.1	2663.0	2503.0	µg/L	2503.0	ppb	11:05:45
2	Pb 220.353†	2668.8	2591.8	511.53	µg/L	511.53	ppb	11:05:45
2	S 181.975 Axial†	400.1	361.9	1000.1	µg/L	1000.1	ppb	11:05:45
2	Sb 206.836†	994.5	965.7	506.73	µg/L	506.73	ppb	11:05:45
2	Se 196.026†	201.3	258.7	502.91	µg/L	502.91	ppb	11:05:45
2	SiO2†	42783.1	43097.4	5446.8	µg/L	5446.8	ppb	11:05:25
2	Si 251.611†	43774.7	45016.3	2513.1	µg/L	2513.1	ppb	11:05:25
2	Sn 189.927†	1625.5	1659.6	511.23	µg/L	511.23	ppb	11:05:45
2	Ti 334.940†	185785.1	192800.9	527.34	µg/L	527.34	ppb	11:05:25
2	Tl 190.801†	955.2	1015.0	510.69	µg/L	510.69	ppb	11:05:45
2	U 367.007†	1989.8	1522.1	479.7	µg/L	479.7	ppb	11:05:25
2	V 292.402†	49330.8	50988.8	523.74	µg/L	523.74	ppb	11:05:25
2	Zn 213.857†	37195.8	37792.0	509.70	µg/L	509.70	ppb	11:05:25
3	Sc RADIAL	6001.3	6001.3	93.3	%			11:04:42
3	Al 396.153Radial†	4549.8	5053.3	5236.0	µg/L	5236.0	ppb	11:04:22
3	Ca 317.933Radial†	5043.3	5360.2	5158.0	µg/L	5158.0	ppb	11:04:42
3	Fe 238.204 Radial†	4679.3	4976.8	5354.2	µg/L	5354.2	ppb	11:04:42
3	K 766.490 Radial†	6269.2	6059.7	5256.7	µg/L	5256.7	ppb	11:04:22
3	Mg 279.077 IEC†	645.1	683.4	5365.0	µg/L	5365.0	ppb	11:04:42
3	Na 589.592 Radial†	1562.0	1857.7	10977	µg/L	10977	ppb	11:04:22
3	Sr 421.552†	33045.4	36315.1	533.52	µg/L	533.52	ppb	11:04:22
3	Sc 361.383	553151.4	553151.4	97.580	%			11:05:51
3	Y 371.029	495208.4	495208.4	95.089	%			11:05:51
3	Ag 328.068†	73301.7	75366.4	522.41	µg/L	522.41	ppb	11:05:56
3	As 188.979†	562.0	588.3	489.47	µg/L	489.47	ppb	11:06:16
3	B 249.677†	14739.0	14878.5	496.22	µg/L	496.22	ppb	11:05:56
3	Ba 233.527†	46493.3	47700.4	506.76	µg/L	506.76	ppb	11:05:56
3	Be 313.107†	925153.7	953604.5	510.54	µg/L	510.54	ppb	11:05:51
3	Cd 226.502†	29783.4	30680.4	495.87	µg/L	495.87	ppb	11:05:56
3	Co 228.616†	16365.0	16886.2	504.47	µg/L	504.47	ppb	11:05:56
3	Cr 267.716†	23090.3	23582.0	506.29	µg/L	506.29	ppb	11:05:56
3	Cu 324.752†	97932.2	98006.0	516.43	µg/L	516.43	ppb	11:05:56
3	Mn 257.610†	297713.1	304700.7	502.99	µg/L	502.99	ppb	11:05:56
3	Mo 202.031†	4228.6	4322.2	511.67	µg/L	511.67	ppb	11:06:16
3	Ni 231.604†	12705.2	13133.6	492.53	µg/L	492.53	ppb	11:06:16
3	P 214.914†	2612.5	2622.9	2465.2	µg/L	2465.2	ppb	11:06:16
3	Pb 220.353†	2657.3	2552.4	503.74	µg/L	503.74	ppb	11:06:16
3	S 181.975 Axial†	397.2	354.8	980.47	µg/L	980.47	ppb	11:06:16
3	Sb 206.836†	1000.3	961.4	504.55	µg/L	504.55	ppb	11:06:16
3	Se 196.026†	218.7	274.5	532.69	µg/L	532.69	ppb	11:06:16
3	SiO2†	42379.9	42241.4	5336.9	µg/L	5336.9	ppb	11:05:56
3	Si 251.611†	43338.3	44116.2	2462.1	µg/L	2462.1	ppb	11:05:56
3	Sn 189.927†	1598.9	1615.4	497.67	µg/L	497.67	ppb	11:06:16
3	Ti 334.940†	184080.3	189131.2	517.32	µg/L	517.32	ppb	11:05:56
3	Tl 190.801†	961.3	1011.3	508.78	µg/L	508.78	ppb	11:06:16
3	U 367.007†	1924.1	1434.1	450.1	µg/L	450.1	ppb	11:05:56
3	V 292.402†	48954.1	50092.2	514.53	µg/L	514.53	ppb	11:05:56
3	Zn 213.857†	36769.9	36970.6	498.58	µg/L	498.58	ppb	11:05:56

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

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Sc 361.383            549845.3      96.997 %           0.5150                                  0.53%
Sc RADIAL               6026.5        93.7 %             0.36                                  0.39%
Y 371.029             492157.1      94.503 %           0.5193                                  0.55%
Ag 328.068†            76273.8      528.68 µg/L         5.428      528.68 ppb          5.428   1.03%
   QC value within limits for Ag 328.068  Recovery = 105.74%
Al 396.153Radial†       5032.3      5213.5 µg/L         32.13      5213.5 ppb          32.13   0.62%
   QC value within limits for Al 396.153Radial  Recovery = 104.27%
As 188.979†              604.2      502.70 µg/L        12.131      502.70 ppb         12.131   2.41%
   QC value within limits for As 188.979  Recovery = 100.54%
B 249.677†             15056.4      502.18 µg/L         5.657      502.18 ppb          5.657   1.13%
   QC value within limits for B 249.677  Recovery = 100.44%
Ba 233.527†            48339.4      513.55 µg/L         5.921      513.55 ppb          5.921   1.15%
   QC value within limits for Ba 233.527  Recovery = 102.71%
Be 313.107†           954259.1      510.90 µg/L         0.319      510.90 ppb          0.319   0.06%
   QC value within limits for Be 313.107  Recovery = 102.18%
Ca 317.933Radial†       5326.2      5125.3 µg/L         30.00      5125.3 ppb          30.00   0.59%
   QC value within limits for Ca 317.933Radial  Recovery = 102.51%
Cd 226.502†            31214.4      504.51 µg/L         7.576      504.51 ppb          7.576   1.50%
   QC value within limits for Cd 226.502  Recovery = 100.90%
Co 228.616†            17108.7      511.11 µg/L         5.776      511.11 ppb          5.776   1.13%
   QC value within limits for Co 228.616  Recovery = 102.22%
Cr 267.716†            23931.9      513.79 µg/L         6.497      513.79 ppb          6.497   1.26%
   QC value within limits for Cr 267.716  Recovery = 102.76%
Cu 324.752†            99389.8      523.73 µg/L         6.336      523.73 ppb          6.336   1.21%
   QC value within limits for Cu 324.752  Recovery = 104.75%
Fe 238.204 Radial†      4949.8      5325.3 µg/L         28.68      5325.3 ppb          28.68   0.54%
   QC value within limits for Fe 238.204 Radial  Recovery = 106.51%
K 766.490 Radial†       6085.9      5279.5 µg/L         20.54      5279.5 ppb          20.54   0.39%
   QC value within limits for K 766.490 Radial  Recovery = 105.59%
Mg 279.077 IEC†          684.7      5375.7 µg/L         29.29      5375.7 ppb          29.29   0.54%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.51%
Mn 257.610†           308658.0      509.51 µg/L         5.683      509.51 ppb          5.683   1.12%
   QC value within limits for Mn 257.610  Recovery = 101.90%
Mo 202.031†             4360.9      516.25 µg/L         3.972      516.25 ppb          3.972   0.77%
   QC value within limits for Mo 202.031  Recovery = 103.25%
Na 589.592 Radial†      1826.6       10793 µg/L         204.5       10793 ppb          204.5   1.89%
   QC value within limits for Na 589.592 Radial  Recovery = 107.93%
Ni 231.604†            13242.2      496.60 µg/L         3.655      496.60 ppb          3.655   0.74%
   QC value within limits for Ni 231.604  Recovery = 99.32%
P 214.914†              2646.4      2487.3 µg/L         19.67      2487.3 ppb          19.67   0.79%
   QC value within limits for P 214.914  Recovery = 99.49%
Pb 220.353†             2569.2      507.08 µg/L         4.014      507.08 ppb          4.014   0.79%
   QC value within limits for Pb 220.353  Recovery = 101.42%
S 181.975 Axial†         359.2      992.61 µg/L        10.606      992.61 ppb         10.606   1.07%
   QC value within limits for S 181.975 Axial  Recovery = 99.26%
Sb 206.836†              962.8      505.22 µg/L         1.305      505.22 ppb          1.305   0.26%
   QC value within limits for Sb 206.836  Recovery = 101.04%
Se 196.026†              264.6      514.08 µg/L        16.227      514.08 ppb         16.227   3.16%
   QC value within limits for Se 196.026  Recovery = 102.82%
SiO2†                  42825.2      5411.9 µg/L         65.02      5411.9 ppb          65.02   1.20%
   QC value within limits for SiO2  Recovery = 101.20%
Si 251.611†            44745.1      2497.8 µg/L         31.00      2497.8 ppb          31.00   1.24%
   QC value within limits for Si 251.611  Recovery = 99.91%
Sn 189.927†             1640.0      505.22 µg/L         6.910      505.22 ppb          6.910   1.37%
   QC value within limits for Sn 189.927  Recovery = 101.04%
Sr 421.552†            36204.9      531.90 µg/L         4.506      531.90 ppb          4.506   0.85%
   QC value within limits for Sr 421.552  Recovery = 106.38%
Ti 334.940†           191681.7      524.28 µg/L         6.048      524.28 ppb          6.048   1.15%
   QC value within limits for Ti 334.940  Recovery = 104.86%
Tl 190.801†             1016.8      511.59 µg/L         3.358      511.59 ppb          3.358   0.66%
   QC value within limits for Tl 190.801  Recovery = 102.32%
U 367.007†              1496.5       471.0 µg/L         18.21       471.0 ppb          18.21   3.87%
   QC value within limits for U 367.007  Recovery = 94.21%
V 292.402†             50741.0      521.19 µg/L         5.815      521.19 ppb          5.815   1.12%
   QC value within limits for V 292.402  Recovery = 104.24%
Zn 213.857†            37552.7      506.47 µg/L         6.866      506.47 ppb          6.866   1.36%
   QC value within limits for Zn 213.857  Recovery = 101.29%
All analyte(s) passed QC.
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Sequence No.: 32 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 11:06:24**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6038.3	6038.3	93.8	%			11:06:52
1	Al 396.153Radial†	-191.8	-29.0	-30.391	µg/L	-30.391	ppb	11:06:52
1	Ca 317.933Radial†	46.1	2.2	2.1554	µg/L	2.1554	ppb	11:07:12
1	Fe 238.204 Radial†	46.8	9.9	10.610	µg/L	10.610	ppb	11:07:12
1	K 766.490 Radial†	685.2	68.4	59.484	µg/L	59.484	ppb	11:06:52
1	Mg 279.077 IEC†	6.5	-1.4	-11.018	µg/L	-11.018	ppb	11:07:12
1	Na 589.592 Radial†	-165.2	7.0	41.321	µg/L	41.321	ppb	11:06:52
1	Sr 421.552†	-811.0	22.0	0.3226	µg/L	0.3226	ppb	11:06:52
1	Sc 361.383	527306.9	527306.9	93.021	%			11:08:09
1	Y 371.029	485345.5	485345.5	93.195	%			11:08:09
1	Ag 328.068†	-158.1	76.9	0.5334	µg/L	0.5334	ppb	11:08:09
1	As 188.979†	-7.5	4.3	3.5954	µg/L	3.5954	ppb	11:08:29
1	B 249.677†	245.5	38.0	1.2469	µg/L	1.2469	ppb	11:08:09
1	Ba 233.527†	-78.9	-30.7	-0.3255	µg/L	-0.3255	ppb	11:08:29
1	Be 313.107†	-5120.0	4.2	-0.0001	µg/L	-0.0001	ppb	11:08:09
1	Cd 226.502†	-142.2	5.6	0.0892	µg/L	0.0892	ppb	11:08:29
1	Co 228.616†	-94.7	13.6	0.4070	µg/L	0.4070	ppb	11:08:29
1	Cr 267.716†	89.2	14.9	0.3272	µg/L	0.3272	ppb	11:08:29
1	Cu 324.752†	2370.8	193.8	1.0138	µg/L	1.0138	ppb	11:08:09
1	Mn 257.610†	412.9	48.6	0.0816	µg/L	0.0816	ppb	11:08:09
1	Mo 202.031†	15.9	5.8	0.6874	µg/L	0.6874	ppb	11:08:29
1	Ni 231.604†	-90.9	15.6	0.5836	µg/L	0.5836	ppb	11:08:29
1	P 214.914†	58.2	8.2	7.7302	µg/L	7.7302	ppb	11:08:29
1	Pb 220.353†	147.0	-12.8	-2.5030	µg/L	-2.5030	ppb	11:08:29
1	S 181.975 Axial†	48.0	-0.7	-1.8299	µg/L	-1.8299	ppb	11:08:29
1	Sb 206.836†	48.8	-11.3	-5.9691	µg/L	-5.9691	ppb	11:08:29
1	Se 196.026†	-50.1	-3.5	-6.7999	µg/L	-6.7999	ppb	11:08:29
1	SiO2†	1167.3	65.4	6.9500	µg/L	6.9500	ppb	11:08:09
1	Si 251.611†	271.7	-4.8	-0.9108	µg/L	-0.9108	ppb	11:08:29
1	Sn 189.927†	17.2	-4.6	-1.3983	µg/L	-1.3983	ppb	11:08:29
1	Ti 334.940†	-543.4	-98.3	-0.2633	µg/L	-0.2633	ppb	11:08:09
1	Tl 190.801†	-32.2	-8.4	-4.2179	µg/L	-4.2179	ppb	11:08:29
1	U 367.007†	467.1	-35.5	-11.87	µg/L	-11.87	ppb	11:08:09
1	V 292.402†	101.7	33.4	0.3376	µg/L	0.3376	ppb	11:08:09
1	Zn 213.857†	695.7	36.7	0.4926	µg/L	0.4926	ppb	11:08:29
2	Sc RADIAL	5982.0	5982.0	93.0	%			11:07:17
2	Al 396.153Radial†	-191.0	-30.1	-31.447	µg/L	-31.447	ppb	11:07:17
2	Ca 317.933Radial†	45.6	2.1	2.0039	µg/L	2.0039	ppb	11:07:37
2	Fe 238.204 Radial†	37.2	0.0	0.0152	µg/L	0.0152	ppb	11:07:37
2	K 766.490 Radial†	677.1	66.7	57.980	µg/L	57.980	ppb	11:07:17
2	Mg 279.077 IEC†	8.2	0.5	3.8512	µg/L	3.8512	ppb	11:07:37
2	Na 589.592 Radial†	-173.1	-3.2	-18.629	µg/L	-18.629	ppb	11:07:17
2	Sr 421.552†	-874.0	-53.9	-0.7918	µg/L	-0.7918	ppb	11:07:17
2	Sc 361.383	527311.6	527311.6	93.022	%			11:08:34
2	Y 371.029	485406.2	485406.2	93.207	%			11:08:34
2	Ag 328.068†	-300.0	-75.7	-0.5183	µg/L	-0.5183	ppb	11:08:34
2	As 188.979†	-8.3	3.4	2.8678	µg/L	2.8678	ppb	11:08:54
2	B 249.677†	314.7	112.4	3.7496	µg/L	3.7496	ppb	11:08:34
2	Ba 233.527†	-77.9	-29.6	-0.3142	µg/L	-0.3142	ppb	11:08:54
2	Be 313.107†	-5040.4	89.8	0.0508	µg/L	0.0508	ppb	11:08:34
2	Cd 226.502†	-155.1	-8.3	-0.1347	µg/L	-0.1347	ppb	11:08:54
2	Co 228.616†	-100.8	7.0	0.2086	µg/L	0.2086	ppb	11:08:54
2	Cr 267.716†	112.2	39.7	0.8449	µg/L	0.8449	ppb	11:08:54
2	Cu 324.752†	2375.6	199.0	1.0556	µg/L	1.0556	ppb	11:08:34
2	Mn 257.610†	439.5	77.2	0.1273	µg/L	0.1273	ppb	11:08:34
2	Mo 202.031†	11.7	1.3	0.1498	µg/L	0.1498	ppb	11:08:54
2	Ni 231.604†	-115.4	-10.8	-0.4036	µg/L	-0.4036	ppb	11:08:54
2	P 214.914†	62.6	12.9	12.182	µg/L	12.182	ppb	11:08:54
2	Pb 220.353†	146.4	-13.4	-2.6279	µg/L	-2.6279	ppb	11:08:54

2	S 181.975 Axial†	46.4	-2.3	-6.3975	µg/L	-6.3975	ppb	11:08:54
2	Sb 206.836†	69.6	11.1	5.8401	µg/L	5.8401	ppb	11:08:54
2	Se 196.026†	-38.7	8.7	16.694	µg/L	16.694	ppb	11:08:54
2	SiO2†	1131.5	27.0	2.2944	µg/L	2.2944	ppb	11:08:34
2	Si 251.611†	285.7	10.2	-0.0313	µg/L	-0.0313	ppb	11:08:54
2	Sn 189.927†	29.4	8.5	2.6071	µg/L	2.6071	ppb	11:08:54
2	Ti 334.940†	-437.6	15.6	0.0365	µg/L	0.0365	ppb	11:08:34
2	Tl 190.801†	-33.9	-10.3	-5.1498	µg/L	-5.1498	ppb	11:08:54
2	U 367.007†	534.5	36.9	12.29	µg/L	12.29	ppb	11:08:34
2	V 292.402†	92.8	23.9	0.2558	µg/L	0.2558	ppb	11:08:34
2	Zn 213.857†	678.1	17.8	0.2437	µg/L	0.2437	ppb	11:08:54
3	Sc RADIAL	5924.1	5924.1	92.1	%			11:07:42
3	Al 396.153Radial†	-163.8	-2.6	-2.7232	µg/L	-2.7232	ppb	11:07:42
3	Ca 317.933Radial†	48.9	6.2	5.9291	µg/L	5.9291	ppb	11:08:02
3	Fe 238.204 Radial†	39.3	2.7	2.8901	µg/L	2.8901	ppb	11:08:02
3	K 766.490 Radial†	664.4	60.0	52.115	µg/L	52.115	ppb	11:07:42
3	Mg 279.077 IEC†	11.6	4.3	33.937	µg/L	33.937	ppb	11:08:02
3	Na 589.592 Radial†	-157.9	11.5	68.084	µg/L	68.084	ppb	11:07:42
3	Sr 421.552†	-870.0	-58.7	-0.8627	µg/L	-0.8627	ppb	11:07:42
3	Sc 361.383	528723.7	528723.7	93.271	%			11:09:00
3	Y 371.029	486259.3	486259.3	93.370	%			11:09:00
3	Ag 328.068†	-235.9	-6.1	-0.0400	µg/L	-0.0400	ppb	11:09:00
3	As 188.979†	-21.3	-10.4	-8.6604	µg/L	-8.6604	ppb	11:09:20
3	B 249.677†	259.5	52.2	1.7288	µg/L	1.7288	ppb	11:09:00
3	Ba 233.527†	-60.8	-11.1	-0.1174	µg/L	-0.1174	ppb	11:09:20
3	Be 313.107†	-5020.4	125.7	0.0694	µg/L	0.0694	ppb	11:09:00
3	Cd 226.502†	-154.0	-6.7	-0.1079	µg/L	-0.1079	ppb	11:09:20
3	Co 228.616†	-106.4	1.2	0.0381	µg/L	0.0381	ppb	11:09:20
3	Cr 267.716†	64.7	-11.7	-0.2560	µg/L	-0.2560	ppb	11:09:20
3	Cu 324.752†	2231.8	38.0	0.2059	µg/L	0.2059	ppb	11:09:00
3	Mn 257.610†	404.7	38.6	0.0627	µg/L	0.0627	ppb	11:09:00
3	Mo 202.031†	12.6	2.2	0.2648	µg/L	0.2648	ppb	11:09:20
3	Ni 231.604†	-98.5	7.7	0.2896	µg/L	0.2896	ppb	11:09:20
3	P 214.914†	52.8	2.2	2.1147	µg/L	2.1147	ppb	11:09:20
3	Pb 220.353†	148.0	-12.1	-2.3859	µg/L	-2.3859	ppb	11:09:20
3	S 181.975 Axial†	47.9	-0.9	-2.3377	µg/L	-2.3377	ppb	11:09:20
3	Sb 206.836†	51.5	-8.5	-4.4815	µg/L	-4.4815	ppb	11:09:20
3	Se 196.026†	-52.4	-5.8	-11.042	µg/L	-11.042	ppb	11:09:20
3	SiO2†	1219.9	118.5	14.091	µg/L	14.091	ppb	11:09:00
3	Si 251.611†	289.6	13.6	0.2220	µg/L	0.2220	ppb	11:09:20
3	Sn 189.927†	21.8	0.3	0.1011	µg/L	0.1011	ppb	11:09:20
3	Ti 334.940†	-523.9	-75.7	-0.2118	µg/L	-0.2118	ppb	11:09:00
3	Tl 190.801†	-29.9	-5.9	-2.9283	µg/L	-2.9283	ppb	11:09:20
3	U 367.007†	529.8	30.3	10.07	µg/L	10.07	ppb	11:09:00
3	V 292.402†	80.5	10.4	0.1160	µg/L	0.1160	ppb	11:09:00
3	Zn 213.857†	691.4	30.0	0.4052	µg/L	0.4052	ppb	11:09:20

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	527780.7	93.105	%	0.1441				0.15%
Sc RADIAL	5981.5	93.0	%	0.89				0.95%
Y 371.029	485670.3	93.257	%	0.0981				0.11%
Ag 328.068†	-1.6	-0.0083	µg/L	0.52658	-0.0083	ppb	0.52658	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-20.6	-21.521	µg/L	16.2875	-21.521	ppb	16.2875	75.68%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.9	-0.7324	µg/L	6.87548	-0.7324	ppb	6.87548	938.79%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	67.5	2.2417	µg/L	1.32785	2.2417	ppb	1.32785	59.23%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-23.8	-0.2523	µg/L	0.11703	-0.2523	ppb	0.11703	46.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	73.2	0.0400	µg/L	0.03596	0.0400	ppb	0.03596	89.89%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.5	3.3628	µg/L	2.22377	3.3628	ppb	2.22377	66.13%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-3.1	-0.0511	µg/L	0.12227	-0.0511	ppb	0.12227	239.16%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	7.3	0.2179	µg/L	0.18460	0.2179	ppb	0.18460	84.72%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                14.3      0.3054 µg/L       0.55078      0.3054 ppb        0.55078 180.34%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               143.6      0.7584 µg/L       0.47899      0.7584 ppb        0.47899  63.15%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          4.2      4.5052 µg/L       5.47909      4.5052 ppb        5.47909 121.62%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          65.0      56.526 µg/L        3.8934      56.526 ppb         3.8934   6.89%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             1.1      8.9234 µg/L      22.90275      8.9234 ppb       22.90275 256.66%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                54.8      0.0905 µg/L       0.03322      0.0905 ppb        0.03322  36.70%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 3.1      0.3673 µg/L       0.28306      0.3673 ppb        0.28306  77.06%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          5.1      30.258 µg/L       44.4024      30.258 ppb        44.4024 146.74%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 4.2      0.1565 µg/L       0.50687      0.1565 ppb        0.50687 323.80%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  7.8      7.3423 µg/L       5.04486      7.3423 ppb        5.04486  68.71%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -12.7     -2.5056 µg/L       0.12099     -2.5056 ppb        0.12099   4.83%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -1.3     -3.5217 µg/L       2.50344     -3.5217 ppb        2.50344  71.09%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -2.9     -1.5368 µg/L       6.43179     -1.5368 ppb        6.43179 418.51%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -0.2     -0.3826 µg/L      14.94021     -0.3826 ppb       14.94021 >999.9%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      70.3      7.7783 µg/L       5.94154      7.7783 ppb        5.94154  76.39%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                 6.3     -0.2400 µg/L       0.59456     -0.2400 ppb        0.59456 247.72%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 1.4      0.4366 µg/L       2.02367      0.4366 ppb        2.02367 463.49%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -30.2     -0.4440 µg/L       0.66484     -0.4440 ppb        0.66484 149.75%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -52.8     -0.1462 µg/L       0.16033     -0.1462 ppb        0.16033 109.67%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -8.2     -4.0987 µg/L       1.11555     -4.0987 ppb        1.11555  27.22%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 10.6       3.495 µg/L       13.3563       3.495 ppb        13.3563 382.18%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 22.6      0.2365 µg/L       0.11206      0.2365 ppb        0.11206  47.39%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                28.2      0.3805 µg/L       0.12629      0.3805 ppb        0.12629  33.19%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 10 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 11:46:54**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5980.9	5980.9	93.0	%			11:47:46
1	Al 396.153Radial†	4562.5	5083.6	5267.5	µg/L	5267.5	ppb	11:47:26
1	Ca 317.933Radial†	5000.9	5332.9	5131.8	µg/L	5131.8	ppb	11:47:46
1	Fe 238.204 Radial†	4601.9	4910.7	5283.2	µg/L	5283.2	ppb	11:47:46
1	K 766.490 Radial†	6351.5	6171.2	5353.8	µg/L	5353.8	ppb	11:47:26
1	Mg 279.077 IEC†	628.7	668.0	5244.8	µg/L	5244.8	ppb	11:47:46
1	Na 589.592 Radial†	1498.6	1795.2	10608	µg/L	10608	ppb	11:47:26
1	Sr 421.552†	32556.8	35910.1	527.57	µg/L	527.57	ppb	11:47:26
1	Sc 361.383	549020.6	549020.6	96.851	%			11:48:43
1	Y 371.029	491129.0	491129.0	94.306	%			11:48:43
1	Ag 328.068†	73176.3	75802.0	525.39	µg/L	525.39	ppb	11:48:48
1	As 188.979†	557.3	587.8	489.08	µg/L	489.08	ppb	11:49:08
1	B 249.677†	14651.2	14901.6	496.94	µg/L	496.94	ppb	11:48:48
1	Ba 233.527†	46295.1	47854.2	508.39	µg/L	508.39	ppb	11:48:48
1	Be 313.107†	910553.2	945662.8	506.30	µg/L	506.30	ppb	11:48:43
1	Cd 226.502†	29794.8	30921.8	499.78	µg/L	499.78	ppb	11:48:48
1	Co 228.616†	16336.6	16983.0	507.35	µg/L	507.35	ppb	11:48:48
1	Cr 267.716†	23009.2	23676.2	508.29	µg/L	508.29	ppb	11:48:48
1	Cu 324.752†	98004.0	98835.2	520.82	µg/L	520.82	ppb	11:48:48
1	Mn 257.610†	297123.9	306387.9	505.77	µg/L	505.77	ppb	11:48:48
1	Mo 202.031†	4194.6	4319.7	511.37	µg/L	511.37	ppb	11:49:08
1	Ni 231.604†	12527.9	13048.4	489.33	µg/L	489.33	ppb	11:49:08
1	P 214.914†	2583.3	2613.0	2455.8	µg/L	2455.8	ppb	11:49:08
1	Pb 220.353†	2632.3	2547.0	502.65	µg/L	502.65	ppb	11:49:08
1	S 181.975 Axial†	390.2	350.6	969.09	µg/L	969.09	ppb	11:49:08
1	Sb 206.836†	969.4	937.1	491.68	µg/L	491.68	ppb	11:49:08
1	Se 196.026†	205.0	262.0	509.02	µg/L	509.02	ppb	11:49:08
1	SiO2†	42327.5	42514.2	5370.1	µg/L	5370.1	ppb	11:48:48
1	Si 251.611†	43400.6	44514.6	2483.9	µg/L	2483.9	ppb	11:48:48
1	Sn 189.927†	1575.9	1604.0	494.19	µg/L	494.19	ppb	11:49:08
1	Ti 334.940†	184214.0	190688.5	521.56	µg/L	521.56	ppb	11:48:48
1	Tl 190.801†	936.5	993.1	499.70	µg/L	499.70	ppb	11:49:08
1	U 367.007†	2003.8	1531.3	482.8	µg/L	482.8	ppb	11:48:48
1	V 292.402†	48751.5	50260.5	516.26	µg/L	516.26	ppb	11:48:48
1	Zn 213.857†	36768.6	37252.7	502.44	µg/L	502.44	ppb	11:48:48
2	Sc RADIAL	6031.1	6031.1	93.7	%			11:48:11
2	Al 396.153Radial†	4606.5	5089.8	5274.2	µg/L	5274.2	ppb	11:47:51
2	Ca 317.933Radial†	5037.4	5327.2	5126.3	µg/L	5126.3	ppb	11:48:11
2	Fe 238.204 Radial†	4653.2	4924.2	5297.7	µg/L	5297.7	ppb	11:48:11
2	K 766.490 Radial†	6414.7	6181.8	5362.9	µg/L	5362.9	ppb	11:47:51
2	Mg 279.077 IEC†	646.3	681.2	5348.1	µg/L	5348.1	ppb	11:48:11
2	Na 589.592 Radial†	1541.5	1827.5	10799	µg/L	10799	ppb	11:47:51
2	Sr 421.552†	32867.7	35950.7	528.17	µg/L	528.17	ppb	11:47:51
2	Sc 361.383	548910.1	548910.1	96.832	%			11:49:14
2	Y 371.029	490141.0	490141.0	94.116	%			11:49:14
2	Ag 328.068†	72952.1	75585.7	523.89	µg/L	523.89	ppb	11:49:19
2	As 188.979†	561.4	592.1	492.66	µg/L	492.66	ppb	11:49:39
2	B 249.677†	14563.4	14813.9	494.00	µg/L	494.00	ppb	11:49:19
2	Ba 233.527†	46049.9	47610.7	505.80	µg/L	505.80	ppb	11:49:19
2	Be 313.107†	913081.4	948462.9	507.79	µg/L	507.79	ppb	11:49:14
2	Cd 226.502†	29545.7	30670.7	495.72	µg/L	495.72	ppb	11:49:19
2	Co 228.616†	16166.7	16811.0	502.21	µg/L	502.21	ppb	11:49:19
2	Cr 267.716†	22881.2	23548.8	505.56	µg/L	505.56	ppb	11:49:19
2	Cu 324.752†	97199.4	98024.6	516.54	µg/L	516.54	ppb	11:49:19
2	Mn 257.610†	295495.3	304767.7	503.09	µg/L	503.09	ppb	11:49:19
2	Mo 202.031†	4175.4	4300.8	509.13	µg/L	509.13	ppb	11:49:39
2	Ni 231.604†	12560.9	13085.1	490.71	µg/L	490.71	ppb	11:49:39
2	P 214.914†	2602.2	2632.9	2474.7	µg/L	2474.7	ppb	11:49:39
2	Pb 220.353†	2611.6	2526.2	498.53	µg/L	498.53	ppb	11:49:39

2	S 181.975 Axial†	389.7	350.2	967.72 µg/L	967.72 ppb	11:49:39
2	Sb 206.836†	977.1	945.3	496.03 µg/L	496.03 ppb	11:49:39
2	Se 196.026†	190.7	247.3	481.05 µg/L	481.05 ppb	11:49:39
2	SiO2†	42085.8	42273.3	5338.7 µg/L	5338.7 ppb	11:49:19
2	Si 251.611†	43150.1	44264.9	2469.6 µg/L	2469.6 ppb	11:49:19
2	Sn 189.927†	1589.5	1618.4	498.58 µg/L	498.58 ppb	11:49:39
2	Ti 334.940†	183176.0	189655.0	518.74 µg/L	518.74 ppb	11:49:19
2	Tl 190.801†	952.2	1009.5	507.91 µg/L	507.91 ppb	11:49:39
2	U 367.007†	1965.8	1492.4	469.8 µg/L	469.8 ppb	11:49:19
2	V 292.402†	48413.1	49921.2	512.78 µg/L	512.78 ppb	11:49:19
2	Zn 213.857†	36595.2	37081.2	500.10 µg/L	500.10 ppb	11:49:19
3	Sc RADIAL	6038.7	6038.7	93.9 %		11:48:36
3	Al 396.153Radial†	4613.9	5091.4	5275.2 µg/L	5275.2 ppb	11:48:16
3	Ca 317.933Radial†	5067.8	5352.8	5151.0 µg/L	5151.0 ppb	11:48:36
3	Fe 238.204 Radial†	4632.8	4896.1	5267.6 µg/L	5267.6 ppb	11:48:36
3	K 766.490 Radial†	6357.9	6112.6	5302.6 µg/L	5302.6 ppb	11:48:16
3	Mg 279.077 IEC†	645.1	679.0	5331.1 µg/L	5331.1 ppb	11:48:36
3	Na 589.592 Radial†	1557.7	1842.8	10889 µg/L	10889 ppb	11:48:16
3	Sr 421.552†	32817.7	35853.2	526.73 µg/L	526.73 ppb	11:48:16
3	Sc 361.383	542798.4	542798.4	95.754 %		11:49:45
3	Y 371.029	485817.3	485817.3	93.286 %		11:49:45
3	Ag 328.068†	73111.7	76600.7	530.91 µg/L	530.91 ppb	11:49:50
3	As 188.979†	558.8	595.9	495.83 µg/L	495.83 ppb	11:50:10
3	B 249.677†	14646.4	15069.9	502.63 µg/L	502.63 ppb	11:49:50
3	Ba 233.527†	46397.1	48508.7	515.34 µg/L	515.34 ppb	11:49:50
3	Be 313.107†	903469.9	949042.5	508.11 µg/L	508.11 ppb	11:49:45
3	Cd 226.502†	29735.8	31212.9	504.49 µg/L	504.49 ppb	11:49:50
3	Co 228.616†	16294.3	17132.3	511.81 µg/L	511.81 ppb	11:49:50
3	Cr 267.716†	23030.7	23971.0	514.62 µg/L	514.62 ppb	11:49:50
3	Cu 324.752†	97917.9	99905.3	526.45 µg/L	526.45 ppb	11:49:50
3	Mn 257.610†	296750.5	309514.6	510.92 µg/L	510.92 ppb	11:49:50
3	Mo 202.031†	4182.0	4356.1	515.68 µg/L	515.68 ppb	11:50:10
3	Ni 231.604†	12519.9	13188.4	494.58 µg/L	494.58 ppb	11:50:10
3	P 214.914†	2589.3	2649.7	2490.4 µg/L	2490.4 ppb	11:50:10
3	Pb 220.353†	2646.3	2592.9	511.71 µg/L	511.71 ppb	11:50:10
3	S 181.975 Axial†	394.5	359.7	993.98 µg/L	993.98 ppb	11:50:10
3	Sb 206.836†	985.2	965.2	506.43 µg/L	506.43 ppb	11:50:10
3	Se 196.026†	185.4	243.9	474.77 µg/L	474.77 ppb	11:50:10
3	SiO2†	42333.5	43021.3	5436.7 µg/L	5436.7 ppb	11:49:50
3	Si 251.611†	43340.7	44965.8	2510.2 µg/L	2510.2 ppb	11:49:50
3	Sn 189.927†	1584.3	1631.4	502.62 µg/L	502.62 ppb	11:50:10
3	Ti 334.940†	184033.5	192680.4	527.01 µg/L	527.01 ppb	11:49:50
3	Tl 190.801†	951.2	1019.5	512.97 µg/L	512.97 ppb	11:50:10
3	U 367.007†	1979.7	1529.8	482.4 µg/L	482.4 ppb	11:49:50
3	V 292.402†	48635.7	50716.6	520.94 µg/L	520.94 ppb	11:49:50
3	Zn 213.857†	36750.3	37668.8	508.06 µg/L	508.06 ppb	11:49:50

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	546909.7	96.479	%	0.6282				0.65%
Sc RADIAL	6016.9	93.5	%	0.49				0.52%
Y 371.029	489029.1	93.902	%	0.5425				0.58%
Ag 328.068†	75996.2	526.73	µg/L	3.694	526.73	ppb	3.694	0.70%
QC value within limits for Ag 328.068 Recovery = 105.35%								
Al 396.153Radial†	5088.3	5272.3	µg/L	4.21	5272.3	ppb	4.21	0.08%
QC value within limits for Al 396.153Radial Recovery = 105.45%								
As 188.979†	592.0	492.52	µg/L	3.375	492.52	ppb	3.375	0.69%
QC value within limits for As 188.979 Recovery = 98.50%								
B 249.677†	14928.5	497.86	µg/L	4.382	497.86	ppb	4.382	0.88%
QC value within limits for B 249.677 Recovery = 99.57%								
Ba 233.527†	47991.2	509.85	µg/L	4.934	509.85	ppb	4.934	0.97%
QC value within limits for Ba 233.527 Recovery = 101.97%								
Be 313.107†	947722.7	507.40	µg/L	0.967	507.40	ppb	0.967	0.19%
QC value within limits for Be 313.107 Recovery = 101.48%								
Ca 317.933Radial†	5337.6	5136.4	µg/L	12.92	5136.4	ppb	12.92	0.25%
QC value within limits for Ca 317.933Radial Recovery = 102.73%								
Cd 226.502†	30935.1	500.00	µg/L	4.391	500.00	ppb	4.391	0.88%
QC value within limits for Cd 226.502 Recovery = 100.00%								
Co 228.616†	16975.4	507.12	µg/L	4.803	507.12	ppb	4.803	0.95%

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   QC value within limits for Co 228.616  Recovery = 101.42%
Cr 267.716†            23732.0      509.49 µg/L         4.647      509.49 ppb          4.647   0.91%
   QC value within limits for Cr 267.716  Recovery = 101.90%
Cu 324.752†            98921.7      521.27 µg/L         4.970      521.27 ppb          4.970   0.95%
   QC value within limits for Cu 324.752  Recovery = 104.25%
Fe 238.204 Radial†      4910.3      5282.8 µg/L         15.02      5282.8 ppb          15.02   0.28%
   QC value within limits for Fe 238.204 Radial  Recovery = 105.66%
K 766.490 Radial†       6155.2      5339.8 µg/L         32.49      5339.8 ppb          32.49   0.61%
   QC value within limits for K 766.490 Radial  Recovery = 106.80%
Mg 279.077 IEC†          676.1      5308.0 µg/L         55.43      5308.0 ppb          55.43   1.04%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.16%
Mn 257.610†           306890.1      506.59 µg/L         3.980      506.59 ppb          3.980   0.79%
   QC value within limits for Mn 257.610  Recovery = 101.32%
Mo 202.031†             4325.5      512.06 µg/L         3.331      512.06 ppb          3.331   0.65%
   QC value within limits for Mo 202.031  Recovery = 102.41%
Na 589.592 Radial†      1821.8       10765 µg/L         143.6       10765 ppb          143.6   1.33%
   QC value within limits for Na 589.592 Radial  Recovery = 107.65%
Ni 231.604†            13107.3      491.54 µg/L         2.721      491.54 ppb          2.721   0.55%
   QC value within limits for Ni 231.604  Recovery = 98.31%
P 214.914†              2631.9      2473.7 µg/L         17.36      2473.7 ppb          17.36   0.70%
   QC value within limits for P 214.914  Recovery = 98.95%
Pb 220.353†             2555.4      504.30 µg/L         6.744      504.30 ppb          6.744   1.34%
   QC value within limits for Pb 220.353  Recovery = 100.86%
S 181.975 Axial†         353.5      976.93 µg/L        14.776      976.93 ppb         14.776   1.51%
   QC value within limits for S 181.975 Axial  Recovery = 97.69%
Sb 206.836†              949.2      498.05 µg/L         7.581      498.05 ppb          7.581   1.52%
   QC value within limits for Sb 206.836  Recovery = 99.61%
Se 196.026†              251.1      488.28 µg/L        18.238      488.28 ppb         18.238   3.74%
   QC value within limits for Se 196.026  Recovery = 97.66%
SiO2†                  42602.9      5381.8 µg/L         50.05      5381.8 ppb          50.05   0.93%
   QC value within limits for SiO2  Recovery = 100.64%
Si 251.611†            44581.7      2487.9 µg/L         20.61      2487.9 ppb          20.61   0.83%
   QC value within limits for Si 251.611  Recovery = 99.52%
Sn 189.927†             1617.9      498.46 µg/L         4.215      498.46 ppb          4.215   0.85%
   QC value within limits for Sn 189.927  Recovery = 99.69%
Sr 421.552†            35904.7      527.49 µg/L         0.720      527.49 ppb          0.720   0.14%
   QC value within limits for Sr 421.552  Recovery = 105.50%
Ti 334.940†           191008.0      522.44 µg/L         4.205      522.44 ppb          4.205   0.80%
   QC value within limits for Ti 334.940  Recovery = 104.49%
Tl 190.801†             1007.4      506.86 µg/L         6.696      506.86 ppb          6.696   1.32%
   QC value within limits for Tl 190.801  Recovery = 101.37%
U 367.007†              1517.8       478.3 µg/L          7.40       478.3 ppb           7.40   1.55%
   QC value within limits for U 367.007  Recovery = 95.67%
V 292.402†             50299.4      516.66 µg/L         4.094      516.66 ppb          4.094   0.79%
   QC value within limits for V 292.402  Recovery = 103.33%
Zn 213.857†            37334.2      503.54 µg/L         4.092      503.54 ppb          4.092   0.81%
   QC value within limits for Zn 213.857  Recovery = 100.71%
All analyte(s) passed QC.
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Sequence No.: 11 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/5/2013 11:50:18**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5986.0	5986.0	93.0	%			11:50:48
1	Al 396.153Radial†	27.0	204.4	212.95	µg/L	212.95	ppb	11:50:48
1	Ca 317.933Radial†	246.3	217.8	209.57	µg/L	209.57	ppb	11:51:08
1	Fe 238.204 Radial†	135.1	105.2	113.09	µg/L	113.09	ppb	11:51:08
1	K 766.490 Radial†	805.9	204.6	177.64	µg/L	177.64	ppb	11:50:48
1	Mg 279.077 IEC†	48.2	43.5	341.46	µg/L	341.46	ppb	11:51:08
1	Na 589.592 Radial†	-131.2	42.0	248.28	µg/L	248.28	ppb	11:50:48
1	Sr 421.552†	-450.3	402.1	5.9064	µg/L	5.9064	ppb	11:50:48
1	Sc 361.383	537955.5	537955.5	94.899	%			11:52:05
1	Y 371.029	493685.6	493685.6	94.796	%			11:52:05
1	Ag 328.068†	475.6	748.0	5.2071	µg/L	5.2071	ppb	11:52:05
1	As 188.979†	19.4	32.8	27.220	µg/L	27.220	ppb	11:52:25
1	B 249.677†	1657.6	1520.8	50.995	µg/L	50.995	ppb	11:52:05
1	Ba 233.527†	388.3	463.3	4.9220	µg/L	4.9220	ppb	11:52:25
1	Be 313.107†	4064.4	9791.1	5.2515	µg/L	5.2515	ppb	11:52:05
1	Cd 226.502†	129.2	294.6	4.7556	µg/L	4.7556	ppb	11:52:25
1	Co 228.616†	63.8	182.7	5.4645	µg/L	5.4645	ppb	11:52:25
1	Cr 267.716†	330.9	267.6	5.7285	µg/L	5.7285	ppb	11:52:25
1	Cu 324.752†	4174.5	2044.1	10.790	µg/L	10.790	ppb	11:52:05
1	Mn 257.610†	6684.0	6648.0	10.965	µg/L	10.965	ppb	11:52:05
1	Mo 202.031†	95.0	88.8	10.509	µg/L	10.509	ppb	11:52:25
1	Ni 231.604†	63.5	180.2	6.7596	µg/L	6.7596	ppb	11:52:25
1	P 214.914†	209.3	166.2	156.87	µg/L	156.87	ppb	11:52:25
1	Pb 220.353†	211.8	52.4	10.283	µg/L	10.283	ppb	11:52:25
1	S 181.975 Axial†	82.9	35.1	96.165	µg/L	96.165	ppb	11:52:25
1	Sb 206.836†	85.2	26.0	13.762	µg/L	13.762	ppb	11:52:25
1	Se 196.026†	-15.1	34.4	65.933	µg/L	65.933	ppb	11:52:25
1	SiO2†	2751.4	1709.8	216.17	µg/L	216.17	ppb	11:52:05
1	Si 251.611†	1882.1	1686.4	94.455	µg/L	94.455	ppb	11:52:25
1	Sn 189.927†	52.9	32.7	10.073	µg/L	10.073	ppb	11:52:25
1	Ti 334.940†	1295.9	1851.5	5.0501	µg/L	5.0501	ppb	11:52:05
1	Tl 190.801†	6.3	32.8	16.500	µg/L	16.500	ppb	11:52:25
1	U 367.007†	631.8	128.1	42.01	µg/L	42.01	ppb	11:52:05
1	V 292.402†	604.5	561.1	5.8488	µg/L	5.8488	ppb	11:52:05
1	Zn 213.857†	1403.9	768.2	10.374	µg/L	10.374	ppb	11:52:25
2	Sc RADIAL	6010.7	6010.7	93.4	%			11:51:13
2	Al 396.153Radial†	15.8	192.3	200.31	µg/L	200.31	ppb	11:51:13
2	Ca 317.933Radial†	237.6	207.5	199.61	µg/L	199.61	ppb	11:51:33
2	Fe 238.204 Radial†	135.1	104.6	112.54	µg/L	112.54	ppb	11:51:33
2	K 766.490 Radial†	845.1	243.0	210.96	µg/L	210.96	ppb	11:51:13
2	Mg 279.077 IEC†	47.7	42.8	335.95	µg/L	335.95	ppb	11:51:33
2	Na 589.592 Radial†	-122.4	52.1	307.71	µg/L	307.71	ppb	11:51:13
2	Sr 421.552†	-508.6	341.7	5.0193	µg/L	5.0193	ppb	11:51:13
2	Sc 361.383	537991.7	537991.7	94.906	%			11:52:31
2	Y 371.029	493896.2	493896.2	94.837	%			11:52:31
2	Ag 328.068†	427.1	696.9	4.8535	µg/L	4.8535	ppb	11:52:31
2	As 188.979†	16.5	29.7	24.684	µg/L	24.684	ppb	11:52:51
2	B 249.677†	1652.1	1514.8	50.780	µg/L	50.780	ppb	11:52:31
2	Ba 233.527†	390.4	465.5	4.9443	µg/L	4.9443	ppb	11:52:51
2	Be 313.107†	4098.6	9826.9	5.2700	µg/L	5.2700	ppb	11:52:31
2	Cd 226.502†	178.9	347.0	5.6029	µg/L	5.6029	ppb	11:52:51
2	Co 228.616†	69.4	188.5	5.6408	µg/L	5.6408	ppb	11:52:51
2	Cr 267.716†	358.3	296.6	6.3514	µg/L	6.3514	ppb	11:52:51
2	Cu 324.752†	4030.0	1891.5	9.9843	µg/L	9.9843	ppb	11:52:31
2	Mn 257.610†	6726.1	6691.8	11.038	µg/L	11.038	ppb	11:52:31
2	Mo 202.031†	99.4	93.4	11.060	µg/L	11.060	ppb	11:52:51
2	Ni 231.604†	58.4	174.8	6.5580	µg/L	6.5580	ppb	11:52:51
2	P 214.914†	194.1	150.2	141.70	µg/L	141.70	ppb	11:52:51
2	Pb 220.353†	216.5	57.3	11.253	µg/L	11.253	ppb	11:52:51

2	S 181.975 Axial†	77.0	28.8	79.137 µg/L	79.137 ppb	11:52:51
2	Sb 206.836†	75.8	16.1	8.5075 µg/L	8.5075 ppb	11:52:51
2	Se 196.026†	-33.4	15.2	29.201 µg/L	29.201 ppb	11:52:51
2	SiO2†	2815.5	1777.2	224.06 µg/L	224.06 ppb	11:52:31
2	Si 251.611†	1874.3	1678.0	93.615 µg/L	93.615 ppb	11:52:51
2	Sn 189.927†	50.7	30.3	9.3407 µg/L	9.3407 ppb	11:52:51
2	Ti 334.940†	1345.7	1903.9	5.1944 µg/L	5.1944 ppb	11:52:31
2	Tl 190.801†	8.8	35.4	17.799 µg/L	17.799 ppb	11:52:51
2	U 367.007†	622.4	118.2	38.71 µg/L	38.71 ppb	11:52:31
2	V 292.402†	572.8	527.7	5.5156 µg/L	5.5156 ppb	11:52:31
2	Zn 213.857†	1384.4	747.5	10.096 µg/L	10.096 ppb	11:52:51
3	Sc RADIAL	5992.5	5992.5	93.1 %		11:51:39
3	Al 396.153Radial†	42.3	220.7	230.05 µg/L	230.05 ppb	11:51:39
3	Ca 317.933Radial†	250.7	222.2	213.82 µg/L	213.82 ppb	11:51:59
3	Fe 238.204 Radial†	132.1	101.9	109.54 µg/L	109.54 ppb	11:51:59
3	K 766.490 Radial†	855.8	257.2	223.33 µg/L	223.33 ppb	11:51:39
3	Mg 279.077 IEC†	49.2	44.5	349.41 µg/L	349.41 ppb	11:51:59
3	Na 589.592 Radial†	-117.2	57.2	338.14 µg/L	338.14 ppb	11:51:39
3	Sr 421.552†	-491.8	358.1	5.2604 µg/L	5.2604 ppb	11:51:39
3	Sc 361.383	531208.7	531208.7	93.709 %		11:52:56
3	Y 371.029	487565.1	487565.1	93.621 %		11:52:56
3	Ag 328.068†	513.0	794.3	5.5217 µg/L	5.5217 ppb	11:52:56
3	As 188.979†	20.3	34.0	28.238 µg/L	28.238 ppb	11:53:16
3	B 249.677†	1579.7	1459.8	48.925 µg/L	48.925 ppb	11:52:56
3	Ba 233.527†	392.8	473.3	5.0276 µg/L	5.0276 ppb	11:53:16
3	Be 313.107†	4283.0	10078.8	5.4070 µg/L	5.4070 ppb	11:52:56
3	Cd 226.502†	152.0	320.6	5.1771 µg/L	5.1771 ppb	11:53:16
3	Co 228.616†	68.4	188.4	5.6322 µg/L	5.6322 ppb	11:53:16
3	Cr 267.716†	366.5	310.1	6.6355 µg/L	6.6355 ppb	11:53:16
3	Cu 324.752†	4130.0	2052.4	10.839 µg/L	10.839 ppb	11:52:56
3	Mn 257.610†	6797.9	6859.0	11.313 µg/L	11.313 ppb	11:52:56
3	Mo 202.031†	89.0	83.7	9.9030 µg/L	9.9030 ppb	11:53:16
3	Ni 231.604†	46.7	163.1	6.1165 µg/L	6.1165 ppb	11:53:16
3	P 214.914†	193.4	152.1	143.51 µg/L	143.51 ppb	11:53:16
3	Pb 220.353†	217.5	61.3	12.023 µg/L	12.023 ppb	11:53:16
3	S 181.975 Axial†	80.1	33.2	91.109 µg/L	91.109 ppb	11:53:16
3	Sb 206.836†	75.8	17.2	9.0755 µg/L	9.0755 ppb	11:53:16
3	Se 196.026†	-35.2	12.7	24.674 µg/L	24.674 ppb	11:53:16
3	SiO2†	2812.4	1811.8	228.30 µg/L	228.30 ppb	11:52:56
3	Si 251.611†	1837.9	1664.4	92.720 µg/L	92.720 ppb	11:53:16
3	Sn 189.927†	54.6	35.2	10.839 µg/L	10.839 ppb	11:53:16
3	Ti 334.940†	1525.0	2113.3	5.7631 µg/L	5.7631 ppb	11:52:56
3	Tl 190.801†	13.9	41.0	20.613 µg/L	20.613 ppb	11:53:16
3	U 367.007†	642.8	148.2	48.73 µg/L	48.73 ppb	11:52:56
3	V 292.402†	562.6	524.5	5.4787 µg/L	5.4787 ppb	11:52:56
3	Zn 213.857†	1378.4	759.7	10.264 µg/L	10.264 ppb	11:53:16

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	535718.6	94.505	%	0.6890				0.73%
Sc RADIAL	5996.4	93.2	%	0.20				0.21%
Y 371.029	491715.6	94.418	%	0.6905				0.73%
Ag 328.068†	746.4	5.1941	µg/L	0.33428	5.1941	ppb	0.33428	6.44%
QC value within limits for Ag 328.068 Recovery = 103.88%								
Al 396.153Radial†	205.8	214.44	µg/L	14.927	214.44	ppb	14.927	6.96%
QC value within limits for Al 396.153Radial Recovery = 107.22%								
As 188.979†	32.2	26.714	µg/L	1.8298	26.714	ppb	1.8298	6.85%
QC value within limits for As 188.979 Recovery = 89.05%								
B 249.677†	1498.4	50.233	µg/L	1.1382	50.233	ppb	1.1382	2.27%
QC value within limits for B 249.677 Recovery = 100.47%								
Ba 233.527†	467.4	4.9646	µg/L	0.05570	4.9646	ppb	0.05570	1.12%
QC value within limits for Ba 233.527 Recovery = 99.29%								
Be 313.107†	9898.9	5.3095	µg/L	0.08498	5.3095	ppb	0.08498	1.60%
QC value within limits for Be 313.107 Recovery = 106.19%								
Ca 317.933Radial†	215.8	207.67	µg/L	7.294	207.67	ppb	7.294	3.51%
QC value within limits for Ca 317.933Radial Recovery = 103.83%								
Cd 226.502†	320.7	5.1785	µg/L	0.42365	5.1785	ppb	0.42365	8.18%
QC value within limits for Cd 226.502 Recovery = 103.57%								
Co 228.616†	186.5	5.5792	µg/L	0.09939	5.5792	ppb	0.09939	1.78%

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   QC value within limits for Co 228.616  Recovery = 111.58%
Cr 267.716†              291.4      6.2385 µg/L       0.46392      6.2385 ppb        0.46392   7.44%
   QC value within limits for Cr 267.716  Recovery = 124.77%
Cu 324.752†             1996.0      10.538 µg/L        0.4799      10.538 ppb         0.4799   4.55%
   QC value within limits for Cu 324.752  Recovery = 105.38%
Fe 238.204 Radial†       103.9      111.72 µg/L         1.907      111.72 ppb          1.907   1.71%
   QC value within limits for Fe 238.204 Radial  Recovery = 111.72%
K 766.490 Radial†        234.9      203.98 µg/L        23.632      203.98 ppb         23.632  11.59%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 135.98%
Mg 279.077 IEC†           43.6      342.27 µg/L         6.765      342.27 ppb          6.765   1.98%
   QC value within limits for Mg 279.077 IEC  Recovery = 114.09%
Mn 257.610†             6732.9      11.105 µg/L        0.1834      11.105 ppb         0.1834   1.65%
   QC value within limits for Mn 257.610  Recovery = 111.05%
Mo 202.031†               88.6      10.491 µg/L        0.5786      10.491 ppb         0.5786   5.52%
   QC value within limits for Mo 202.031  Recovery = 104.91%
Na 589.592 Radial†        50.4      298.04 µg/L        45.704      298.04 ppb         45.704  15.33%
   QC value within limits for Na 589.592 Radial  Recovery = 99.35%
Ni 231.604†              172.7      6.4780 µg/L       0.32889      6.4780 ppb        0.32889   5.08%
   QC value within limits for Ni 231.604  Recovery = 129.56%
P 214.914†               156.1      147.36 µg/L         8.283      147.36 ppb          8.283   5.62%
   QC value within limits for P 214.914  Recovery = 98.24%
Pb 220.353†               57.0      11.186 µg/L        0.8721      11.186 ppb         0.8721   7.80%
   QC value within limits for Pb 220.353  Recovery = 111.86%
S 181.975 Axial†          32.4      88.804 µg/L        8.7446      88.804 ppb         8.7446   9.85%
   QC value within limits for S 181.975 Axial  Recovery = 88.80%
Sb 206.836†               19.8      10.448 µg/L        2.8839      10.448 ppb         2.8839  27.60%
   QC value within limits for Sb 206.836  Recovery = 104.48%
Se 196.026†               20.8      39.936 µg/L       22.6275      39.936 ppb        22.6275  56.66%
   QC value greater than the upper limit for Se 196.026  Recovery = 133.12%
SiO2†                   1766.3      222.84 µg/L         6.158      222.84 ppb          6.158   2.76%
   QC value within limits for SiO2  Recovery = 104.62%
Si 251.611†             1676.2      93.597 µg/L        0.8675      93.597 ppb         0.8675   0.93%
   QC value within limits for Si 251.611  Recovery = 93.60%
Sn 189.927†               32.7      10.084 µg/L        0.7491      10.084 ppb         0.7491   7.43%
   QC value within limits for Sn 189.927  Recovery = 100.84%
Sr 421.552†              367.3      5.3954 µg/L       0.45870      5.3954 ppb        0.45870   8.50%
   QC value within limits for Sr 421.552  Recovery = 107.91%
Ti 334.940†             1956.3      5.3359 µg/L       0.37697      5.3359 ppb        0.37697   7.06%
   QC value within limits for Ti 334.940  Recovery = 106.72%
Tl 190.801†               36.4      18.304 µg/L        2.1027      18.304 ppb         2.1027  11.49%
   QC value within limits for Tl 190.801  Recovery = 91.52%
U 367.007†               131.5       43.15 µg/L         5.106       43.15 ppb          5.106  11.83%
   QC value within limits for U 367.007  Recovery = 86.30%
V 292.402†               537.7      5.6144 µg/L       0.20388      5.6144 ppb        0.20388   3.63%
   QC value within limits for V 292.402  Recovery = 112.29%
Zn 213.857†              758.4      10.245 µg/L        0.1400      10.245 ppb         0.1400   1.37%
   QC value within limits for Zn 213.857  Recovery = 102.45%
QC Failed.  Continue with analysis.
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Sequence No.: 12 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 11:53:24**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5947.6	5947.6	92.4	%			11:53:54
1	Al 396.153Radial†	-146.7	16.6	17.280	µg/L	17.280	ppb	11:53:54
1	Ca 317.933Radial†	44.2	0.9	0.8454	µg/L	0.8454	ppb	11:54:14
1	Fe 238.204 Radial†	39.7	2.9	3.1735	µg/L	3.1735	ppb	11:54:14
1	K 766.490 Radial†	562.9	-52.7	-45.816	µg/L	-45.816	ppb	11:53:54
1	Mg 279.077 IEC†	8.4	0.8	6.1173	µg/L	6.1173	ppb	11:54:14
1	Na 589.592 Radial†	-164.7	4.8	28.649	µg/L	28.649	ppb	11:53:54
1	Sr 421.552†	-795.0	26.1	0.3838	µg/L	0.3838	ppb	11:53:54
1	Sc 361.383	529093.4	529093.4	93.336	%			11:55:10
1	Y 371.029	488229.7	488229.7	93.749	%			11:55:10
1	Ag 328.068†	-289.9	-63.8	-0.4402	µg/L	-0.4402	ppb	11:55:10
1	As 188.979†	-18.3	-7.2	-5.9649	µg/L	-5.9649	ppb	11:55:30
1	B 249.677†	282.2	76.4	2.5880	µg/L	2.5880	ppb	11:55:10
1	Ba 233.527†	-70.7	-21.6	-0.2296	µg/L	-0.2296	ppb	11:55:30
1	Be 313.107†	-5007.8	142.9	0.0775	µg/L	0.0775	ppb	11:55:10
1	Cd 226.502†	-141.9	6.4	0.1024	µg/L	0.1024	ppb	11:55:30
1	Co 228.616†	-94.7	13.9	0.4160	µg/L	0.4160	ppb	11:55:30
1	Cr 267.716†	71.8	-4.1	-0.0906	µg/L	-0.0906	ppb	11:55:30
1	Cu 324.752†	2313.0	123.3	0.6521	µg/L	0.6521	ppb	11:55:10
1	Mn 257.610†	355.8	-14.1	-0.0232	µg/L	-0.0232	ppb	11:55:10
1	Mo 202.031†	15.3	5.1	0.6016	µg/L	0.6016	ppb	11:55:30
1	Ni 231.604†	-117.4	-12.5	-0.4675	µg/L	-0.4675	ppb	11:55:30
1	P 214.914†	60.6	10.6	10.026	µg/L	10.026	ppb	11:55:30
1	Pb 220.353†	151.5	-8.5	-1.6867	µg/L	-1.6867	ppb	11:55:30
1	S 181.975 Axial†	32.1	-17.9	-48.965	µg/L	-48.965	ppb	11:55:30
1	Sb 206.836†	52.2	-7.8	-4.0876	µg/L	-4.0876	ppb	11:55:30
1	Se 196.026†	-42.6	4.7	8.9226	µg/L	8.9226	ppb	11:55:30
1	SiO2†	1131.7	23.1	4.0649	µg/L	4.0649	ppb	11:55:10
1	Si 251.611†	284.4	7.8	0.9233	µg/L	0.9233	ppb	11:55:30
1	Sn 189.927†	26.1	4.9	1.5082	µg/L	1.5082	ppb	11:55:30
1	Ti 334.940†	-416.1	40.2	0.1077	µg/L	0.1077	ppb	11:55:10
1	Tl 190.801†	-29.5	-5.5	-2.7350	µg/L	-2.7350	ppb	11:55:30
1	U 367.007†	515.4	14.5	4.794	µg/L	4.794	ppb	11:55:10
1	V 292.402†	27.6	-46.3	-0.4589	µg/L	-0.4589	ppb	11:55:10
1	Zn 213.857†	671.9	8.6	0.1190	µg/L	0.1190	ppb	11:55:30
2	Sc RADIAL	5844.8	5844.8	90.8	%			11:54:19
2	Al 396.153Radial†	-141.0	20.1	21.073	µg/L	21.073	ppb	11:54:19
2	Ca 317.933Radial†	52.4	10.8	10.381	µg/L	10.381	ppb	11:54:39
2	Fe 238.204 Radial†	38.6	2.5	2.6707	µg/L	2.6707	ppb	11:54:39
2	K 766.490 Radial†	585.8	-16.8	-14.674	µg/L	-14.674	ppb	11:54:19
2	Mg 279.077 IEC†	6.0	-1.8	-13.817	µg/L	-13.817	ppb	11:54:39
2	Na 589.592 Radial†	-151.7	16.1	95.066	µg/L	95.066	ppb	11:54:19
2	Sr 421.552†	-797.3	8.4	0.1240	µg/L	0.1240	ppb	11:54:19
2	Sc 361.383	526778.0	526778.0	92.928	%			11:55:36
2	Y 371.029	486535.6	486535.6	93.424	%			11:55:36
2	Ag 328.068†	-266.8	-40.3	-0.2712	µg/L	-0.2712	ppb	11:55:36
2	As 188.979†	-17.6	-6.6	-5.4784	µg/L	-5.4784	ppb	11:55:56
2	B 249.677†	199.5	-11.3	-0.3729	µg/L	-0.3729	ppb	11:55:36
2	Ba 233.527†	-73.4	-24.8	-0.2624	µg/L	-0.2624	ppb	11:55:56
2	Be 313.107†	-4971.5	158.4	0.0894	µg/L	0.0894	ppb	11:55:36
2	Cd 226.502†	-147.9	-0.8	-0.0126	µg/L	-0.0126	ppb	11:55:56
2	Co 228.616†	-107.5	-0.3	-0.0108	µg/L	-0.0108	ppb	11:55:56
2	Cr 267.716†	49.7	-27.5	-0.6035	µg/L	-0.6035	ppb	11:55:56
2	Cu 324.752†	2141.6	-50.3	-0.2501	µg/L	-0.2501	ppb	11:55:36
2	Mn 257.610†	361.2	-6.5	-0.0102	µg/L	-0.0102	ppb	11:55:36
2	Mo 202.031†	-1.4	-12.8	-1.5169	µg/L	-1.5169	ppb	11:55:56
2	Ni 231.604†	-90.1	16.3	0.6119	µg/L	0.6119	ppb	11:55:56
2	P 214.914†	52.6	2.2	2.1239	µg/L	2.1239	ppb	11:55:56
2	Pb 220.353†	157.9	-0.8	-0.1892	µg/L	-0.1892	ppb	11:55:56

2	S 181.975 Axial†	49.0	0.5	1.4129	µg/L	1.4129	ppb	11:55:56
2	Sb 206.836†	59.3	0.1	0.0613	µg/L	0.0613	ppb	11:55:56
2	Se 196.026†	-60.7	-15.0	-28.493	µg/L	-28.493	ppb	11:55:56
2	SiO2†	1150.7	48.9	6.7644	µg/L	6.7644	ppb	11:55:36
2	Si 251.611†	284.6	9.4	0.7129	µg/L	0.7129	ppb	11:55:56
2	Sn 189.927†	22.7	1.3	0.4079	µg/L	0.4079	ppb	11:55:56
2	Ti 334.940†	-497.0	-48.9	-0.1435	µg/L	-0.1435	ppb	11:55:36
2	Tl 190.801†	-24.6	-0.3	-0.1313	µg/L	-0.1313	ppb	11:55:56
2	U 367.007†	562.3	67.4	22.42	µg/L	22.42	ppb	11:55:36
2	V 292.402†	135.4	69.9	0.7069	µg/L	0.7069	ppb	11:55:36
2	Zn 213.857†	683.5	24.3	0.3263	µg/L	0.3263	ppb	11:55:56
3	Sc RADIAL	5865.2	5865.2	91.2	%			11:54:44
3	Al 396.153Radial†	-131.8	30.7	32.089	µg/L	32.089	ppb	11:54:44
3	Ca 317.933Radial†	47.5	5.2	5.0369	µg/L	5.0369	ppb	11:55:04
3	Fe 238.204 Radial†	37.8	1.4	1.5343	µg/L	1.5343	ppb	11:55:04
3	K 766.490 Radial†	627.7	27.0	23.408	µg/L	23.408	ppb	11:54:44
3	Mg 279.077 IEC†	9.7	2.3	18.434	µg/L	18.434	ppb	11:55:04
3	Na 589.592 Radial†	-162.9	4.4	25.903	µg/L	25.903	ppb	11:54:44
3	Sr 421.552†	-819.2	-12.6	-0.1845	µg/L	-0.1845	ppb	11:54:44
3	Sc 361.383	527266.1	527266.1	93.014	%			11:56:01
3	Y 371.029	486379.6	486379.6	93.394	%			11:56:01
3	Ag 328.068†	-339.3	-117.9	-0.8007	µg/L	-0.8007	ppb	11:56:01
3	As 188.979†	-12.1	-0.6	-0.5363	µg/L	-0.5363	ppb	11:56:21
3	B 249.677†	220.0	10.6	0.3414	µg/L	0.3414	ppb	11:56:01
3	Ba 233.527†	-61.7	-12.2	-0.1280	µg/L	-0.1280	ppb	11:56:21
3	Be 313.107†	-4992.0	141.4	0.0719	µg/L	0.0719	ppb	11:56:01
3	Cd 226.502†	-144.3	3.3	0.0535	µg/L	0.0535	ppb	11:56:21
3	Co 228.616†	-84.2	24.9	0.7427	µg/L	0.7427	ppb	11:56:21
3	Cr 267.716†	80.4	5.4	0.1288	µg/L	0.1288	ppb	11:56:21
3	Cu 324.752†	2220.7	32.6	0.1610	µg/L	0.1610	ppb	11:56:01
3	Mn 257.610†	333.0	-37.2	-0.0619	µg/L	-0.0619	ppb	11:56:01
3	Mo 202.031†	7.2	-3.5	-0.4150	µg/L	-0.4150	ppb	11:56:21
3	Ni 231.604†	-84.6	22.3	0.8371	µg/L	0.8371	ppb	11:56:21
3	P 214.914†	61.8	12.1	11.462	µg/L	11.462	ppb	11:56:21
3	Pb 220.353†	135.2	-25.5	-5.0375	µg/L	-5.0375	ppb	11:56:21
3	S 181.975 Axial†	44.8	-4.1	-11.150	µg/L	-11.150	ppb	11:56:21
3	Sb 206.836†	61.2	2.1	1.0880	µg/L	1.0880	ppb	11:56:21
3	Se 196.026†	-53.7	-7.4	-14.193	µg/L	-14.193	ppb	11:56:21
3	SiO2†	1171.9	70.5	8.3384	µg/L	8.3384	ppb	11:56:01
3	Si 251.611†	299.7	25.4	1.2066	µg/L	1.2066	ppb	11:56:21
3	Sn 189.927†	21.5	0.0	0.0073	µg/L	0.0073	ppb	11:56:21
3	Ti 334.940†	-455.3	-3.5	-0.0009	µg/L	-0.0009	ppb	11:56:01
3	Tl 190.801†	-24.8	-0.5	-0.2510	µg/L	-0.2510	ppb	11:56:21
3	U 367.007†	447.5	-56.5	-18.81	µg/L	-18.81	ppb	11:56:01
3	V 292.402†	194.8	133.5	1.3325	µg/L	1.3325	ppb	11:56:01
3	Zn 213.857†	694.2	35.1	0.4714	µg/L	0.4714	ppb	11:56:21

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	527712.5	93.093	%	0.2153				0.23%
Sc RADIAL	5885.9	91.5	%	0.85				0.92%
Y 371.029	487048.3	93.522	%	0.1970				0.21%
Ag 328.068†	-74.0	-0.5040	µg/L	0.27045	-0.5040	ppb	0.27045	53.66%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	22.5	23.481	µg/L	7.6924	23.481	ppb	7.6924	32.76%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-4.8	-3.9932	µg/L	3.00361	-3.9932	ppb	3.00361	75.22%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	25.2	0.8522	µg/L	1.54509	0.8522	ppb	1.54509	181.31%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-19.5	-0.2066	µg/L	0.07009	-0.2066	ppb	0.07009	33.92%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	147.6	0.0796	µg/L	0.00895	0.0796	ppb	0.00895	11.24%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.6	5.4213	µg/L	4.77960	5.4213	ppb	4.77960	88.16%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	3.0	0.0478	µg/L	0.05769	0.0478	ppb	0.05769	120.71%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	12.8	0.3827	µg/L	0.37785	0.3827	ppb	0.37785	98.74%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -8.7     -0.1884 µg/L       0.37585     -0.1884 ppb        0.37585 199.48%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                35.2      0.1877 µg/L       0.45170      0.1877 ppb        0.45170 240.68%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          2.3      2.4595 µg/L       0.83974      2.4595 ppb        0.83974  34.14%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -14.2     -12.361 µg/L       34.6701     -12.361 ppb        34.6701 280.48%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.5      3.5781 µg/L      16.27464      3.5781 ppb       16.27464 454.84%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               -19.3     -0.0318 µg/L       0.02693     -0.0318 ppb        0.02693  84.81%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -3.7     -0.4434 µg/L       1.05952     -0.4434 ppb        1.05952 238.94%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          8.4      49.873 µg/L       39.1627      49.873 ppb        39.1627  78.53%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 8.7      0.3272 µg/L       0.69737      0.3272 ppb        0.69737 213.15%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  8.3      7.8708 µg/L       5.02848      7.8708 ppb        5.02848  63.89%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -11.6     -2.3044 µg/L       2.48250     -2.3044 ppb        2.48250 107.73%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -7.1     -19.567 µg/L       26.2227     -19.567 ppb        26.2227 134.01%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -1.9     -0.9794 µg/L       2.74030     -0.9794 ppb        2.74030 279.79%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -5.9     -11.255 µg/L       18.8802     -11.255 ppb        18.8802 167.76%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      47.5      6.3892 µg/L       2.16127      6.3892 ppb        2.16127  33.83%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                14.2      0.9476 µg/L       0.24774      0.9476 ppb        0.24774  26.14%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 2.1      0.6411 µg/L       0.77713      0.6411 ppb        0.77713 121.21%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 7.3      0.1078 µg/L       0.28450      0.1078 ppb        0.28450 263.98%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                -4.1     -0.0123 µg/L       0.12599     -0.0123 ppb        0.12599 >999.9%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -2.1     -1.0391 µg/L       1.46988     -1.0391 ppb        1.46988 141.45%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                  8.5       2.800 µg/L       20.6896       2.800 ppb        20.6896 738.92%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 52.3      0.5268 µg/L       0.90918      0.5268 ppb        0.90918 172.58%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                22.7      0.3056 µg/L       0.17714      0.3056 ppb        0.17714  57.97%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 14 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 11:59:34**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5960.8	5960.8	92.6	%			12:00:24
1	Al 396.153Radial†	4458.7	4988.1	5168.2	µg/L	5168.2	ppb	12:00:04
1	Ca 317.933Radial†	4916.1	5259.7	5061.4	µg/L	5061.4	ppb	12:00:24
1	Fe 238.204 Radial†	4561.3	4883.5	5253.9	µg/L	5253.9	ppb	12:00:24
1	K 766.490 Radial†	6234.3	6067.8	5263.9	µg/L	5263.9	ppb	12:00:04
1	Mg 279.077 IEC†	625.6	667.0	5236.5	µg/L	5236.5	ppb	12:00:24
1	Na 589.592 Radial†	1524.5	1828.6	10805	µg/L	10805	ppb	12:00:04
1	Sr 421.552†	32428.9	35890.6	527.28	µg/L	527.28	ppb	12:00:04
1	Sc 361.383	544453.8	544453.8	96.046	%			12:01:21
1	Y 371.029	487029.8	487029.8	93.518	%			12:01:21
1	Ag 328.068†	72246.2	75467.4	523.07	µg/L	523.07	ppb	12:01:27
1	As 188.979†	551.8	586.9	488.31	µg/L	488.31	ppb	12:01:47
1	B 249.677†	14345.9	14710.5	490.59	µg/L	490.59	ppb	12:01:27
1	Ba 233.527†	45631.5	47564.3	505.31	µg/L	505.31	ppb	12:01:27
1	Be 313.107†	895427.8	937800.6	502.09	µg/L	502.09	ppb	12:01:21
1	Cd 226.502†	29196.9	30557.3	493.89	µg/L	493.89	ppb	12:01:27
1	Co 228.616†	15971.9	16744.8	500.23	µg/L	500.23	ppb	12:01:27
1	Cr 267.716†	22737.7	23592.8	506.50	µg/L	506.50	ppb	12:01:27
1	Cu 324.752†	96536.2	98155.7	517.24	µg/L	517.24	ppb	12:01:27
1	Mn 257.610†	292644.7	304297.5	502.32	µg/L	502.32	ppb	12:01:27
1	Mo 202.031†	4119.6	4277.9	506.42	µg/L	506.42	ppb	12:01:47
1	Ni 231.604†	12352.8	12974.6	486.56	µg/L	486.56	ppb	12:01:47
1	P 214.914†	2518.9	2568.2	2413.6	µg/L	2413.6	ppb	12:01:47
1	Pb 220.353†	2571.4	2506.5	494.67	µg/L	494.67	ppb	12:01:47
1	S 181.975 Axial†	376.9	340.1	940.24	µg/L	940.24	ppb	12:01:47
1	Sb 206.836†	968.7	944.9	495.75	µg/L	495.75	ppb	12:01:47
1	Se 196.026†	193.4	251.7	489.44	µg/L	489.44	ppb	12:01:47
1	SiO2†	41583.7	42106.3	5319.6	µg/L	5319.6	ppb	12:01:27
1	Si 251.611†	42531.0	43985.0	2454.6	µg/L	2454.6	ppb	12:01:27
1	Sn 189.927†	1553.2	1594.0	491.10	µg/L	491.10	ppb	12:01:47
1	Ti 334.940†	181668.7	189633.9	518.68	µg/L	518.68	ppb	12:01:27
1	Tl 190.801†	930.6	995.1	500.69	µg/L	500.69	ppb	12:01:47
1	U 367.007†	1967.8	1511.2	476.3	µg/L	476.3	ppb	12:01:27
1	V 292.402†	48128.7	50034.3	513.91	µg/L	513.91	ppb	12:01:27
1	Zn 213.857†	36173.1	36951.1	498.37	µg/L	498.37	ppb	12:01:27
2	Sc RADIAL	5930.4	5930.4	92.2	%			12:00:49
2	Al 396.153Radial†	4502.8	5060.7	5244.0	µg/L	5244.0	ppb	12:00:29
2	Ca 317.933Radial†	4865.7	5232.1	5034.8	µg/L	5034.8	ppb	12:00:49
2	Fe 238.204 Radial†	4537.0	4882.4	5252.7	µg/L	5252.7	ppb	12:00:49
2	K 766.490 Radial†	6150.5	6011.4	5214.8	µg/L	5214.8	ppb	12:00:29
2	Mg 279.077 IEC†	623.7	668.3	5247.1	µg/L	5247.1	ppb	12:00:49
2	Na 589.592 Radial†	1515.1	1826.8	10795	µg/L	10795	ppb	12:00:29
2	Sr 421.552†	32268.8	35896.2	527.37	µg/L	527.37	ppb	12:00:29
2	Sc 361.383	546770.4	546770.4	96.454	%			12:01:52
2	Y 371.029	490216.9	490216.9	94.130	%			12:01:52
2	Ag 328.068†	72258.8	75161.8	520.95	µg/L	520.95	ppb	12:01:57
2	As 188.979†	545.4	577.9	480.82	µg/L	480.82	ppb	12:02:17
2	B 249.677†	14417.8	14721.8	490.98	µg/L	490.98	ppb	12:01:57
2	Ba 233.527†	45665.4	47398.1	503.55	µg/L	503.55	ppb	12:01:57
2	Be 313.107†	898896.7	937446.9	501.90	µg/L	501.90	ppb	12:01:52
2	Cd 226.502†	29152.0	30382.0	491.05	µg/L	491.05	ppb	12:01:57
2	Co 228.616†	16074.1	16780.3	501.29	µg/L	501.29	ppb	12:01:57
2	Cr 267.716†	22660.7	23412.6	502.63	µg/L	502.63	ppb	12:01:57
2	Cu 324.752†	96693.1	97892.6	515.85	µg/L	515.85	ppb	12:01:57
2	Mn 257.610†	292744.2	303109.7	500.36	µg/L	500.36	ppb	12:01:57
2	Mo 202.031†	4125.0	4265.4	504.94	µg/L	504.94	ppb	12:02:17
2	Ni 231.604†	12304.2	12869.8	482.63	µg/L	482.63	ppb	12:02:17
2	P 214.914†	2517.8	2555.9	2402.0	µg/L	2402.0	ppb	12:02:17
2	Pb 220.353†	2562.4	2485.8	490.55	µg/L	490.55	ppb	12:02:17

2	S 181.975 Axial†	378.9	340.6	941.36 µg/L	941.36 ppb	12:02:17
2	Sb 206.836†	952.0	923.3	484.40 µg/L	484.40 ppb	12:02:17
2	Se 196.026†	193.3	250.8	487.62 µg/L	487.62 ppb	12:02:17
2	SiO2†	41649.8	41991.4	5305.8 µg/L	5305.8 ppb	12:01:57
2	Si 251.611†	42622.6	43892.5	2449.9 µg/L	2449.9 ppb	12:01:57
2	Sn 189.927†	1552.0	1585.9	488.61 µg/L	488.61 ppb	12:02:17
2	Ti 334.940†	181648.2	188811.3	516.43 µg/L	516.43 ppb	12:01:57
2	Tl 190.801†	933.2	993.7	499.98 µg/L	499.98 ppb	12:02:17
2	U 367.007†	1988.3	1523.7	480.5 µg/L	480.5 ppb	12:01:57
2	V 292.402†	48016.2	49705.3	510.55 µg/L	510.55 ppb	12:01:57
2	Zn 213.857†	36171.6	36789.9	496.20 µg/L	496.20 ppb	12:01:57
3	Sc RADIAL	5955.5	5955.5	92.6 %		12:01:15
3	Al 396.153Radial†	4506.1	5043.6	5225.8 µg/L	5225.8 ppb	12:00:54
3	Ca 317.933Radial†	4895.6	5242.1	5044.5 µg/L	5044.5 ppb	12:01:15
3	Fe 238.204 Radial†	4553.1	4879.0	5249.1 µg/L	5249.1 ppb	12:01:15
3	K 766.490 Radial†	6149.9	5982.5	5189.6 µg/L	5189.6 ppb	12:00:54
3	Mg 279.077 IEC†	626.0	668.0	5244.7 µg/L	5244.7 ppb	12:01:15
3	Na 589.592 Radial†	1522.3	1827.7	10800 µg/L	10800 ppb	12:00:54
3	Sr 421.552†	32507.0	36005.9	528.98 µg/L	528.98 ppb	12:00:54
3	Sc 361.383	539173.5	539173.5	95.114 %		12:02:23
3	Y 371.029	482802.1	482802.1	92.707 %		12:02:23
3	Ag 328.068†	72333.6	76296.0	528.79 µg/L	528.79 ppb	12:02:28
3	As 188.979†	550.7	591.4	492.08 µg/L	492.08 ppb	12:02:48
3	B 249.677†	14399.7	14913.4	497.43 µg/L	497.43 ppb	12:02:28
3	Ba 233.527†	45661.5	48061.2	510.59 µg/L	510.59 ppb	12:02:28
3	Be 313.107†	883785.2	934690.2	500.42 µg/L	500.42 ppb	12:02:23
3	Cd 226.502†	29051.7	30702.4	496.24 µg/L	496.24 ppb	12:02:28
3	Co 228.616†	16011.7	16949.5	506.34 µg/L	506.34 ppb	12:02:28
3	Cr 267.716†	22646.7	23729.0	509.42 µg/L	509.42 ppb	12:02:28
3	Cu 324.752†	96804.6	99422.3	523.91 µg/L	523.91 ppb	12:02:28
3	Mn 257.610†	292458.8	307086.0	506.92 µg/L	506.92 ppb	12:02:28
3	Mo 202.031†	4092.3	4291.2	508.00 µg/L	508.00 ppb	12:02:48
3	Ni 231.604†	12289.8	13034.3	488.80 µg/L	488.80 ppb	12:02:48
3	P 214.914†	2504.0	2578.2	2422.9 µg/L	2422.9 ppb	12:02:48
3	Pb 220.353†	2544.0	2503.9	494.13 µg/L	494.13 ppb	12:02:48
3	S 181.975 Axial†	378.4	345.6	955.15 µg/L	955.15 ppb	12:02:48
3	Sb 206.836†	946.9	931.8	488.80 µg/L	488.80 ppb	12:02:48
3	Se 196.026†	197.4	257.8	501.15 µg/L	501.15 ppb	12:02:48
3	SiO2†	41617.5	42565.9	5380.5 µg/L	5380.5 ppb	12:02:28
3	Si 251.611†	42605.3	44496.8	2484.7 µg/L	2484.7 ppb	12:02:28
3	Sn 189.927†	1550.0	1606.5	494.94 µg/L	494.94 ppb	12:02:48
3	Ti 334.940†	181973.6	191806.8	524.62 µg/L	524.62 ppb	12:02:28
3	Tl 190.801†	934.8	1009.0	507.67 µg/L	507.67 ppb	12:02:48
3	U 367.007†	1960.4	1523.4	480.4 µg/L	480.4 ppb	12:02:28
3	V 292.402†	48091.8	50486.2	518.51 µg/L	518.51 ppb	12:02:28
3	Zn 213.857†	36082.5	37224.7	502.07 µg/L	502.07 ppb	12:02:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	543465.9	95.872	%	0.6869				0.72%
Sc RADIAL	5948.9	92.5	%	0.25				0.27%
Y 371.029	486682.9	93.452	%	0.7142				0.76%
Ag 328.068†	75641.7	524.27	µg/L	4.055	524.27	ppb	4.055	0.77%
QC value within limits for Ag 328.068 Recovery = 104.85%								
Al 396.153Radial†	5030.8	5212.7	µg/L	39.60	5212.7	ppb	39.60	0.76%
QC value within limits for Al 396.153Radial Recovery = 104.25%								
As 188.979†	585.4	487.07	µg/L	5.733	487.07	ppb	5.733	1.18%
QC value within limits for As 188.979 Recovery = 97.41%								
B 249.677†	14781.9	493.00	µg/L	3.840	493.00	ppb	3.840	0.78%
QC value within limits for B 249.677 Recovery = 98.60%								
Ba 233.527†	47674.5	506.48	µg/L	3.666	506.48	ppb	3.666	0.72%
QC value within limits for Ba 233.527 Recovery = 101.30%								
Be 313.107†	936645.9	501.47	µg/L	0.910	501.47	ppb	0.910	0.18%
QC value within limits for Be 313.107 Recovery = 100.29%								
Ca 317.933Radial†	5244.6	5046.9	µg/L	13.43	5046.9	ppb	13.43	0.27%
QC value within limits for Ca 317.933Radial Recovery = 100.94%								
Cd 226.502†	30547.2	493.72	µg/L	2.597	493.72	ppb	2.597	0.53%
QC value within limits for Cd 226.502 Recovery = 98.74%								
Co 228.616†	16824.9	502.62	µg/L	3.264	502.62	ppb	3.264	0.65%

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   QC value within limits for Co 228.616  Recovery = 100.52%
Cr 267.716†            23578.2      506.18 µg/L         3.408      506.18 ppb          3.408   0.67%
   QC value within limits for Cr 267.716  Recovery = 101.24%
Cu 324.752†            98490.2      519.00 µg/L         4.307      519.00 ppb          4.307   0.83%
   QC value within limits for Cu 324.752  Recovery = 103.80%
Fe 238.204 Radial†      4881.6      5251.9 µg/L          2.50      5251.9 ppb           2.50   0.05%
   QC value within limits for Fe 238.204 Radial  Recovery = 105.04%
K 766.490 Radial†       6020.6      5222.8 µg/L         37.75      5222.8 ppb          37.75   0.72%
   QC value within limits for K 766.490 Radial  Recovery = 104.46%
Mg 279.077 IEC†          667.8      5242.8 µg/L          5.55      5242.8 ppb           5.55   0.11%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.86%
Mn 257.610†           304831.1      503.20 µg/L         3.367      503.20 ppb          3.367   0.67%
   QC value within limits for Mn 257.610  Recovery = 100.64%
Mo 202.031†             4278.2      506.45 µg/L         1.531      506.45 ppb          1.531   0.30%
   QC value within limits for Mo 202.031  Recovery = 101.29%
Na 589.592 Radial†      1827.7       10800 µg/L           5.4       10800 ppb            5.4   0.05%
   QC value within limits for Na 589.592 Radial  Recovery = 108.00%
Ni 231.604†            12959.6      486.00 µg/L         3.124      486.00 ppb          3.124   0.64%
   QC value within limits for Ni 231.604  Recovery = 97.20%
P 214.914†              2567.5      2412.8 µg/L         10.47      2412.8 ppb          10.47   0.43%
   QC value within limits for P 214.914  Recovery = 96.51%
Pb 220.353†             2498.7      493.12 µg/L         2.241      493.12 ppb          2.241   0.45%
   QC value within limits for Pb 220.353  Recovery = 98.62%
S 181.975 Axial†         342.1      945.58 µg/L         8.301      945.58 ppb          8.301   0.88%
   QC value within limits for S 181.975 Axial  Recovery = 94.56%
Sb 206.836†              933.3      489.65 µg/L         5.721      489.65 ppb          5.721   1.17%
   QC value within limits for Sb 206.836  Recovery = 97.93%
Se 196.026†              253.4      492.74 µg/L         7.342      492.74 ppb          7.342   1.49%
   QC value within limits for Se 196.026  Recovery = 98.55%
SiO2†                  42221.2      5335.3 µg/L         39.73      5335.3 ppb          39.73   0.74%
   QC value within limits for SiO2  Recovery = 99.77%
Si 251.611†            44124.8      2463.1 µg/L         18.87      2463.1 ppb          18.87   0.77%
   QC value within limits for Si 251.611  Recovery = 98.52%
Sn 189.927†             1595.5      491.55 µg/L         3.190      491.55 ppb          3.190   0.65%
   QC value within limits for Sn 189.927  Recovery = 98.31%
Sr 421.552†            35930.9      527.88 µg/L         0.955      527.88 ppb          0.955   0.18%
   QC value within limits for Sr 421.552  Recovery = 105.58%
Ti 334.940†           190084.0      519.91 µg/L         4.234      519.91 ppb          4.234   0.81%
   QC value within limits for Ti 334.940  Recovery = 103.98%
Tl 190.801†              999.2      502.78 µg/L         4.253      502.78 ppb          4.253   0.85%
   QC value within limits for Tl 190.801  Recovery = 100.56%
U 367.007†              1519.4       479.0 µg/L          2.40       479.0 ppb           2.40   0.50%
   QC value within limits for U 367.007  Recovery = 95.81%
V 292.402†             50075.3      514.32 µg/L         3.994      514.32 ppb          3.994   0.78%
   QC value within limits for V 292.402  Recovery = 102.86%
Zn 213.857†            36988.6      498.88 µg/L         2.967      498.88 ppb          2.967   0.59%
   QC value within limits for Zn 213.857  Recovery = 99.78%
All analyte(s) passed QC.
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Sequence No.: 15 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 12:02:56**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5866.7	5866.7	91.2	%			12:03:24
1	Al 396.153Radial†	-147.5	13.6	14.185	µg/L	14.185	ppb	12:03:24
1	Ca 317.933Radial†	46.2	3.7	3.6047	µg/L	3.6047	ppb	12:03:44
1	Fe 238.204 Radial†	34.0	-2.7	-2.8932	µg/L	-2.8932	ppb	12:03:44
1	K 766.490 Radial†	610.1	7.5	6.4671	µg/L	6.4671	ppb	12:03:24
1	Mg 279.077 IEC†	0.7	-7.5	-59.010	µg/L	-59.010	ppb	12:03:44
1	Na 589.592 Radial†	-158.7	9.0	53.235	µg/L	53.235	ppb	12:03:24
1	Sr 421.552†	-830.6	-24.8	-0.3638	µg/L	-0.3638	ppb	12:03:24
1	Sc 361.383	523891.2	523891.2	92.418	%			12:04:41
1	Y 371.029	482660.8	482660.8	92.680	%			12:04:41
1	Ag 328.068†	-271.3	-46.7	-0.3167	µg/L	-0.3167	ppb	12:04:41
1	As 188.979†	-25.5	-15.2	-12.585	µg/L	-12.585	ppb	12:05:01
1	B 249.677†	281.0	78.1	2.6204	µg/L	2.6204	ppb	12:04:41
1	Ba 233.527†	-45.7	4.7	0.0511	µg/L	0.0511	ppb	12:05:01
1	Be 313.107†	-5071.0	21.3	0.0103	µg/L	0.0103	ppb	12:04:41
1	Cd 226.502†	-149.6	-3.5	-0.0564	µg/L	-0.0564	ppb	12:05:01
1	Co 228.616†	-96.1	11.4	0.3398	µg/L	0.3398	ppb	12:05:01
1	Cr 267.716†	80.9	6.6	0.1435	µg/L	0.1435	ppb	12:05:01
1	Cu 324.752†	2230.7	58.9	0.3063	µg/L	0.3063	ppb	12:04:41
1	Mn 257.610†	381.6	17.6	0.0309	µg/L	0.0309	ppb	12:04:41
1	Mo 202.031†	14.8	4.7	0.5570	µg/L	0.5570	ppb	12:05:01
1	Ni 231.604†	-108.2	-3.7	-0.1410	µg/L	-0.1410	ppb	12:05:01
1	P 214.914†	70.8	22.3	21.059	µg/L	21.059	ppb	12:05:01
1	Pb 220.353†	155.2	-2.8	-0.5619	µg/L	-0.5619	ppb	12:05:01
1	S 181.975 Axial†	50.0	1.9	5.1090	µg/L	5.1090	ppb	12:05:01
1	Sb 206.836†	65.1	6.7	3.5302	µg/L	3.5302	ppb	12:05:01
1	Se 196.026†	-47.8	-1.4	-2.6270	µg/L	-2.6270	ppb	12:05:01
1	SiO2†	1244.2	156.9	19.944	µg/L	19.944	ppb	12:04:41
1	Si 251.611†	276.1	1.9	0.0345	µg/L	0.0345	ppb	12:05:01
1	Sn 189.927†	26.0	5.0	1.5494	µg/L	1.5494	ppb	12:05:01
1	Ti 334.940†	-259.9	204.8	0.5635	µg/L	0.5635	ppb	12:04:41
1	Tl 190.801†	-32.1	-8.5	-4.2599	µg/L	-4.2599	ppb	12:05:01
1	U 367.007†	481.7	-16.5	-5.476	µg/L	-5.476	ppb	12:04:41
1	V 292.402†	134.2	69.4	0.7043	µg/L	0.7043	ppb	12:04:41
1	Zn 213.857†	674.2	18.3	0.2503	µg/L	0.2503	ppb	12:05:01
2	Sc RADIAL	5876.7	5876.7	91.3	%			12:03:49
2	Al 396.153Radial†	-170.8	-11.7	-12.296	µg/L	-12.296	ppb	12:03:49
2	Ca 317.933Radial†	37.4	-5.9	-5.7133	µg/L	-5.7133	ppb	12:04:09
2	Fe 238.204 Radial†	37.2	0.7	0.7176	µg/L	0.7176	ppb	12:04:09
2	K 766.490 Radial†	631.0	29.2	25.383	µg/L	25.383	ppb	12:03:49
2	Mg 279.077 IEC†	7.5	-0.1	-0.4224	µg/L	-0.4224	ppb	12:04:09
2	Na 589.592 Radial†	-173.2	-6.6	-39.061	µg/L	-39.061	ppb	12:03:49
2	Sr 421.552†	-807.9	1.6	0.0239	µg/L	0.0239	ppb	12:03:49
2	Sc 361.383	523904.5	523904.5	92.421	%			12:05:06
2	Y 371.029	482868.7	482868.7	92.719	%			12:05:06
2	Ag 328.068†	-199.7	30.8	0.2155	µg/L	0.2155	ppb	12:05:06
2	As 188.979†	-14.1	-2.8	-2.3492	µg/L	-2.3492	ppb	12:05:26
2	B 249.677†	245.7	39.9	1.3274	µg/L	1.3274	ppb	12:05:06
2	Ba 233.527†	-74.8	-26.8	-0.2837	µg/L	-0.2837	ppb	12:05:26
2	Be 313.107†	-5050.6	43.5	0.0244	µg/L	0.0244	ppb	12:05:06
2	Cd 226.502†	-152.5	-6.6	-0.1058	µg/L	-0.1058	ppb	12:05:26
2	Co 228.616†	-95.9	11.6	0.3474	µg/L	0.3474	ppb	12:05:26
2	Cr 267.716†	78.1	3.5	0.0720	µg/L	0.0720	ppb	12:05:26
2	Cu 324.752†	2268.2	99.4	0.5263	µg/L	0.5263	ppb	12:05:06
2	Mn 257.610†	348.2	-18.6	-0.0305	µg/L	-0.0305	ppb	12:05:06
2	Mo 202.031†	18.3	8.5	1.0020	µg/L	1.0020	ppb	12:05:26
2	Ni 231.604†	-93.7	11.9	0.4466	µg/L	0.4466	ppb	12:05:26
2	P 214.914†	50.8	0.6	0.5744	µg/L	0.5744	ppb	12:05:26
2	Pb 220.353†	155.5	-2.6	-0.4997	µg/L	-0.4997	ppb	12:05:26

2	S 181.975 Axial†	50.0	1.8	5.0730	µg/L	5.0730	ppb	12:05:26
2	Sb 206.836†	59.7	0.8	0.4624	µg/L	0.4624	ppb	12:05:26
2	Se 196.026†	-46.0	0.6	1.1198	µg/L	1.1198	ppb	12:05:26
2	SiO2†	1118.1	20.4	2.1064	µg/L	2.1064	ppb	12:05:06
2	Si 251.611†	294.7	22.0	0.9782	µg/L	0.9782	ppb	12:05:26
2	Sn 189.927†	24.3	3.2	0.9868	µg/L	0.9868	ppb	12:05:26
2	Ti 334.940†	-499.4	-54.4	-0.1517	µg/L	-0.1517	ppb	12:05:06
2	Tl 190.801†	-30.4	-6.7	-3.3429	µg/L	-3.3429	ppb	12:05:26
2	U 367.007†	512.8	17.2	5.717	µg/L	5.717	ppb	12:05:06
2	V 292.402†	126.4	60.9	0.6331	µg/L	0.6331	ppb	12:05:06
2	Zn 213.857†	692.6	38.2	0.5155	µg/L	0.5155	ppb	12:05:26
3	Sc RADIAL	5971.0	5971.0	92.8	%			12:04:14
3	Al 396.153Radial†	-165.6	-3.1	-3.2487	µg/L	-3.2487	ppb	12:04:14
3	Ca 317.933Radial†	41.4	-2.3	-2.2102	µg/L	-2.2102	ppb	12:04:34
3	Fe 238.204 Radial†	36.2	-1.1	-1.1322	µg/L	-1.1322	ppb	12:04:34
3	K 766.490 Radial†	632.0	19.4	16.879	µg/L	16.879	ppb	12:04:14
3	Mg 279.077 IEC†	8.8	1.2	9.4298	µg/L	9.4298	ppb	12:04:34
3	Na 589.592 Radial†	-170.3	-0.5	-2.8300	µg/L	-2.8300	ppb	12:04:14
3	Sr 421.552†	-873.9	-55.5	-0.8160	µg/L	-0.8160	ppb	12:04:14
3	Sc 361.383	529539.4	529539.4	93.415	%			12:05:32
3	Y 371.029	487542.7	487542.7	93.617	%			12:05:32
3	Ag 328.068†	-329.5	-105.9	-0.7291	µg/L	-0.7291	ppb	12:05:32
3	As 188.979†	-13.1	-1.6	-1.3570	µg/L	-1.3570	ppb	12:05:52
3	B 249.677†	246.1	37.4	1.2483	µg/L	1.2483	ppb	12:05:32
3	Ba 233.527†	-68.3	-19.0	-0.2016	µg/L	-0.2016	ppb	12:05:52
3	Be 313.107†	-5074.9	75.7	0.0405	µg/L	0.0405	ppb	12:05:32
3	Cd 226.502†	-139.5	9.1	0.1470	µg/L	0.1470	ppb	12:05:52
3	Co 228.616†	-95.6	13.0	0.3879	µg/L	0.3879	ppb	12:05:52
3	Cr 267.716†	56.7	-20.3	-0.4369	µg/L	-0.4369	ppb	12:05:52
3	Cu 324.752†	2195.5	-4.6	-0.0232	µg/L	-0.0232	ppb	12:05:32
3	Mn 257.610†	364.5	-5.1	-0.0089	µg/L	-0.0089	ppb	12:05:32
3	Mo 202.031†	2.8	-8.3	-0.9865	µg/L	-0.9865	ppb	12:05:52
3	Ni 231.604†	-87.6	19.6	0.7336	µg/L	0.7336	ppb	12:05:52
3	P 214.914†	57.5	7.2	6.8603	µg/L	6.8603	ppb	12:05:52
3	Pb 220.353†	156.4	-3.4	-0.6747	µg/L	-0.6747	ppb	12:05:52
3	S 181.975 Axial†	50.5	1.8	4.8413	µg/L	4.8413	ppb	12:05:52
3	Sb 206.836†	55.8	-4.0	-2.1081	µg/L	-2.1081	ppb	12:05:52
3	Se 196.026†	-60.4	-14.4	-27.366	µg/L	-27.366	ppb	12:05:52
3	SiO2†	1143.4	34.6	4.0184	µg/L	4.0184	ppb	12:05:32
3	Si 251.611†	288.5	11.9	0.5127	µg/L	0.5127	ppb	12:05:52
3	Sn 189.927†	20.2	-1.4	-0.4415	µg/L	-0.4415	ppb	12:05:52
3	Ti 334.940†	-453.7	0.3	0.0006	µg/L	0.0006	ppb	12:05:32
3	Tl 190.801†	-31.8	-7.9	-3.9549	µg/L	-3.9549	ppb	12:05:52
3	U 367.007†	503.9	1.8	0.597	µg/L	0.597	ppb	12:05:32
3	V 292.402†	48.9	-23.6	-0.2507	µg/L	-0.2507	ppb	12:05:32
3	Zn 213.857†	694.6	32.3	0.4345	µg/L	0.4345	ppb	12:05:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	525778.4	92.751	%	0.5746				0.62%
Sc RADIAL	5904.8	91.8	%	0.89				0.97%
Y 371.029	484357.4	93.005	%	0.5301				0.57%
Ag 328.068†	-40.6	-0.2767	µg/L	0.47356	-0.2767	ppb	0.47356	171.12%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-0.4	-0.4534	µg/L	13.45996	-0.4534	ppb	13.45996	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-6.5	-5.4304	µg/L	6.21595	-5.4304	ppb	6.21595	114.46%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	51.8	1.7320	µg/L	0.77035	1.7320	ppb	0.77035	44.48%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-13.7	-0.1447	µg/L	0.17452	-0.1447	ppb	0.17452	120.58%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	46.8	0.0251	µg/L	0.01510	0.0251	ppb	0.01510	60.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-1.5	-1.4396	µg/L	4.70655	-1.4396	ppb	4.70655	326.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-0.3	-0.0051	µg/L	0.13400	-0.0051	ppb	0.13400	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	12.0	0.3584	µg/L	0.02584	0.3584	ppb	0.02584	7.21%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -3.4     -0.0738 µg/L       0.31646     -0.0738 ppb        0.31646 428.76%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                51.2      0.2698 µg/L       0.27658      0.2698 ppb        0.27658 102.51%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -1.0     -1.1026 µg/L       1.80558     -1.1026 ppb        1.80558 163.75%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          18.7      16.243 µg/L        9.4740      16.243 ppb         9.4740  58.33%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -2.1     -16.667 µg/L       36.9988     -16.667 ppb        36.9988 221.98%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                -2.0     -0.0029 µg/L       0.03115     -0.0029 ppb        0.03115 >999.9%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 1.6      0.1908 µg/L       1.04358      0.1908 ppb        1.04358 546.86%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          0.6      3.7812 µg/L      46.50211      3.7812 ppb       46.50211 >999.9%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 9.2      0.3464 µg/L       0.44578      0.3464 ppb        0.44578 128.69%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 10.1      9.4979 µg/L      10.49401      9.4979 ppb       10.49401 110.49%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -2.9     -0.5788 µg/L       0.08872     -0.5788 ppb        0.08872  15.33%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            1.8      5.0078 µg/L       0.14527      5.0078 ppb        0.14527   2.90%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 1.2      0.6281 µg/L       2.82283      0.6281 ppb        2.82283 449.39%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -5.1     -9.6244 µg/L      15.47835     -9.6244 ppb       15.47835 160.82%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      70.6      8.6896 µg/L       9.79335      8.6896 ppb        9.79335 112.70%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                11.9      0.5085 µg/L       0.47188      0.5085 ppb        0.47188  92.80%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 2.3      0.6982 µg/L       1.02636      0.6982 ppb        1.02636 147.00%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -26.2     -0.3853 µg/L       0.42036     -0.3853 ppb        0.42036 109.10%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                50.2      0.1375 µg/L       0.37674      0.1375 ppb        0.37674 274.07%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -7.7     -3.8525 µg/L       0.46699     -3.8525 ppb        0.46699  12.12%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                  0.8       0.280 µg/L        5.6033       0.280 ppb         5.6033 >999.9%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 35.6      0.3622 µg/L       0.53201      0.3622 ppb        0.53201 146.87%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                29.6      0.4001 µg/L       0.13590      0.4001 ppb        0.13590  33.97%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Analysis Begun

Start Time: 11/5/2013 12:29:50 **Plasma On Time: 11/5/2013 5:57:05**
Logged In Analyst: optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: AS-93plus

Sample Information File: C:\pe\Optima3\Sample Information\110513.sif
Batch ID:
Results Data Set: 110513A
Results Library: C:\pe\optima3\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 301**
Sample ID: 1202969089|1339673|1 **Date Collected: 11/5/2013 12:29:51**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969089|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5878.8	5878.8	91.4	%			12:30:22
1	Al 396.153Radial†	-137.6	24.7	25.873	µg/L	25.873	ppb	12:30:22
1	Ca 317.933Radial†	54.4	12.6	12.155	µg/L	12.155	ppb	12:30:42
1	Fe 238.204 Radial†	34.6	-2.1	-2.2891	µg/L	-2.2891	ppb	12:30:42
1	K 766.490 Radial†	635.3	33.7	29.219	µg/L	29.219	ppb	12:30:22
1	Mg 279.077 IEC†	4.8	-3.1	-24.285	µg/L	-24.285	ppb	12:30:42
1	Na 589.592 Radial†	-155.1	13.3	78.612	µg/L	78.612	ppb	12:30:22
1	Sr 421.552†	-816.2	-7.2	-0.1056	µg/L	-0.1056	ppb	12:30:22
1	Sc 361.383	531162.3	531162.3	93.701	%			12:31:39
1	Y 371.029	486192.4	486192.4	93.358	%			12:31:39
1	Ag 328.068†	-367.6	-145.4	-0.9992	µg/L	-0.9992	ppb	12:31:39
1	As 188.979†	-6.5	5.4	4.5226	µg/L	4.5226	ppb	12:31:59
1	B 249.677†	213.9	2.3	0.0644	µg/L	0.0644	ppb	12:31:39
1	Ba 233.527†	-66.3	-16.6	-0.1756	µg/L	-0.1756	ppb	12:31:59
1	Be 313.107†	-5035.0	134.8	0.0729	µg/L	0.0729	ppb	12:31:39
1	Cd 226.502†	-164.2	-16.8	-0.2709	µg/L	-0.2709	ppb	12:31:59
1	Co 228.616†	-106.8	1.3	0.0384	µg/L	0.0384	ppb	12:31:59
1	Cr 267.716†	75.9	0.1	-0.0014	µg/L	-0.0014	ppb	12:31:59
1	Cu 324.752†	2208.0	1.6	0.0106	µg/L	0.0106	ppb	12:31:39
1	Mn 257.610†	409.1	41.3	0.0689	µg/L	0.0689	ppb	12:31:39
1	Mo 202.031†	5.6	-5.3	-0.6281	µg/L	-0.6281	ppb	12:31:59
1	Ni 231.604†	-72.1	36.3	1.3631	µg/L	1.3631	ppb	12:31:59
1	P 214.914†	57.1	6.6	6.2284	µg/L	6.2284	ppb	12:31:59
1	Pb 220.353†	149.1	-11.7	-2.3258	µg/L	-2.3258	ppb	12:31:59
1	S 181.975 Axial†	52.2	3.4	9.3006	µg/L	9.3006	ppb	12:31:59
1	Sb 206.836†	60.2	0.6	0.2885	µg/L	0.2885	ppb	12:31:59
1	Se 196.026†	-41.2	6.3	12.090	µg/L	12.090	ppb	12:31:59
1	SiO2†	1140.8	28.1	2.9543	µg/L	2.9543	ppb	12:31:39
1	Si 251.611†	288.1	10.6	0.3052	µg/L	0.3052	ppb	12:31:59
1	Sn 189.927†	21.2	-0.4	-0.1276	µg/L	-0.1276	ppb	12:31:59
1	Ti 334.940†	-339.2	124.0	0.3386	µg/L	0.3386	ppb	12:31:39
1	Tl 190.801†	-29.4	-5.2	-2.5946	µg/L	-2.5946	ppb	12:31:59
1	U 367.007†	512.6	9.3	3.113	µg/L	3.113	ppb	12:31:39
1	V 292.402†	71.7	0.6	0.0013	µg/L	0.0013	ppb	12:31:39
1	Zn 213.857†	705.5	41.6	0.5573	µg/L	0.5573	ppb	12:31:59
2	Sc RADIAL	5918.9	5918.9	92.0	%			12:30:48
2	Al 396.153Radial†	-144.4	18.4	19.200	µg/L	19.200	ppb	12:30:48
2	Ca 317.933Radial†	46.7	3.8	3.6739	µg/L	3.6739	ppb	12:31:08
2	Fe 238.204 Radial†	34.9	-2.0	-2.1805	µg/L	-2.1805	ppb	12:31:08
2	K 766.490 Radial†	622.6	15.2	13.168	µg/L	13.168	ppb	12:30:48
2	Mg 279.077 IEC†	7.7	0.1	0.5890	µg/L	0.5890	ppb	12:31:08
2	Na 589.592 Radial†	-158.9	10.4	61.225	µg/L	61.225	ppb	12:30:48
2	Sr 421.552†	-812.2	3.2	0.0476	µg/L	0.0476	ppb	12:30:48
2	Sc 361.383	533740.7	533740.7	94.156	%			12:32:05
2	Y 371.029	488016.3	488016.3	93.708	%			12:32:05
2	Ag 328.068†	-338.8	-113.0	-0.7758	µg/L	-0.7758	ppb	12:32:05
2	As 188.979†	-20.3	-9.1	-7.5838	µg/L	-7.5838	ppb	12:32:25

2	B 249.677†	201.3	-12.2	-0.4163	µg/L	-0.4163	ppb	12:32:05
2	Ba 233.527†	-66.2	-16.2	-0.1715	µg/L	-0.1715	ppb	12:32:25
2	Be 313.107†	-5168.3	19.2	0.0119	µg/L	0.0119	ppb	12:32:05
2	Cd 226.502†	-148.3	0.9	0.0158	µg/L	0.0158	ppb	12:32:25
2	Co 228.616†	-96.9	12.5	0.3724	µg/L	0.3724	ppb	12:32:25
2	Cr 267.716†	104.6	30.1	0.6421	µg/L	0.6421	ppb	12:32:25
2	Cu 324.752†	2196.4	-22.1	-0.1121	µg/L	-0.1121	ppb	12:32:05
2	Mn 257.610†	441.0	73.1	0.1205	µg/L	0.1205	ppb	12:32:05
2	Mo 202.031†	12.2	1.7	0.1980	µg/L	0.1980	ppb	12:32:25
2	Ni 231.604†	-90.2	17.4	0.6539	µg/L	0.6539	ppb	12:32:25
2	P 214.914†	64.6	14.3	13.485	µg/L	13.485	ppb	12:32:25
2	Pb 220.353†	152.5	-8.9	-1.7628	µg/L	-1.7628	ppb	12:32:25
2	S 181.975 Axial†	44.3	-5.2	-14.209	µg/L	-14.209	ppb	12:32:25
2	Sb 206.836†	59.2	-0.9	-0.4883	µg/L	-0.4883	ppb	12:32:25
2	Se 196.026†	-43.6	4.0	7.5882	µg/L	7.5882	ppb	12:32:25
2	SiO2†	1178.6	62.4	7.7979	µg/L	7.7979	ppb	12:32:05
2	Si 251.611†	303.1	25.0	1.2850	µg/L	1.2850	ppb	12:32:25
2	Sn 189.927†	24.0	2.4	0.7259	µg/L	0.7259	ppb	12:32:25
2	Ti 334.940†	-442.2	16.3	0.0413	µg/L	0.0413	ppb	12:32:05
2	Tl 190.801†	-35.4	-11.4	-5.6921	µg/L	-5.6921	ppb	12:32:25
2	U 367.007†	525.8	20.8	6.928	µg/L	6.928	ppb	12:32:05
2	V 292.402†	80.3	9.4	0.1044	µg/L	0.1044	ppb	12:32:05
2	Zn 213.857†	702.1	34.5	0.4647	µg/L	0.4647	ppb	12:32:25
3	Sc RADIAL	5905.5	5905.5	91.8	%			12:31:13
3	Al 396.153Radial†	-142.1	20.5	21.422	µg/L	21.422	ppb	12:31:13
3	Ca 317.933Radial†	43.8	0.8	0.7253	µg/L	0.7253	ppb	12:31:33
3	Fe 238.204 Radial†	34.2	-2.7	-2.9358	µg/L	-2.9358	ppb	12:31:33
3	K 766.490 Radial†	569.1	-41.5	-36.153	µg/L	-36.153	ppb	12:31:13
3	Mg 279.077 IEC†	9.8	2.3	18.166	µg/L	18.166	ppb	12:31:33
3	Na 589.592 Radial†	-156.1	13.0	76.921	µg/L	76.921	ppb	12:31:13
3	Sr 421.552†	-839.8	-28.8	-0.4233	µg/L	-0.4233	ppb	12:31:13
3	Sc 361.383	535823.1	535823.1	94.523	%			12:32:30
3	Y 371.029	490397.5	490397.5	94.165	%			12:32:30
3	Ag 328.068†	-266.6	-35.2	-0.2351	µg/L	-0.2351	ppb	12:32:30
3	As 188.979†	-15.6	-4.1	-3.4362	µg/L	-3.4362	ppb	12:32:50
3	B 249.677†	263.9	53.2	1.8055	µg/L	1.8055	ppb	12:32:30
3	Ba 233.527†	-81.3	-31.9	-0.3367	µg/L	-0.3367	ppb	12:32:50
3	Be 313.107†	-5103.3	109.3	0.0615	µg/L	0.0615	ppb	12:32:30
3	Cd 226.502†	-163.8	-14.9	-0.2407	µg/L	-0.2407	ppb	12:32:50
3	Co 228.616†	-111.7	-2.8	-0.0843	µg/L	-0.0843	ppb	12:32:50
3	Cr 267.716†	73.9	-2.8	-0.0679	µg/L	-0.0679	ppb	12:32:50
3	Cu 324.752†	2307.8	86.7	0.4650	µg/L	0.4650	ppb	12:32:30
3	Mn 257.610†	381.5	8.4	0.0129	µg/L	0.0129	ppb	12:32:30
3	Mo 202.031†	12.3	1.7	0.1981	µg/L	0.1981	ppb	12:32:50
3	Ni 231.604†	-105.3	1.9	0.0700	µg/L	0.0700	ppb	12:32:50
3	P 214.914†	56.4	5.3	4.9844	µg/L	4.9844	ppb	12:32:50
3	Pb 220.353†	132.7	-30.4	-6.0088	µg/L	-6.0088	ppb	12:32:50
3	S 181.975 Axial†	40.3	-9.7	-26.448	µg/L	-26.448	ppb	12:32:50
3	Sb 206.836†	53.5	-7.2	-3.7823	µg/L	-3.7823	ppb	12:32:50
3	Se 196.026†	-52.0	-4.7	-8.8280	µg/L	-8.8280	ppb	12:32:50
3	SiO2†	1194.0	73.8	10.435	µg/L	10.435	ppb	12:32:30
3	Si 251.611†	320.0	41.7	2.7618	µg/L	2.7618	ppb	12:32:50
3	Sn 189.927†	31.8	10.5	3.2275	µg/L	3.2275	ppb	12:32:50
3	Ti 334.940†	-427.1	34.1	0.0864	µg/L	0.0864	ppb	12:32:30
3	Tl 190.801†	-28.9	-4.3	-2.1652	µg/L	-2.1652	ppb	12:32:50
3	U 367.007†	549.7	43.8	14.60	µg/L	14.60	ppb	12:32:30
3	V 292.402†	175.6	109.9	1.1270	µg/L	1.1270	ppb	12:32:30
3	Zn 213.857†	707.8	37.5	0.5093	µg/L	0.5093	ppb	12:32:50

Mean Data: 1202969089|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	533575.4	94.127	%	0.4119				0.44%
Sc RADIAL	5901.1	91.7	%	0.32				0.35%
Y 371.029	488202.1	93.744	%	0.4049				0.43%
Ag 328.068†	-97.9	-0.6701	µg/L	0.39287	-0.6701	ppb	0.39287	58.63%
Al 396.153Radial†	21.2	22.165	µg/L	3.3980	22.165	ppb	3.3980	15.33%
As 188.979†	-2.6	-2.1658	µg/L	6.15238	-2.1658	ppb	6.15238	284.07%
B 249.677†	14.4	0.4846	µg/L	1.16898	0.4846	ppb	1.16898	241.25%
Ba 233.527†	-21.5	-0.2279	µg/L	0.09425	-0.2279	ppb	0.09425	41.35%

Be 313.107†	87.8	0.0488	µg/L	0.03246	0.0488	ppb	0.03246	66.56%
Ca 317.933Radial†	5.7	5.5180	µg/L	5.93371	5.5180	ppb	5.93371	107.53%
Cd 226.502†	-10.3	-0.1653	µg/L	0.15753	-0.1653	ppb	0.15753	95.31%
Co 228.616†	3.7	0.1089	µg/L	0.23636	0.1089	ppb	0.23636	217.13%
Cr 267.716†	9.1	0.1909	µg/L	0.39213	0.1909	ppb	0.39213	205.36%
Cu 324.752†	22.1	0.1211	µg/L	0.30403	0.1211	ppb	0.30403	250.96%
Fe 238.204 Radial†	-2.3	-2.4685	µg/L	0.40837	-2.4685	ppb	0.40837	16.54%
K 766.490 Radial†	2.4	2.0782	µg/L	34.06791	2.0782	ppb	34.06791	>999.9%
Mg 279.077 IEC†	-0.2	-1.8434	µg/L	21.32987	-1.8434	ppb	21.32987	>999.9%
Mn 257.610†	40.9	0.0674	µg/L	0.05380	0.0674	ppb	0.05380	79.82%
Mo 202.031†	-0.7	-0.0773	µg/L	0.47699	-0.0773	ppb	0.47699	616.88%
Na 589.592 Radial†	12.2	72.253	µg/L	9.5875	72.253	ppb	9.5875	13.27%
Ni 231.604†	18.5	0.6957	µg/L	0.64755	0.6957	ppb	0.64755	93.08%
P 214.914†	8.7	8.2327	µg/L	4.59115	8.2327	ppb	4.59115	55.77%
Pb 220.353†	-17.0	-3.3658	µg/L	2.30617	-3.3658	ppb	2.30617	68.52%
S 181.975 Axial†	-3.8	-10.452	µg/L	18.1682	-10.452	ppb	18.1682	173.82%
Sb 206.836†	-2.5	-1.3274	µg/L	2.16120	-1.3274	ppb	2.16120	162.82%
Se 196.026†	1.9	3.6167	µg/L	11.00998	3.6167	ppb	11.00998	304.42%
SiO2†	54.8	7.0624	µg/L	3.79432	7.0624	ppb	3.79432	53.73%
Si 251.611†	25.7	1.4507	µg/L	1.23669	1.4507	ppb	1.23669	85.25%
Sn 189.927†	4.2	1.2753	µg/L	1.74372	1.2753	ppb	1.74372	136.73%
Sr 421.552†	-10.9	-0.1604	µg/L	0.24023	-0.1604	ppb	0.24023	149.72%
Ti 334.940†	58.1	0.1554	µg/L	0.16019	0.1554	ppb	0.16019	103.06%
Tl 190.801†	-7.0	-3.4840	µg/L	1.92433	-3.4840	ppb	1.92433	55.23%
U 367.007†	24.6	8.214	µg/L	5.8503	8.214	ppb	5.8503	71.23%
V 292.402†	40.0	0.4109	µg/L	0.62233	0.4109	ppb	0.62233	151.46%
Zn 213.857†	37.9	0.5105	µg/L	0.04632	0.5105	ppb	0.04632	9.07%

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Sequence No.: 2 **Autosampler Location: 302**
Sample ID: 1202969090|1339673|1 **Date Collected: 11/5/2013 12:32:58**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969090|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5883.5	5883.5	91.4	%			12:33:46
1	Al 396.153Radial†	4664.9	5276.8	5469.5	µg/L	5469.5	ppb	12:33:26
1	Ca 317.933Radial†	5088.4	5517.8	5309.7	µg/L	5309.7	ppb	12:33:46
1	Fe 238.204 Radial†	4759.5	5165.0	5556.7	µg/L	5556.7	ppb	12:33:46
1	K 766.490 Radial†	6428.4	6368.4	5527.3	µg/L	5527.3	ppb	12:33:26
1	Mg 279.077 IEC†	660.5	714.0	5606.0	µg/L	5606.0	ppb	12:33:46
1	Na 589.592 Radial†	758.2	1012.2	5981.1	µg/L	5981.1	ppb	12:33:26
1	Sr 421.552†	34586.6	38710.1	568.71	µg/L	568.71	ppb	12:33:26
1	Sc 361.383	542984.3	542984.3	95.787	%			12:34:43
1	Y 371.029	486092.8	486092.8	93.339	%			12:34:43
1	Ag 328.068†	73427.4	76904.1	532.90	µg/L	532.90	ppb	12:34:49
1	As 188.979†	564.3	601.5	500.51	µg/L	500.51	ppb	12:35:09
1	B 249.677†	14854.0	15281.4	509.51	µg/L	509.51	ppb	12:34:49
1	Ba 233.527†	47944.1	50107.2	532.27	µg/L	532.27	ppb	12:34:49
1	Be 313.107†	950347.8	997659.4	534.11	µg/L	534.11	ppb	12:34:43
1	Cd 226.502†	30180.2	31666.2	511.79	µg/L	511.79	ppb	12:34:49
1	Co 228.616†	16661.8	17510.1	523.13	µg/L	523.13	ppb	12:34:49
1	Cr 267.716†	21837.8	22717.4	487.71	µg/L	487.71	ppb	12:34:49
1	Cu 324.752†	94508.9	96311.3	507.54	µg/L	507.54	ppb	12:34:49
1	Mn 257.610†	283234.6	295298.1	487.48	µg/L	487.48	ppb	12:34:49
1	Mo 202.031†	3904.6	4065.1	481.25	µg/L	481.25	ppb	12:35:09
1	Ni 231.604†	11867.0	12502.3	468.84	µg/L	468.84	ppb	12:35:09
1	P 214.914†	563.8	534.2	490.73	µg/L	490.73	ppb	12:35:09
1	Pb 220.353†	2749.0	2699.1	532.49	µg/L	532.49	ppb	12:35:09
1	S 181.975 Axial†	1608.8	1627.3	4465.4	µg/L	4465.4	ppb	12:35:09
1	Sb 206.836†	919.7	896.4	470.16	µg/L	470.16	ppb	12:35:09
1	Se 196.026†	171.6	229.5	447.34	µg/L	447.34	ppb	12:35:09
1	SiO2†	74995.4	77104.9	9803.1	µg/L	9803.1	ppb	12:34:49
1	Si 251.611†	77116.8	80212.0	4524.7	µg/L	4524.7	ppb	12:34:49
1	Sn 189.927†	1500.1	1543.0	475.41	µg/L	475.41	ppb	12:35:09
1	Ti 334.940†	173137.7	181239.6	495.73	µg/L	495.73	ppb	12:34:49
1	Tl 190.801†	892.9	958.4	482.16	µg/L	482.16	ppb	12:35:09
1	U 367.007†	1919.1	1465.8	459.4	µg/L	459.4	ppb	12:34:49
1	V 292.402†	46254.0	48212.7	495.13	µg/L	495.13	ppb	12:34:49
1	Zn 213.857†	34002.2	34786.6	469.04	µg/L	469.04	ppb	12:34:49
2	Sc RADIAL	5874.2	5874.2	91.3	%			12:34:11
2	Al 396.153Radial†	4708.0	5332.1	5526.9	µg/L	5526.9	ppb	12:33:51
2	Ca 317.933Radial†	5062.0	5497.7	5290.3	µg/L	5290.3	ppb	12:34:11
2	Fe 238.204 Radial†	4714.1	5123.5	5512.2	µg/L	5512.2	ppb	12:34:11
2	K 766.490 Radial†	6341.2	6284.0	5453.9	µg/L	5453.9	ppb	12:33:51
2	Mg 279.077 IEC†	653.6	707.6	5555.3	µg/L	5555.3	ppb	12:34:11
2	Na 589.592 Radial†	742.8	996.7	5889.6	µg/L	5889.6	ppb	12:33:51
2	Sr 421.552†	34721.9	38918.0	571.76	µg/L	571.76	ppb	12:33:51
2	Sc 361.383	538799.2	538799.2	95.048	%			12:35:14
2	Y 371.029	482515.7	482515.7	92.652	%			12:35:14
2	Ag 328.068†	73865.6	77960.6	540.19	µg/L	540.19	ppb	12:35:19
2	As 188.979†	561.5	603.1	501.84	µg/L	501.84	ppb	12:35:39
2	B 249.677†	14842.3	15389.6	513.17	µg/L	513.17	ppb	12:35:19
2	Ba 233.527†	48111.3	50671.9	538.27	µg/L	538.27	ppb	12:35:19
2	Be 313.107†	940099.9	994584.3	532.47	µg/L	532.47	ppb	12:35:14
2	Cd 226.502†	30305.1	32042.3	517.88	µg/L	517.88	ppb	12:35:19
2	Co 228.616†	16744.9	17732.7	529.78	µg/L	529.78	ppb	12:35:19
2	Cr 267.716†	21881.9	22940.8	492.50	µg/L	492.50	ppb	12:35:19
2	Cu 324.752†	94812.8	97397.4	513.27	µg/L	513.27	ppb	12:35:19
2	Mn 257.610†	284306.0	298722.1	493.13	µg/L	493.13	ppb	12:35:19
2	Mo 202.031†	3902.7	4094.7	484.76	µg/L	484.76	ppb	12:35:39
2	Ni 231.604†	11852.5	12583.3	471.87	µg/L	471.87	ppb	12:35:39
2	P 214.914†	585.4	561.6	516.52	µg/L	516.52	ppb	12:35:39
2	Pb 220.353†	2702.7	2672.7	527.27	µg/L	527.27	ppb	12:35:39

2	S 181.975 Axial†	1615.1	1646.9	4519.4	µg/L	4519.4 ppb	12:35:39
2	Sb 206.836†	908.0	891.6	467.56	µg/L	467.56 ppb	12:35:39
2	Se 196.026†	181.9	241.7	470.66	µg/L	470.66 ppb	12:35:39
2	SiO2†	75252.5	77983.5	9918.0	µg/L	9918.0 ppb	12:35:19
2	Si 251.611†	77438.0	81175.4	4580.5	µg/L	4580.5 ppb	12:35:19
2	Sn 189.927†	1499.5	1554.6	478.97	µg/L	478.97 ppb	12:35:39
2	Ti 334.940†	173681.7	183215.9	501.12	µg/L	501.12 ppb	12:35:19
2	Tl 190.801†	890.8	963.4	484.69	µg/L	484.69 ppb	12:35:39
2	U 367.007†	1956.5	1520.7	478.0	µg/L	478.0 ppb	12:35:19
2	V 292.402†	46462.7	48807.4	501.21	µg/L	501.21 ppb	12:35:19
2	Zn 213.857†	34152.5	35220.6	474.92	µg/L	474.92 ppb	12:35:19
3	Sc RADIAL	5915.7	5915.7	91.9	%		12:34:36
3	Al 396.153Radial†	4710.4	5298.6	5491.6	µg/L	5491.6 ppb	12:34:16
3	Ca 317.933Radial†	5081.9	5480.4	5273.7	µg/L	5273.7 ppb	12:34:36
3	Fe 238.204 Radial†	4729.1	5103.5	5490.8	µg/L	5490.8 ppb	12:34:36
3	K 766.490 Radial†	6389.0	6287.3	5456.7	µg/L	5456.7 ppb	12:34:16
3	Mg 279.077 IEC†	655.3	704.4	5530.5	µg/L	5530.5 ppb	12:34:36
3	Na 589.592 Radial†	759.7	1009.3	5964.0	µg/L	5964.0 ppb	12:34:16
3	Sr 421.552†	34766.9	38700.3	568.56	µg/L	568.56 ppb	12:34:16
3	Sc 361.383	536361.6	536361.6	94.618	%		12:35:45
3	Y 371.029	480730.3	480730.3	92.309	%		12:35:45
3	Ag 328.068†	73720.1	78160.1	541.56	µg/L	541.56 ppb	12:35:50
3	As 188.979†	563.6	608.0	505.89	µg/L	505.89 ppb	12:36:10
3	B 249.677†	14815.2	15431.9	514.59	µg/L	514.59 ppb	12:35:50
3	Ba 233.527†	48158.2	50951.5	541.24	µg/L	541.24 ppb	12:35:50
3	Be 313.107†	936326.2	995090.8	532.75	µg/L	532.75 ppb	12:35:45
3	Cd 226.502†	30234.2	32112.2	519.01	µg/L	519.01 ppb	12:35:50
3	Co 228.616†	16789.8	17860.2	533.59	µg/L	533.59 ppb	12:35:50
3	Cr 267.716†	21808.1	22967.5	493.06	µg/L	493.06 ppb	12:35:50
3	Cu 324.752†	94644.4	97672.8	514.72	µg/L	514.72 ppb	12:35:50
3	Mn 257.610†	284326.6	300103.3	495.40	µg/L	495.40 ppb	12:35:50
3	Mo 202.031†	3878.8	4088.1	483.98	µg/L	483.98 ppb	12:36:10
3	Ni 231.604†	11817.0	12602.4	472.58	µg/L	472.58 ppb	12:36:10
3	P 214.914†	575.1	553.5	508.89	µg/L	508.89 ppb	12:36:10
3	Pb 220.353†	2710.3	2693.6	531.40	µg/L	531.40 ppb	12:36:10
3	S 181.975 Axial†	1601.4	1640.2	4500.9	µg/L	4500.9 ppb	12:36:10
3	Sb 206.836†	905.3	893.0	468.32	µg/L	468.32 ppb	12:36:10
3	Se 196.026†	177.5	237.9	463.44	µg/L	463.44 ppb	12:36:10
3	SiO2†	75245.7	78336.1	9963.2	µg/L	9963.2 ppb	12:35:50
3	Si 251.611†	77445.4	81553.5	4602.2	µg/L	4602.2 ppb	12:35:50
3	Sn 189.927†	1499.5	1561.7	481.17	µg/L	481.17 ppb	12:36:10
3	Ti 334.940†	173671.2	184035.2	503.36	µg/L	503.36 ppb	12:35:50
3	Tl 190.801†	884.1	960.6	483.31	µg/L	483.31 ppb	12:36:10
3	U 367.007†	1973.7	1548.3	487.3	µg/L	487.3 ppb	12:35:50
3	V 292.402†	46345.2	48905.3	502.20	µg/L	502.20 ppb	12:35:50
3	Zn 213.857†	34038.8	35263.6	475.50	µg/L	475.50 ppb	12:35:50

Mean Data: 1202969090|1339673|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	539381.7	95.151	%	0.5909				0.62%
Sc RADIAL	5891.1	91.6	%	0.34				0.37%
Y 371.029	483112.9	92.766	%	0.5243				0.57%
Ag 328.068†	77674.9	538.22	µg/L	4.651	538.22	ppb	4.651	0.86%
Al 396.153Radial†	5302.5	5496.0	µg/L	28.93	5496.0	ppb	28.93	0.53%
As 188.979†	604.2	502.75	µg/L	2.805	502.75	ppb	2.805	0.56%
B 249.677†	15367.6	512.42	µg/L	2.618	512.42	ppb	2.618	0.51%
Ba 233.527†	50576.9	537.26	µg/L	4.570	537.26	ppb	4.570	0.85%
Be 313.107†	995778.1	533.11	µg/L	0.879	533.11	ppb	0.879	0.16%
Ca 317.933Radial†	5498.6	5291.3	µg/L	18.02	5291.3	ppb	18.02	0.34%
Cd 226.502†	31940.2	516.22	µg/L	3.885	516.22	ppb	3.885	0.75%
Co 228.616†	17701.0	528.84	µg/L	5.292	528.84	ppb	5.292	1.00%
Cr 267.716†	22875.3	491.09	µg/L	2.938	491.09	ppb	2.938	0.60%
Cu 324.752†	97127.2	511.84	µg/L	3.797	511.84	ppb	3.797	0.74%
Fe 238.204 Radial†	5130.7	5519.9	µg/L	33.65	5519.9	ppb	33.65	0.61%
K 766.490 Radial†	6313.3	5479.3	µg/L	41.57	5479.3	ppb	41.57	0.76%
Mg 279.077 IEC†	708.7	5563.9	µg/L	38.44	5563.9	ppb	38.44	0.69%
Mn 257.610†	298041.1	492.00	µg/L	4.080	492.00	ppb	4.080	0.83%
Mo 202.031†	4082.6	483.33	µg/L	1.842	483.33	ppb	1.842	0.38%
Na 589.592 Radial†	1006.1	5944.9	µg/L	48.65	5944.9	ppb	48.65	0.82%

Ni 231.604†	12562.7	471.10 µg/L	1.989	471.10 ppb	1.989	0.42%
P 214.914†	549.8	505.38 µg/L	13.250	505.38 ppb	13.250	2.62%
Pb 220.353†	2688.5	530.39 µg/L	2.755	530.39 ppb	2.755	0.52%
S 181.975 Axial†	1638.1	4495.2 µg/L	27.42	4495.2 ppb	27.42	0.61%
Sb 206.836†	893.7	468.68 µg/L	1.337	468.68 ppb	1.337	0.29%
Se 196.026†	236.4	460.48 µg/L	11.938	460.48 ppb	11.938	2.59%
SiO2†	77808.2	9894.8 µg/L	82.56	9894.8 ppb	82.56	0.83%
Si 251.611†	80980.3	4569.1 µg/L	39.96	4569.1 ppb	39.96	0.87%
Sn 189.927†	1553.1	478.52 µg/L	2.907	478.52 ppb	2.907	0.61%
Sr 421.552†	38776.1	569.68 µg/L	1.806	569.68 ppb	1.806	0.32%
Ti 334.940†	182830.2	500.07 µg/L	3.925	500.07 ppb	3.925	0.78%
Tl 190.801†	960.8	483.39 µg/L	1.267	483.39 ppb	1.267	0.26%
U 367.007†	1511.6	474.9 µg/L	14.17	474.9 ppb	14.17	2.98%
V 292.402†	48641.8	499.51 µg/L	3.831	499.51 ppb	3.831	0.77%
Zn 213.857†	35090.3	473.15 µg/L	3.575	473.15 ppb	3.575	0.76%

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Sequence No.: 3 **Autosampler Location: 303**
Sample ID: 335304001|1339673|1 **Date Collected: 11/5/2013 12:36:18**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304001|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5866.7	5866.7	91.2	%			12:36:46
1	Al 396.153Radial†	-163.3	-3.8	-6.1883	µg/L	-6.1883	ppb	12:36:46
1	Ca 317.933Radial†	110719.5	121383.1	116820	µg/L	116820	ppb	12:36:46
1	Fe 238.204 Radial†	7051.1	7693.1	8269.1	µg/L	8269.1	ppb	12:36:46
1	K 766.490 Radial†	17767.4	18824.5	16295	µg/L	16295	ppb	12:36:46
1	Mg 279.077 IEC†	7334.6	8035.8	63088	µg/L	63088	ppb	12:36:46
1	Na 589.592 Radial†	19676.3	21762.7	128600	µg/L	128600	ppb	12:36:46
1	Sr 421.552†	53882.7	59981.2	880.68	µg/L	880.68	ppb	12:36:46
1	Sc 361.383	507896.0	507896.0	89.597	%			12:37:03
1	Y 371.029	450348.6	450348.6	86.475	%			12:37:03
1	Ag 328.068†	-738.7	-577.6	-0.4767	µg/L	-0.4767	ppb	12:37:03
1	As 188.979†	-3.7	8.2	7.6530	µg/L	7.6530	ppb	12:37:23
1	B 249.677†	17361.3	19151.2	634.86	µg/L	634.86	ppb	12:37:03
1	Ba 233.527†	50814.4	56768.7	602.26	µg/L	602.26	ppb	12:37:03
1	Be 313.107†	-7184.8	-2510.8	-0.1058	µg/L	-0.1058	ppb	12:37:03
1	Cd 226.502†	-119.7	24.8	-0.4051	µg/L	-0.4051	ppb	12:37:23
1	Co 228.616†	-11.9	102.1	3.4041	µg/L	3.4041	ppb	12:37:23
1	Cr 267.716†	511.7	490.1	12.209	µg/L	12.209	ppb	12:37:23
1	Cu 324.752†	2325.9	241.1	1.6834	µg/L	1.6834	ppb	12:37:03
1	Mn 257.610†	93093.7	103507.8	169.22	µg/L	169.22	ppb	12:37:03
1	Mo 202.031†	5.0	-5.7	-0.3291	µg/L	-0.3291	ppb	12:37:23
1	Ni 231.604†	653.5	842.6	31.845	µg/L	31.845	ppb	12:37:23
1	P 214.914†	179.9	146.4	131.72	µg/L	131.72	ppb	12:37:23
1	Pb 220.353†	86.5	-74.3	-6.8751	µg/L	-6.8751	ppb	12:37:23
1	S 181.975 Axial†	3611.9	3979.0	10896	µg/L	10896	ppb	12:37:23
1	Sb 206.836†	58.6	1.7	0.1900	µg/L	0.1900	ppb	12:37:23
1	Se 196.026†	-62.6	-19.6	-28.426	µg/L	-28.426	ppb	12:37:23
1	SiO2†	196691.3	218340.1	27644	µg/L	27644	ppb	12:37:03
1	Si 251.611†	203688.2	227041.9	12813	µg/L	12813	ppb	12:37:03
1	Sn 189.927†	-185.5	-230.1	-38.015	µg/L	-38.015	ppb	12:37:23
1	Ti 334.940†	-1586.1	-1284.3	0.4718	µg/L	0.4718	ppb	12:37:03
1	Tl 190.801†	-33.3	-11.0	-5.3516	µg/L	-5.3516	ppb	12:37:23
1	U 367.007†	681.7	223.1	9.662	µg/L	9.662	ppb	12:37:03
1	V 292.402†	1029.6	1073.2	10.983	µg/L	10.983	ppb	12:37:03
1	Zn 213.857†	1269.0	705.2	7.1917	µg/L	7.1917	ppb	12:37:23
2	Sc RADIAL	5881.4	5881.4	91.4	%			12:36:51
2	Al 396.153Radial†	-122.7	41.1	40.751	µg/L	40.751	ppb	12:36:51
2	Ca 317.933Radial†	111477.6	121907.1	117330	µg/L	117330	ppb	12:36:51
2	Fe 238.204 Radial†	7091.3	7717.7	8295.4	µg/L	8295.4	ppb	12:36:51
2	K 766.490 Radial†	17915.4	18937.4	16394	µg/L	16394	ppb	12:36:51
2	Mg 279.077 IEC†	7420.7	8109.8	63670	µg/L	63670	ppb	12:36:51
2	Na 589.592 Radial†	19609.3	21635.2	127840	µg/L	127840	ppb	12:36:51
2	Sr 421.552†	54233.5	60216.3	884.13	µg/L	884.13	ppb	12:36:51
2	Sc 361.383	513626.1	513626.1	90.608	%			12:37:29
2	Y 371.029	455068.2	455068.2	87.381	%			12:37:29
2	Ag 328.068†	-692.3	-517.2	-0.0489	µg/L	-0.0489	ppb	12:37:29
2	As 188.979†	-3.7	8.3	7.7049	µg/L	7.7049	ppb	12:37:49
2	B 249.677†	17475.3	19060.8	631.78	µg/L	631.78	ppb	12:37:29
2	Ba 233.527†	51052.5	56398.8	598.34	µg/L	598.34	ppb	12:37:29
2	Be 313.107†	-7203.1	-2441.5	-0.0618	µg/L	-0.0618	ppb	12:37:29
2	Cd 226.502†	-99.6	48.5	-0.0250	µg/L	-0.0250	ppb	12:37:49
2	Co 228.616†	-20.1	93.2	3.1371	µg/L	3.1371	ppb	12:37:49
2	Cr 267.716†	531.5	505.6	12.553	µg/L	12.553	ppb	12:37:49
2	Cu 324.752†	2200.1	73.3	0.8051	µg/L	0.8051	ppb	12:37:29
2	Mn 257.610†	93632.2	102942.8	168.27	µg/L	168.27	ppb	12:37:29
2	Mo 202.031†	11.4	1.3	0.5017	µg/L	0.5017	ppb	12:37:49
2	Ni 231.604†	613.4	790.3	29.882	µg/L	29.882	ppb	12:37:49
2	P 214.914†	165.9	128.8	115.03	µg/L	115.03	ppb	12:37:49
2	Pb 220.353†	85.7	-76.2	-7.2545	µg/L	-7.2545	ppb	12:37:49

2	S 181.975 Axial†	3623.1	3946.4	10807	µg/L	10807	ppb	12:37:49
2	Sb 206.836†	67.6	10.9	5.0400	µg/L	5.0400	ppb	12:37:49
2	Se 196.026†	-48.1	-2.8	3.5813	µg/L	3.5813	ppb	12:37:49
2	SiO2†	198736.8	218148.5	27617	µg/L	27617	ppb	12:37:29
2	Si 251.611†	205479.4	226482.6	12779	µg/L	12779	ppb	12:37:29
2	Sn 189.927†	-189.6	-232.3	-38.587	µg/L	-38.587	ppb	12:37:49
2	Ti 334.940†	-1649.6	-1334.6	0.3452	µg/L	0.3452	ppb	12:37:29
2	Tl 190.801†	-38.9	-16.7	-8.2422	µg/L	-8.2422	ppb	12:37:49
2	U 367.007†	710.0	245.9	17.02	µg/L	17.02	ppb	12:37:29
2	V 292.402†	1044.0	1076.3	11.030	µg/L	11.030	ppb	12:37:29
2	Zn 213.857†	1291.6	714.3	7.3177	µg/L	7.3177	ppb	12:37:49
3	Sc RADIAL	5801.9	5801.9	90.2	%			12:36:56
3	Al 396.153Radial†	-110.8	52.4	52.559	µg/L	52.559	ppb	12:36:56
3	Ca 317.933Radial†	110644.0	122654.7	118040	µg/L	118040	ppb	12:36:56
3	Fe 238.204 Radial†	7022.2	7747.4	8327.4	µg/L	8327.4	ppb	12:36:56
3	K 766.490 Radial†	17871.0	19156.9	16583	µg/L	16583	ppb	12:36:56
3	Mg 279.077 IEC†	7352.4	8145.3	63949	µg/L	63949	ppb	12:36:56
3	Na 589.592 Radial†	19815.1	22157.5	130930	µg/L	130930	ppb	12:36:56
3	Sr 421.552†	54130.3	60915.3	894.40	µg/L	894.40	ppb	12:36:56
3	Sc 361.383	512505.8	512505.8	90.410	%			12:37:54
3	Y 371.029	453976.9	453976.9	87.172	%			12:37:54
3	Ag 328.068†	-673.3	-497.9	0.0950	µg/L	0.0950	ppb	12:37:54
3	As 188.979†	2.0	14.6	12.934	µg/L	12.934	ppb	12:38:14
3	B 249.677†	17524.9	19157.9	634.94	µg/L	634.94	ppb	12:37:54
3	Ba 233.527†	51058.5	56528.6	599.71	µg/L	599.71	ppb	12:37:54
3	Be 313.107†	-7218.6	-2476.0	-0.0768	µg/L	-0.0768	ppb	12:37:54
3	Cd 226.502†	-110.4	36.4	-0.2246	µg/L	-0.2246	ppb	12:38:14
3	Co 228.616†	-15.8	97.9	3.2799	µg/L	3.2799	ppb	12:38:14
3	Cr 267.716†	539.3	515.5	12.785	µg/L	12.785	ppb	12:38:14
3	Cu 324.752†	2250.0	133.9	1.1133	µg/L	1.1133	ppb	12:37:54
3	Mn 257.610†	93641.7	103179.2	168.66	µg/L	168.66	ppb	12:37:54
3	Mo 202.031†	12.9	3.0	0.6999	µg/L	0.6999	ppb	12:38:14
3	Ni 231.604†	621.9	801.2	30.291	µg/L	30.291	ppb	12:38:14
3	P 214.914†	173.1	137.1	122.92	µg/L	122.92	ppb	12:38:14
3	Pb 220.353†	79.4	-83.0	-8.5436	µg/L	-8.5436	ppb	12:38:14
3	S 181.975 Axial†	3621.8	3953.8	10827	µg/L	10827	ppb	12:38:14
3	Sb 206.836†	60.6	3.3	1.0226	µg/L	1.0226	ppb	12:38:14
3	Se 196.026†	-46.2	-0.8	7.3487	µg/L	7.3487	ppb	12:38:14
3	SiO2†	198622.8	218501.9	27658	µg/L	27658	ppb	12:37:54
3	Si 251.611†	205761.8	227290.6	12824	µg/L	12824	ppb	12:37:54
3	Sn 189.927†	-185.3	-228.1	-37.068	µg/L	-37.068	ppb	12:38:14
3	Ti 334.940†	-1642.6	-1330.9	0.3902	µg/L	0.3902	ppb	12:37:54
3	Tl 190.801†	-39.0	-16.9	-8.3597	µg/L	-8.3597	ppb	12:38:14
3	U 367.007†	654.9	186.7	-2.989	µg/L	-2.989	ppb	12:37:54
3	V 292.402†	981.6	1009.9	10.345	µg/L	10.345	ppb	12:37:54
3	Zn 213.857†	1291.5	717.3	7.3451	µg/L	7.3451	ppb	12:38:14

Mean Data: 335304001|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	511342.6	90.205	%	0.5357				0.59%
Sc RADIAL	5850.0	90.9	%	0.66				0.72%
Y 371.029	453131.2	87.009	%	0.4744				0.55%
Ag 328.068†	-530.9	-0.1435	µg/L	0.29737	-0.1435	ppb	0.29737	207.20%
Al 396.153Radial†	29.9	29.041	µg/L	31.0752	29.041	ppb	31.0752	107.01%
As 188.979†	10.3	9.4306	µg/L	3.03408	9.4306	ppb	3.03408	32.17%
B 249.677†	19123.3	633.86	µg/L	1.805	633.86	ppb	1.805	0.28%
Ba 233.527†	56565.3	600.10	µg/L	1.992	600.10	ppb	1.992	0.33%
Be 313.107†	-2476.1	-0.0815	µg/L	0.02236	-0.0815	ppb	0.02236	27.45%
Ca 317.933Radial†	121981.6	117400	µg/L	615.0	117400	ppb	615.0	0.52%
Cd 226.502†	36.6	-0.2182	µg/L	0.19012	-0.2182	ppb	0.19012	87.12%
Co 228.616†	97.7	3.2737	µg/L	0.13361	3.2737	ppb	0.13361	4.08%
Cr 267.716†	503.7	12.516	µg/L	0.2896	12.516	ppb	0.2896	2.31%
Cu 324.752†	149.4	1.2006	µg/L	0.44560	1.2006	ppb	0.44560	37.12%
Fe 238.204 Radial†	7719.4	8297.3	µg/L	29.22	8297.3	ppb	29.22	0.35%
K 766.490 Radial†	18972.9	16424	µg/L	146.3	16424	ppb	146.3	0.89%
Mg 279.077 IEC†	8097.0	63569	µg/L	438.9	63569	ppb	438.9	0.69%
Mn 257.610†	103209.9	168.72	µg/L	0.478	168.72	ppb	0.478	0.28%
Mo 202.031†	-0.5	0.2908	µg/L	0.54597	0.2908	ppb	0.54597	187.73%
Na 589.592 Radial†	21851.8	129120	µg/L	1609.2	129120	ppb	1609.2	1.25%

Ni 231.604†	811.4	30.673	µg/L	1.0357	30.673	ppb	1.0357	3.38%
P 214.914†	137.4	123.22	µg/L	8.351	123.22	ppb	8.351	6.78%
Pb 220.353†	-77.8	-7.5577	µg/L	0.87461	-7.5577	ppb	0.87461	11.57%
S 181.975 Axial†	3959.7	10843	µg/L	46.9	10843	ppb	46.9	0.43%
Sb 206.836†	5.3	2.0842	µg/L	2.59344	2.0842	ppb	2.59344	124.43%
Se 196.026†	-7.7	-5.8321	µg/L	19.65774	-5.8321	ppb	19.65774	337.06%
SiO2†	218330.2	27639	µg/L	20.7	27639	ppb	20.7	0.07%
Si 251.611†	226938.4	12805	µg/L	23.0	12805	ppb	23.0	0.18%
Sn 189.927†	-230.2	-37.890	µg/L	0.7671	-37.890	ppb	0.7671	2.02%
Sr 421.552†	60370.9	886.41	µg/L	7.136	886.41	ppb	7.136	0.81%
Ti 334.940†	-1316.6	0.4024	µg/L	0.06418	0.4024	ppb	0.06418	15.95%
Tl 190.801†	-14.9	-7.3178	µg/L	1.70383	-7.3178	ppb	1.70383	23.28%
U 367.007†	218.6	7.898	µg/L	10.1205	7.898	ppb	10.1205	128.14%
V 292.402†	1053.1	10.786	µg/L	0.3829	10.786	ppb	0.3829	3.55%
Zn 213.857†	712.2	7.2849	µg/L	0.08182	7.2849	ppb	0.08182	1.12%

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Sequence No.: 4 **Autosampler Location: 304**
Sample ID: 1202969091|1339673|1 **Date Collected: 11/5/2013 12:38:22**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969091|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5808.3	5808.3	90.3	%			12:38:50
1	Al 396.153Radial†	-104.3	59.8	60.200	µg/L	60.200	ppb	12:38:50
1	Ca 317.933Radial†	108979.0	120674.9	116140	µg/L	116140	ppb	12:38:50
1	Fe 238.204 Radial†	7009.0	7724.3	8302.6	µg/L	8302.6	ppb	12:38:50
1	K 766.490 Radial†	17380.8	18592.0	16093	µg/L	16093	ppb	12:38:50
1	Mg 279.077 IEC†	7324.8	8105.8	63638	µg/L	63638	ppb	12:38:50
1	Na 589.592 Radial†	19482.1	21764.4	128610	µg/L	128610	ppb	12:38:50
1	Sr 421.552†	53588.0	60248.4	884.61	µg/L	884.61	ppb	12:38:50
1	Sc 361.383	512415.7	512415.7	90.394	%			12:39:07
1	Y 371.029	453768.5	453768.5	87.132	%			12:39:07
1	Ag 328.068†	-587.5	-403.1	0.7274	µg/L	0.7274	ppb	12:39:07
1	As 188.979†	-1.9	10.3	9.3667	µg/L	9.3667	ppb	12:39:27
1	B 249.677†	17364.8	18984.1	629.34	µg/L	629.34	ppb	12:39:07
1	Ba 233.527†	50748.3	56195.3	596.18	µg/L	596.18	ppb	12:39:07
1	Be 313.107†	-7262.7	-2526.2	-0.1205	µg/L	-0.1205	ppb	12:39:07
1	Cd 226.502†	-114.6	31.7	-0.2979	µg/L	-0.2979	ppb	12:39:27
1	Co 228.616†	-12.9	101.1	3.3760	µg/L	3.3760	ppb	12:39:27
1	Cr 267.716†	529.1	504.3	12.529	µg/L	12.529	ppb	12:39:27
1	Cu 324.752†	1988.4	-155.1	-0.4017	µg/L	-0.4017	ppb	12:39:07
1	Mn 257.610†	92901.6	102378.7	167.34	µg/L	167.34	ppb	12:39:07
1	Mo 202.031†	23.3	14.4	2.0544	µg/L	2.0544	ppb	12:39:27
1	Ni 231.604†	642.4	824.0	31.146	µg/L	31.146	ppb	12:39:27
1	P 214.914†	187.9	153.5	138.44	µg/L	138.44	ppb	12:39:27
1	Pb 220.353†	89.5	-71.8	-6.4601	µg/L	-6.4601	ppb	12:39:27
1	S 181.975 Axial†	3599.3	3929.5	10761	µg/L	10761	ppb	12:39:27
1	Sb 206.836†	63.0	6.0	2.4969	µg/L	2.4969	ppb	12:39:27
1	Se 196.026†	-61.5	-17.8	-24.906	µg/L	-24.906	ppb	12:39:27
1	SiO2†	196806.6	216531.4	27416	µg/L	27416	ppb	12:39:07
1	Si 251.611†	203623.2	224964.8	12696	µg/L	12696	ppb	12:39:07
1	Sn 189.927†	-183.0	-225.5	-36.863	µg/L	-36.863	ppb	12:39:27
1	Ti 334.940†	-1636.8	-1324.8	0.3282	µg/L	0.3282	ppb	12:39:07
1	Tl 190.801†	-30.5	-7.6	-3.6696	µg/L	-3.6696	ppb	12:39:27
1	U 367.007†	696.1	232.4	12.71	µg/L	12.71	ppb	12:39:07
1	V 292.402†	1082.3	1121.4	11.501	µg/L	11.501	ppb	12:39:07
1	Zn 213.857†	1137.6	547.2	5.0503	µg/L	5.0503	ppb	12:39:27
2	Sc RADIAL	5853.8	5853.8	91.0	%			12:38:55
2	Al 396.153Radial†	-118.3	45.3	45.243	µg/L	45.243	ppb	12:38:55
2	Ca 317.933Radial†	109693.0	120521.6	115990	µg/L	115990	ppb	12:38:55
2	Fe 238.204 Radial†	7068.9	7729.7	8308.4	µg/L	8308.4	ppb	12:38:55
2	K 766.490 Radial†	17526.1	18602.1	16102	µg/L	16102	ppb	12:38:55
2	Mg 279.077 IEC†	7376.8	8099.9	63592	µg/L	63592	ppb	12:38:55
2	Na 589.592 Radial†	19526.6	21645.6	127900	µg/L	127900	ppb	12:38:55
2	Sr 421.552†	53841.4	60065.7	881.93	µg/L	881.93	ppb	12:38:55
2	Sc 361.383	513061.1	513061.1	90.508	%			12:39:33
2	Y 371.029	454055.5	454055.5	87.187	%			12:39:33
2	Ag 328.068†	-631.6	-451.0	0.3952	µg/L	0.3952	ppb	12:39:33
2	As 188.979†	1.6	14.1	12.592	µg/L	12.592	ppb	12:39:53
2	B 249.677†	17479.4	19086.6	632.78	µg/L	632.78	ppb	12:39:33
2	Ba 233.527†	51009.4	56413.2	598.49	µg/L	598.49	ppb	12:39:33
2	Be 313.107†	-7267.5	-2521.4	-0.1141	µg/L	-0.1141	ppb	12:39:33
2	Cd 226.502†	-118.9	27.1	-0.3723	µg/L	-0.3723	ppb	12:39:53
2	Co 228.616†	-37.1	74.4	2.5724	µg/L	2.5724	ppb	12:39:53
2	Cr 267.716†	525.3	499.4	12.407	µg/L	12.407	ppb	12:39:53
2	Cu 324.752†	1847.1	-313.9	-1.2197	µg/L	-1.2197	ppb	12:39:33
2	Mn 257.610†	93320.8	102712.7	167.90	µg/L	167.90	ppb	12:39:33
2	Mo 202.031†	-4.0	-15.7	-1.5135	µg/L	-1.5135	ppb	12:39:53
2	Ni 231.604†	649.1	830.5	31.392	µg/L	31.392	ppb	12:39:53
2	P 214.914†	164.5	127.4	113.78	µg/L	113.78	ppb	12:39:53
2	Pb 220.353†	92.3	-68.8	-5.8930	µg/L	-5.8930	ppb	12:39:53

2	S 181.975 Axial†	3616.2	3943.2	10798	µg/L	10798	ppb	12:39:53
2	Sb 206.836†	70.5	14.1	6.7549	µg/L	6.7549	ppb	12:39:53
2	Se 196.026†	-52.2	-7.4	-5.0723	µg/L	-5.0723	ppb	12:39:53
2	SiO2†	197880.1	217443.6	27533	µg/L	27533	ppb	12:39:33
2	Si 251.611†	204948.4	226145.7	12763	µg/L	12763	ppb	12:39:33
2	Sn 189.927†	-185.8	-228.3	-37.782	µg/L	-37.782	ppb	12:39:53
2	Ti 334.940†	-1703.2	-1395.8	0.1162	µg/L	0.1162	ppb	12:39:33
2	Tl 190.801†	-33.3	-10.7	-5.1738	µg/L	-5.1738	ppb	12:39:53
2	U 367.007†	767.8	310.7	38.74	µg/L	38.74	ppb	12:39:33
2	V 292.402†	1043.0	1076.5	11.027	µg/L	11.027	ppb	12:39:33
2	Zn 213.857†	1138.2	546.4	5.0386	µg/L	5.0386	ppb	12:39:53
3	Sc RADIAL	5838.9	5838.9	90.7	%			12:39:00
3	Al 396.153Radial†	-123.2	39.6	39.183	µg/L	39.183	ppb	12:39:00
3	Ca 317.933Radial†	109285.3	120379.1	115850	µg/L	115850	ppb	12:39:00
3	Fe 238.204 Radial†	7037.0	7714.4	8291.9	µg/L	8291.9	ppb	12:39:00
3	K 766.490 Radial†	17439.4	18555.5	16061	µg/L	16061	ppb	12:39:00
3	Mg 279.077 IEC†	7314.7	8052.0	63216	µg/L	63216	ppb	12:39:00
3	Na 589.592 Radial†	19714.4	21907.2	129450	µg/L	129450	ppb	12:39:00
3	Sr 421.552†	53830.6	60204.3	883.97	µg/L	883.97	ppb	12:39:00
3	Sc 361.383	513756.2	513756.2	90.631	%			12:39:58
3	Y 371.029	454623.6	454623.6	87.296	%			12:39:58
3	Ag 328.068†	-682.8	-506.5	0.0050	µg/L	0.0050	ppb	12:39:58
3	As 188.979†	-4.0	7.9	7.4256	µg/L	7.4256	ppb	12:40:18
3	B 249.677†	17384.0	18955.2	628.39	µg/L	628.39	ppb	12:39:58
3	Ba 233.527†	50862.2	56174.5	595.96	µg/L	595.96	ppb	12:39:58
3	Be 313.107†	-7307.5	-2554.7	-0.1379	µg/L	-0.1379	ppb	12:39:58
3	Cd 226.502†	-111.2	35.7	-0.2318	µg/L	-0.2318	ppb	12:40:18
3	Co 228.616†	-23.1	89.9	3.0360	µg/L	3.0360	ppb	12:40:18
3	Cr 267.716†	543.3	518.5	12.820	µg/L	12.820	ppb	12:40:18
3	Cu 324.752†	1878.4	-282.2	-1.0681	µg/L	-1.0681	ppb	12:39:58
3	Mn 257.610†	93379.2	102637.5	167.78	µg/L	167.78	ppb	12:39:58
3	Mo 202.031†	10.5	0.2	0.3737	µg/L	0.3737	ppb	12:40:18
3	Ni 231.604†	636.0	815.0	30.808	µg/L	30.808	ppb	12:40:18
3	P 214.914†	165.2	127.9	114.28	µg/L	114.28	ppb	12:40:18
3	Pb 220.353†	94.8	-66.2	-5.3834	µg/L	-5.3834	ppb	12:40:18
3	S 181.975 Axial†	3645.6	3970.2	10872	µg/L	10872	ppb	12:40:18
3	Sb 206.836†	69.7	13.1	6.2340	µg/L	6.2340	ppb	12:40:18
3	Se 196.026†	-48.8	-3.5	2.1204	µg/L	2.1204	ppb	12:40:18
3	SiO2†	197899.5	217169.1	27499	µg/L	27499	ppb	12:39:58
3	Si 251.611†	204828.2	225706.6	12739	µg/L	12739	ppb	12:39:58
3	Sn 189.927†	-196.7	-240.1	-41.404	µg/L	-41.404	ppb	12:40:18
3	Ti 334.940†	-1618.3	-1299.6	0.3877	µg/L	0.3877	ppb	12:39:58
3	Tl 190.801†	-37.9	-15.6	-7.6633	µg/L	-7.6633	ppb	12:40:18
3	U 367.007†	707.3	242.7	16.24	µg/L	16.24	ppb	12:39:58
3	V 292.402†	1002.4	1030.1	10.562	µg/L	10.562	ppb	12:39:58
3	Zn 213.857†	1142.1	548.9	5.0827	µg/L	5.0827	ppb	12:40:18

Mean Data: 1202969091|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	513077.7	90.511	%	0.1183				0.13%
Sc RADIAL	5833.7	90.7	%	0.36				0.40%
Y 371.029	454149.2	87.205	%	0.0836				0.10%
Ag 328.068†	-453.5	0.3758	µg/L	0.36160	0.3758	ppb	0.36160	96.21%
Al 396.153Radial†	48.2	48.209	µg/L	10.8179	48.209	ppb	10.8179	22.44%
As 188.979†	10.8	9.7949	µg/L	2.60982	9.7949	ppb	2.60982	26.64%
B 249.677†	19008.6	630.17	µg/L	2.313	630.17	ppb	2.313	0.37%
Ba 233.527†	56261.0	596.87	µg/L	1.403	596.87	ppb	1.403	0.24%
Be 313.107†	-2534.1	-0.1241	µg/L	0.01233	-0.1241	ppb	0.01233	9.93%
Ca 317.933Radial†	120525.2	116000	µg/L	142.3	116000	ppb	142.3	0.12%
Cd 226.502†	31.5	-0.3007	µg/L	0.07030	-0.3007	ppb	0.07030	23.38%
Co 228.616†	88.5	2.9948	µg/L	0.40338	2.9948	ppb	0.40338	13.47%
Cr 267.716†	507.4	12.585	µg/L	0.2120	12.585	ppb	0.2120	1.68%
Cu 324.752†	-250.4	-0.8965	µg/L	0.43513	-0.8965	ppb	0.43513	48.54%
Fe 238.204 Radial†	7722.8	8300.9	µg/L	8.37	8300.9	ppb	8.37	0.10%
K 766.490 Radial†	18583.2	16086	µg/L	21.6	16086	ppb	21.6	0.13%
Mg 279.077 IEC†	8085.9	63482	µg/L	231.4	63482	ppb	231.4	0.36%
Mn 257.610†	102576.3	167.68	µg/L	0.292	167.68	ppb	0.292	0.17%
Mo 202.031†	-0.3	0.3048	µg/L	1.78491	0.3048	ppb	1.78491	585.53%
Na 589.592 Radial†	21772.4	128650	µg/L	773.9	128650	ppb	773.9	0.60%

Ni 231.604†	823.2	31.115	µg/L	0.2929	31.115	ppb	0.2929	0.94%
P 214.914†	136.3	122.17	µg/L	14.096	122.17	ppb	14.096	11.54%
Pb 220.353†	-68.9	-5.9122	µg/L	0.53859	-5.9122	ppb	0.53859	9.11%
S 181.975 Axial†	3947.7	10810	µg/L	56.8	10810	ppb	56.8	0.53%
Sb 206.836†	11.1	5.1620	µg/L	2.32261	5.1620	ppb	2.32261	44.99%
Se 196.026†	-9.6	-9.2862	µg/L	13.99749	-9.2862	ppb	13.99749	150.74%
SiO2†	217048.0	27483	µg/L	60.1	27483	ppb	60.1	0.22%
Si 251.611†	225605.7	12733	µg/L	34.2	12733	ppb	34.2	0.27%
Sn 189.927†	-231.3	-38.683	µg/L	2.4007	-38.683	ppb	2.4007	6.21%
Sr 421.552†	60172.8	883.50	µg/L	1.401	883.50	ppb	1.401	0.16%
Ti 334.940†	-1340.1	0.2774	µg/L	0.14272	0.2774	ppb	0.14272	51.45%
Tl 190.801†	-11.3	-5.5022	µg/L	2.01703	-5.5022	ppb	2.01703	36.66%
U 367.007†	262.0	22.56	µg/L	14.120	22.56	ppb	14.120	62.58%
V 292.402†	1076.0	11.030	µg/L	0.4700	11.030	ppb	0.4700	4.26%
Zn 213.857†	547.5	5.0572	µg/L	0.02283	5.0572	ppb	0.02283	0.45%

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Sequence No.: 5 **Autosampler Location: 305**
Sample ID: 1202969092|1339673|1 **Date Collected: 11/5/2013 12:40:26**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969092|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6006.2	6006.2	93.3	%			12:40:59
1	Al 396.153Radial†	4570.7	5071.7	5253.9	µg/L	5253.9	ppb	12:40:59
1	Ca 317.933Radial†	118800.6	127219.7	122440	µg/L	122440	ppb	12:40:59
1	Fe 238.204 Radial†	11812.5	12614.3	13564	µg/L	13564	ppb	12:40:59
1	K 766.490 Radial†	24025.0	25075.4	21721	µg/L	21721	ppb	12:40:59
1	Mg 279.077 IEC†	8210.0	8786.8	68984	µg/L	68984	ppb	12:40:59
1	Na 589.592 Radial†	21143.4	22833.2	134920	µg/L	134920	ppb	12:40:59
1	Sr 421.552†	88944.0	96168.5	1412.3	µg/L	1412.3	ppb	12:40:54
1	Sc 361.383	525649.4	525649.4	92.729	%			12:41:26
1	Y 371.029	464486.9	464486.9	89.190	%			12:41:26
1	Ag 328.068†	71435.5	77284.0	538.95	µg/L	538.95	ppb	12:41:32
1	As 188.979†	591.4	650.2	541.65	µg/L	541.65	ppb	12:41:52
1	B 249.677†	32649.4	34983.7	1163.0	µg/L	1163.0	ppb	12:41:32
1	Ba 233.527†	97313.2	104998.3	1114.6	µg/L	1114.6	ppb	12:41:32
1	Be 313.107†	916196.4	993549.2	533.15	µg/L	533.15	ppb	12:41:26
1	Cd 226.502†	28886.0	31309.6	505.23	µg/L	505.23	ppb	12:41:32
1	Co 228.616†	15762.0	17113.4	511.62	µg/L	511.62	ppb	12:41:32
1	Cr 267.716†	21048.8	22618.4	487.30	µg/L	487.30	ppb	12:41:32
1	Cu 324.752†	93761.1	98758.7	520.83	µg/L	520.83	ppb	12:41:32
1	Mn 257.610†	351469.4	378635.0	623.39	µg/L	623.39	ppb	12:41:32
1	Mo 202.031†	3758.8	4042.3	478.89	µg/L	478.89	ppb	12:41:52
1	Ni 231.604†	11438.8	12449.1	467.07	µg/L	467.07	ppb	12:41:52
1	P 214.914†	691.3	691.2	632.42	µg/L	632.42	ppb	12:41:52
1	Pb 220.353†	2442.0	2462.7	493.72	µg/L	493.72	ppb	12:41:52
1	S 181.975 Axial†	5242.3	5601.1	15347	µg/L	15347	ppb	12:41:52
1	Sb 206.836†	885.2	890.9	466.78	µg/L	466.78	ppb	12:41:52
1	Se 196.026†	156.2	218.8	435.51	µg/L	435.51	ppb	12:41:52
1	SiO2†	271747.0	291866.9	36989	µg/L	36989	ppb	12:41:32
1	Si 251.611†	282136.1	303963.2	17150	µg/L	17150	ppb	12:41:32
1	Sn 189.927†	1192.5	1262.9	422.18	µg/L	422.18	ppb	12:41:52
1	Ti 334.940†	166483.6	180024.6	496.40	µg/L	496.40	ppb	12:41:32
1	Tl 190.801†	801.8	890.9	448.49	µg/L	448.49	ppb	12:41:52
1	U 367.007†	2080.4	1705.9	476.0	µg/L	476.0	ppb	12:41:32
1	V 292.402†	45983.0	49513.0	508.35	µg/L	508.35	ppb	12:41:32
1	Zn 213.857†	32706.6	34560.1	463.79	µg/L	463.79	ppb	12:41:32
2	Sc RADIAL	6044.5	6044.5	93.9	%			12:41:09
2	Al 396.153Radial†	4552.5	5021.3	5202.1	µg/L	5202.1	ppb	12:41:09
2	Ca 317.933Radial†	119324.2	126969.6	122200	µg/L	122200	ppb	12:41:09
2	Fe 238.204 Radial†	11862.0	12586.7	13534	µg/L	13534	ppb	12:41:09
2	K 766.490 Radial†	24207.5	25106.4	21747	µg/L	21747	ppb	12:41:09
2	Mg 279.077 IEC†	8218.5	8740.0	68618	µg/L	68618	ppb	12:41:09
2	Na 589.592 Radial†	21677.5	23258.0	137430	µg/L	137430	ppb	12:41:09
2	Sr 421.552†	89387.0	96035.5	1410.4	µg/L	1410.4	ppb	12:41:04
2	Sc 361.383	536914.6	536914.6	94.716	%			12:41:57
2	Y 371.029	474483.5	474483.5	91.109	%			12:41:57
2	Ag 328.068†	71604.7	75846.4	529.00	µg/L	529.00	ppb	12:42:02
2	As 188.979†	591.0	636.3	530.12	µg/L	530.12	ppb	12:42:22
2	B 249.677†	32836.3	34442.3	1144.8	µg/L	1144.8	ppb	12:42:02
2	Ba 233.527†	97356.1	102841.7	1091.7	µg/L	1091.7	ppb	12:42:02
2	Be 313.107†	912445.1	968858.2	519.93	µg/L	519.93	ppb	12:41:57
2	Cd 226.502†	28896.1	30666.6	494.83	µg/L	494.83	ppb	12:42:02
2	Co 228.616†	15781.2	16777.0	501.56	µg/L	501.56	ppb	12:42:02
2	Cr 267.716†	21063.3	22157.4	477.40	µg/L	477.40	ppb	12:42:02
2	Cu 324.752†	93924.4	96809.6	510.56	µg/L	510.56	ppb	12:42:02
2	Mn 257.610†	351839.2	371072.8	610.93	µg/L	610.93	ppb	12:42:02
2	Mo 202.031†	3761.8	3960.3	469.19	µg/L	469.19	ppb	12:42:22
2	Ni 231.604†	11505.0	12260.2	459.99	µg/L	459.99	ppb	12:42:22
2	P 214.914†	707.8	693.0	634.34	µg/L	634.34	ppb	12:42:22
2	Pb 220.353†	2473.6	2440.8	489.35	µg/L	489.35	ppb	12:42:22

2	S 181.975 Axial†	5254.4	5495.3	15057	µg/L	15057	ppb	12:42:22
2	Sb 206.836†	874.3	859.4	450.21	µg/L	450.21	ppb	12:42:22
2	Se 196.026†	155.5	214.5	427.13	µg/L	427.13	ppb	12:42:22
2	SiO2†	271716.7	285686.2	36195	µg/L	36195	ppb	12:42:02
2	Si 251.611†	282439.5	297899.7	16803	µg/L	16803	ppb	12:42:02
2	Sn 189.927†	1205.9	1250.1	418.16	µg/L	418.16	ppb	12:42:22
2	Ti 334.940†	166432.3	176203.5	485.95	µg/L	485.95	ppb	12:42:02
2	Tl 190.801†	793.9	864.4	435.16	µg/L	435.16	ppb	12:42:22
2	U 367.007†	2075.6	1653.7	458.8	µg/L	458.8	ppb	12:42:02
2	V 292.402†	46011.4	48502.4	497.98	µg/L	497.98	ppb	12:42:02
2	Zn 213.857†	32744.1	33859.7	454.33	µg/L	454.33	ppb	12:42:02
3	Sc RADIAL	6031.5	6031.5	93.7	%			12:41:20
3	Al 396.153Radial†	4609.8	5092.8	5277.0	µg/L	5277.0	ppb	12:41:20
3	Ca 317.933Radial†	120621.0	128625.9	123790	µg/L	123790	ppb	12:41:20
3	Fe 238.204 Radial†	12028.1	12790.9	13753	µg/L	13753	ppb	12:41:20
3	K 766.490 Radial†	24495.7	25469.2	22062	µg/L	22062	ppb	12:41:20
3	Mg 279.077 IEC†	8373.0	8923.7	70059	µg/L	70059	ppb	12:41:20
3	Na 589.592 Radial†	21614.5	23240.4	137330	µg/L	137330	ppb	12:41:20
3	Sr 421.552†	88857.3	95674.9	1405.1	µg/L	1405.1	ppb	12:41:14
3	Sc 361.383	532670.6	532670.6	93.967	%			12:42:28
3	Y 371.029	470857.5	470857.5	90.413	%			12:42:28
3	Ag 328.068†	70841.1	75636.1	527.62	µg/L	527.62	ppb	12:42:33
3	As 188.979†	581.6	631.3	525.99	µg/L	525.99	ppb	12:42:53
3	B 249.677†	32408.1	34262.7	1138.6	µg/L	1138.6	ppb	12:42:33
3	Ba 233.527†	96167.6	102395.8	1087.0	µg/L	1087.0	ppb	12:42:33
3	Be 313.107†	913639.3	977804.6	524.74	µg/L	524.74	ppb	12:42:28
3	Cd 226.502†	28511.1	30499.9	492.11	µg/L	492.11	ppb	12:42:33
3	Co 228.616†	15545.0	16658.4	498.02	µg/L	498.02	ppb	12:42:33
3	Cr 267.716†	20903.1	22164.1	477.59	µg/L	477.59	ppb	12:42:33
3	Cu 324.752†	93019.8	96637.0	509.66	µg/L	509.66	ppb	12:42:33
3	Mn 257.610†	347616.2	369538.4	608.36	µg/L	608.36	ppb	12:42:33
3	Mo 202.031†	3748.5	3977.8	471.27	µg/L	471.27	ppb	12:42:53
3	Ni 231.604†	11447.1	12295.3	461.32	µg/L	461.32	ppb	12:42:53
3	P 214.914†	681.7	671.1	613.52	µg/L	613.52	ppb	12:42:53
3	Pb 220.353†	2455.5	2442.3	489.73	µg/L	489.73	ppb	12:42:53
3	S 181.975 Axial†	5235.7	5519.6	15124	µg/L	15124	ppb	12:42:53
3	Sb 206.836†	868.6	860.6	450.88	µg/L	450.88	ppb	12:42:53
3	Se 196.026†	156.3	216.6	431.43	µg/L	431.43	ppb	12:42:53
3	SiO2†	268301.1	284337.0	36014	µg/L	36014	ppb	12:42:33
3	Si 251.611†	278553.7	296140.3	16699	µg/L	16699	ppb	12:42:33
3	Sn 189.927†	1189.1	1242.4	416.19	µg/L	416.19	ppb	12:42:53
3	Ti 334.940†	164760.6	175824.5	484.96	µg/L	484.96	ppb	12:42:33
3	Tl 190.801†	791.1	868.1	437.01	µg/L	437.01	ppb	12:42:53
3	U 367.007†	2051.1	1645.1	454.5	µg/L	454.5	ppb	12:42:33
3	V 292.402†	45528.8	48375.9	496.72	µg/L	496.72	ppb	12:42:33
3	Zn 213.857†	32354.0	33720.0	452.38	µg/L	452.38	ppb	12:42:33

Mean Data: 1202969092|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	531744.9	93.804	%	1.0037				1.07%
Sc RADIAL	6027.4	93.7	%	0.30				0.32%
Y 371.029	469942.6	90.237	%	0.9717				1.08%
Ag 328.068†	76255.5	531.86	µg/L	6.181	531.86	ppb	6.181	1.16%
Al 396.153Radial†	5061.9	5244.3	µg/L	38.36	5244.3	ppb	38.36	0.73%
As 188.979†	639.3	532.59	µg/L	8.114	532.59	ppb	8.114	1.52%
B 249.677†	34562.9	1148.8	µg/L	12.67	1148.8	ppb	12.67	1.10%
Ba 233.527†	103411.9	1097.8	µg/L	14.78	1097.8	ppb	14.78	1.35%
Be 313.107†	980070.7	525.94	µg/L	6.692	525.94	ppb	6.692	1.27%
Ca 317.933Radial†	127605.0	122810	µg/L	859.3	122810	ppb	859.3	0.70%
Cd 226.502†	30825.4	497.39	µg/L	6.923	497.39	ppb	6.923	1.39%
Co 228.616†	16849.6	503.74	µg/L	7.055	503.74	ppb	7.055	1.40%
Cr 267.716†	22313.3	480.76	µg/L	5.659	480.76	ppb	5.659	1.18%
Cu 324.752†	97401.7	513.69	µg/L	6.208	513.69	ppb	6.208	1.21%
Fe 238.204 Radial†	12664.0	13617	µg/L	119.1	13617	ppb	119.1	0.87%
K 766.490 Radial†	25217.0	21843	µg/L	190.0	21843	ppb	190.0	0.87%
Mg 279.077 IEC†	8816.8	69220	µg/L	749.2	69220	ppb	749.2	1.08%
Mn 257.610†	373082.1	614.23	µg/L	8.040	614.23	ppb	8.040	1.31%
Mo 202.031†	3993.5	473.12	µg/L	5.108	473.12	ppb	5.108	1.08%
Na 589.592 Radial†	23110.5	136560	µg/L	1420.2	136560	ppb	1420.2	1.04%

Ni 231.604†	12334.9	462.79	µg/L	3.764	462.79	ppb	3.764	0.81%
P 214.914†	685.1	626.76	µg/L	11.505	626.76	ppb	11.505	1.84%
Pb 220.353†	2448.6	490.93	µg/L	2.420	490.93	ppb	2.420	0.49%
S 181.975 Axial†	5538.7	15176	µg/L	151.9	15176	ppb	151.9	1.00%
Sb 206.836†	870.3	455.96	µg/L	9.379	455.96	ppb	9.379	2.06%
Se 196.026†	216.6	431.36	µg/L	4.191	431.36	ppb	4.191	0.97%
SiO2†	287296.7	36399	µg/L	518.7	36399	ppb	518.7	1.42%
Si 251.611†	299334.4	16884	µg/L	236.2	16884	ppb	236.2	1.40%
Sn 189.927†	1251.8	418.84	µg/L	3.052	418.84	ppb	3.052	0.73%
Sr 421.552†	95959.6	1409.3	µg/L	3.76	1409.3	ppb	3.76	0.27%
Ti 334.940†	177350.8	489.10	µg/L	6.338	489.10	ppb	6.338	1.30%
Tl 190.801†	874.5	440.22	µg/L	7.222	440.22	ppb	7.222	1.64%
U 367.007†	1668.2	463.1	µg/L	11.39	463.1	ppb	11.39	2.46%
V 292.402†	48797.1	501.02	µg/L	6.386	501.02	ppb	6.386	1.27%
Zn 213.857†	34046.6	456.84	µg/L	6.105	456.84	ppb	6.105	1.34%

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Sequence No.: 6 **Autosampler Location: 306**
Sample ID: 1202969093|1339673|5 **Date Collected: 11/5/2013 12:43:01**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969093|1339673|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6072.9	6072.9	94.4	%			12:43:49
1	Al 396.153Radial†	-163.9	1.7	1.2962	µg/L	1.2962	ppb	12:43:49
1	Ca 317.933Radial†	22517.6	23810.3	22915	µg/L	22915	ppb	12:43:49
1	Fe 238.204 Radial†	1456.8	1503.4	1616.0	µg/L	1616.0	ppb	12:43:49
1	K 766.490 Radial†	4053.1	3632.6	3143.9	µg/L	3143.9	ppb	12:43:29
1	Mg 279.077 IEC†	1523.4	1605.7	12607	µg/L	12607	ppb	12:43:49
1	Na 589.592 Radial†	3992.5	4413.0	26077	µg/L	26077	ppb	12:43:49
1	Sr 421.552†	10330.6	11831.3	173.72	µg/L	173.72	ppb	12:43:49
1	Sc 361.383	535536.7	535536.7	94.473	%			12:44:46
1	Y 371.029	478626.8	478626.8	91.905	%			12:44:46
1	Ag 328.068†	-450.5	-230.0	-0.8983	µg/L	-0.8983	ppb	12:44:46
1	As 188.979†	-3.0	9.2	7.7781	µg/L	7.7781	ppb	12:45:06
1	B 249.677†	3636.5	3623.3	120.08	µg/L	120.08	ppb	12:44:46
1	Ba 233.527†	10072.1	10715.5	113.68	µg/L	113.68	ppb	12:45:06
1	Be 313.107†	-5430.6	-240.0	0.1120	µg/L	0.1120	ppb	12:44:46
1	Cd 226.502†	-161.2	-12.2	-0.3547	µg/L	-0.3547	ppb	12:45:06
1	Co 228.616†	-75.5	35.4	1.1264	µg/L	1.1264	ppb	12:45:06
1	Cr 267.716†	219.3	151.2	3.5906	µg/L	3.5906	ppb	12:45:06
1	Cu 324.752†	2051.1	-183.7	-0.8943	µg/L	-0.8943	ppb	12:44:46
1	Mn 257.610†	19552.5	20301.1	33.181	µg/L	33.181	ppb	12:44:46
1	Mo 202.031†	14.1	3.6	0.4959	µg/L	0.4959	ppb	12:45:06
1	Ni 231.604†	65.8	182.9	6.9070	µg/L	6.9070	ppb	12:45:06
1	P 214.914†	74.3	24.3	21.661	µg/L	21.661	ppb	12:45:06
1	Pb 220.353†	128.9	-34.3	-5.2497	µg/L	-5.2497	ppb	12:45:06
1	S 181.975 Axial†	740.1	731.2	2002.2	µg/L	2002.2	ppb	12:45:06
1	Sb 206.836†	62.0	1.9	0.8317	µg/L	0.8317	ppb	12:45:06
1	Se 196.026†	-44.3	3.4	8.1648	µg/L	8.1648	ppb	12:45:06
1	SiO2†	41115.6	42331.7	5359.8	µg/L	5359.8	ppb	12:44:46
1	Si 251.611†	41576.1	43711.6	2466.6	µg/L	2466.6	ppb	12:44:46
1	Sn 189.927†	-49.6	-75.6	-16.818	µg/L	-16.818	ppb	12:45:06
1	Ti 334.940†	-702.6	-257.7	0.0802	µg/L	0.0802	ppb	12:44:46
1	Tl 190.801†	-27.2	-2.6	-1.2745	µg/L	-1.2745	ppb	12:45:06
1	U 367.007†	513.5	5.8	-10.70	µg/L	-10.70	ppb	12:44:46
1	V 292.402†	246.2	184.7	1.8925	µg/L	1.8925	ppb	12:44:46
1	Zn 213.857†	840.8	178.7	1.9551	µg/L	1.9551	ppb	12:45:06
2	Sc RADIAL	6029.6	6029.6	93.7	%			12:44:14
2	Al 396.153Radial†	-164.8	-0.6	-1.0609	µg/L	-1.0609	ppb	12:44:14
2	Ca 317.933Radial†	22389.9	23845.3	22949	µg/L	22949	ppb	12:44:14
2	Fe 238.204 Radial†	1438.8	1495.3	1607.3	µg/L	1607.3	ppb	12:44:14
2	K 766.490 Radial†	4120.5	3735.3	3233.2	µg/L	3233.2	ppb	12:43:54
2	Mg 279.077 IEC†	1515.0	1608.3	12627	µg/L	12627	ppb	12:44:14
2	Na 589.592 Radial†	3970.0	4419.4	26114	µg/L	26114	ppb	12:44:14
2	Sr 421.552†	10294.2	11871.0	174.30	µg/L	174.30	ppb	12:44:14
2	Sc 361.383	531372.7	531372.7	93.738	%			12:45:12
2	Y 371.029	474765.7	474765.7	91.164	%			12:45:12
2	Ag 328.068†	-359.2	-136.4	-0.2552	µg/L	-0.2552	ppb	12:45:12
2	As 188.979†	-15.6	-4.3	-3.3807	µg/L	-3.3807	ppb	12:45:32
2	B 249.677†	3578.0	3591.1	118.96	µg/L	118.96	ppb	12:45:12
2	Ba 233.527†	10061.4	10787.6	114.45	µg/L	114.45	ppb	12:45:32
2	Be 313.107†	-5441.3	-296.5	0.0846	µg/L	0.0846	ppb	12:45:12
2	Cd 226.502†	-138.3	10.9	0.0191	µg/L	0.0191	ppb	12:45:32
2	Co 228.616†	-86.5	23.1	0.7581	µg/L	0.7581	ppb	12:45:32
2	Cr 267.716†	220.5	154.2	3.6488	µg/L	3.6488	ppb	12:45:32
2	Cu 324.752†	2143.8	-67.8	-0.2770	µg/L	-0.2770	ppb	12:45:12
2	Mn 257.610†	19483.9	20390.1	33.327	µg/L	33.327	ppb	12:45:12
2	Mo 202.031†	15.9	5.7	0.7427	µg/L	0.7427	ppb	12:45:32
2	Ni 231.604†	49.0	165.5	6.2559	µg/L	6.2559	ppb	12:45:32
2	P 214.914†	90.9	42.6	38.985	µg/L	38.985	ppb	12:45:32
2	Pb 220.353†	150.5	-10.3	-0.4931	µg/L	-0.4931	ppb	12:45:32

2	S 181.975 Axial†	747.9	745.6	2041.7	µg/L	2041.7	ppb	12:45:32
2	Sb 206.836†	64.4	5.0	2.4596	µg/L	2.4596	ppb	12:45:32
2	Se 196.026†	-36.7	11.2	22.989	µg/L	22.989	ppb	12:45:32
2	SiO2†	40838.0	42376.5	5363.6	µg/L	5363.6	ppb	12:45:12
2	Si 251.611†	41344.7	43809.6	2471.3	µg/L	2471.3	ppb	12:45:12
2	Sn 189.927†	-50.3	-76.7	-17.153	µg/L	-17.153	ppb	12:45:32
2	Ti 334.940†	-707.7	-269.0	0.0448	µg/L	0.0448	ppb	12:45:12
2	Tl 190.801†	-31.7	-7.7	-3.8163	µg/L	-3.8163	ppb	12:45:32
2	U 367.007†	543.7	42.3	1.484	µg/L	1.484	ppb	12:45:12
2	V 292.402†	273.1	215.5	2.2169	µg/L	2.2169	ppb	12:45:12
2	Zn 213.857†	834.0	178.4	1.9555	µg/L	1.9555	ppb	12:45:32
3	Sc RADIAL	6040.0	6040.0	93.9	%			12:44:39
3	Al 396.153Radial†	-149.8	15.7	15.976	µg/L	15.976	ppb	12:44:39
3	Ca 317.933Radial†	22344.4	23755.8	22863	µg/L	22863	ppb	12:44:39
3	Fe 238.204 Radial†	1439.4	1493.3	1605.1	µg/L	1605.1	ppb	12:44:39
3	K 766.490 Radial†	4161.3	3771.2	3264.7	µg/L	3264.7	ppb	12:44:19
3	Mg 279.077 IEC†	1504.0	1593.9	12513	µg/L	12513	ppb	12:44:39
3	Na 589.592 Radial†	3896.8	4334.1	25611	µg/L	25611	ppb	12:44:39
3	Sr 421.552†	10264.1	11820.1	173.55	µg/L	173.55	ppb	12:44:39
3	Sc 361.383	528778.2	528778.2	93.281	%			12:45:37
3	Y 371.029	472853.1	472853.1	90.796	%			12:45:37
3	Ag 328.068†	-302.8	-77.8	0.1463	µg/L	0.1463	ppb	12:45:37
3	As 188.979†	-13.9	-2.6	-1.9667	µg/L	-1.9667	ppb	12:45:57
3	B 249.677†	3526.1	3554.1	117.70	µg/L	117.70	ppb	12:45:37
3	Ba 233.527†	9981.2	10754.3	114.09	µg/L	114.09	ppb	12:45:57
3	Be 313.107†	-5485.2	-372.0	0.0404	µg/L	0.0404	ppb	12:45:37
3	Cd 226.502†	-136.3	12.3	0.0433	µg/L	0.0433	ppb	12:45:57
3	Co 228.616†	-89.6	19.3	0.6472	µg/L	0.6472	ppb	12:45:57
3	Cr 267.716†	216.2	150.8	3.5816	µg/L	3.5816	ppb	12:45:57
3	Cu 324.752†	2201.2	5.0	0.0968	µg/L	0.0968	ppb	12:45:37
3	Mn 257.610†	19414.8	20418.1	33.377	µg/L	33.377	ppb	12:45:37
3	Mo 202.031†	22.3	12.7	1.5643	µg/L	1.5643	ppb	12:45:57
3	Ni 231.604†	63.4	181.2	6.8449	µg/L	6.8449	ppb	12:45:57
3	P 214.914†	80.0	31.4	28.390	µg/L	28.390	ppb	12:45:57
3	Pb 220.353†	159.0	-0.4	1.4555	µg/L	1.4555	ppb	12:45:57
3	S 181.975 Axial†	727.2	727.3	1991.6	µg/L	1991.6	ppb	12:45:57
3	Sb 206.836†	60.9	1.6	0.6638	µg/L	0.6638	ppb	12:45:57
3	Se 196.026†	-47.6	-0.7	0.3692	µg/L	0.3692	ppb	12:45:57
3	SiO2†	40530.3	42260.5	5347.9	µg/L	5347.9	ppb	12:45:37
3	Si 251.611†	40968.3	43622.5	2460.3	µg/L	2460.3	ppb	12:45:37
3	Sn 189.927†	-58.6	-85.9	-19.976	µg/L	-19.976	ppb	12:45:57
3	Ti 334.940†	-735.6	-302.6	-0.0429	µg/L	-0.0429	ppb	12:45:37
3	Tl 190.801†	-26.1	-1.7	-0.8561	µg/L	-0.8561	ppb	12:45:57
3	U 367.007†	501.1	-0.4	-12.71	µg/L	-12.71	ppb	12:45:37
3	V 292.402†	282.2	226.6	2.3271	µg/L	2.3271	ppb	12:45:37
3	Zn 213.857†	811.8	159.0	1.6891	µg/L	1.6891	ppb	12:45:57

Mean Data: 1202969093|1339673|5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	531895.9	93.831	%	0.6015				0.64%
Sc RADIAL	6047.5	94.0	%	0.35				0.37%
Y 371.029	475415.2	91.288	%	0.5648				0.62%
Ag 328.068†	-148.1	-0.3357	µg/L	0.52695	-0.3357	ppb	0.52695	156.95%
Al 396.153Radial†	5.6	5.4038	µg/L	9.23142	5.4038	ppb	9.23142	170.83%
As 188.979†	0.8	0.8102	µg/L	6.07564	0.8102	ppb	6.07564	749.86%
B 249.677†	3589.5	118.91	µg/L	1.191	118.91	ppb	1.191	1.00%
Ba 233.527†	10752.5	114.07	µg/L	0.383	114.07	ppb	0.383	0.34%
Be 313.107†	-302.8	0.0790	µg/L	0.03614	0.0790	ppb	0.03614	45.74%
Ca 317.933Radial†	23803.8	22909	µg/L	43.4	22909	ppb	43.4	0.19%
Cd 226.502†	3.7	-0.0975	µg/L	0.22314	-0.0975	ppb	0.22314	228.94%
Co 228.616†	26.0	0.8439	µg/L	0.25084	0.8439	ppb	0.25084	29.72%
Cr 267.716†	152.1	3.6070	µg/L	0.03646	3.6070	ppb	0.03646	1.01%
Cu 324.752†	-82.2	-0.3582	µg/L	0.50054	-0.3582	ppb	0.50054	139.74%
Fe 238.204 Radial†	1497.3	1609.5	µg/L	5.75	1609.5	ppb	5.75	0.36%
K 766.490 Radial†	3713.0	3213.9	µg/L	62.65	3213.9	ppb	62.65	1.95%
Mg 279.077 IEC†	1602.7	12582	µg/L	60.6	12582	ppb	60.6	0.48%
Mn 257.610†	20369.8	33.295	µg/L	0.1015	33.295	ppb	0.1015	0.30%
Mo 202.031†	7.3	0.9343	µg/L	0.55936	0.9343	ppb	0.55936	59.87%
Na 589.592 Radial†	4388.9	25934	µg/L	280.6	25934	ppb	280.6	1.08%

Ni 231.604†	176.6	6.6693	µg/L	0.35935	6.6693	ppb	0.35935	5.39%
P 214.914†	32.8	29.678	µg/L	8.7338	29.678	ppb	8.7338	29.43%
Pb 220.353†	-15.0	-1.4291	µg/L	3.44918	-1.4291	ppb	3.44918	241.35%
S 181.975 Axial†	734.7	2011.8	µg/L	26.39	2011.8	ppb	26.39	1.31%
Sb 206.836†	2.8	1.3184	µg/L	0.99187	1.3184	ppb	0.99187	75.24%
Se 196.026†	4.6	10.508	µg/L	11.4903	10.508	ppb	11.4903	109.35%
SiO2†	42322.9	5357.1	µg/L	8.20	5357.1	ppb	8.20	0.15%
Si 251.611†	43714.6	2466.1	µg/L	5.54	2466.1	ppb	5.54	0.22%
Sn 189.927†	-79.4	-17.982	µg/L	1.7348	-17.982	ppb	1.7348	9.65%
Sr 421.552†	11840.8	173.85	µg/L	0.393	173.85	ppb	0.393	0.23%
Ti 334.940†	-276.4	0.0274	µg/L	0.06337	0.0274	ppb	0.06337	231.50%
Tl 190.801†	-4.0	-1.9823	µg/L	1.60202	-1.9823	ppb	1.60202	80.82%
U 367.007†	15.9	-7.308	µg/L	7.6808	-7.308	ppb	7.6808	105.10%
V 292.402†	208.9	2.1455	µg/L	0.22597	2.1455	ppb	0.22597	10.53%
Zn 213.857†	172.1	1.8666	µg/L	0.15367	1.8666	ppb	0.15367	8.23%

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Sequence No.: 7 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 12:46:05**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5974.5	5974.5	92.9	%			12:46:57
1	Al 396.153Radial†	4516.5	5039.3	5221.7	µg/L	5221.7	ppb	12:46:37
1	Ca 317.933Radial†	4876.8	5205.1	5008.8	µg/L	5008.8	ppb	12:46:57
1	Fe 238.204 Radial†	4509.7	4816.7	5182.1	µg/L	5182.1	ppb	12:46:57
1	K 766.490 Radial†	6226.6	6044.0	5243.0	µg/L	5243.0	ppb	12:46:37
1	Mg 279.077 IEC†	627.9	667.9	5243.4	µg/L	5243.4	ppb	12:46:57
1	Na 589.592 Radial†	1558.9	1861.9	11002	µg/L	11002	ppb	12:46:37
1	Sr 421.552†	32292.1	35662.7	523.94	µg/L	523.94	ppb	12:46:37
1	Sc 361.383	540407.8	540407.8	95.332	%			12:47:54
1	Y 371.029	484897.2	484897.2	93.109	%			12:47:54
1	Ag 328.068†	71722.3	75481.0	523.15	µg/L	523.15	ppb	12:47:59
1	As 188.979†	547.9	587.1	488.49	µg/L	488.49	ppb	12:48:19
1	B 249.677†	14267.6	14740.2	491.61	µg/L	491.61	ppb	12:47:59
1	Ba 233.527†	45234.9	47504.0	504.67	µg/L	504.67	ppb	12:47:59
1	Be 313.107†	885411.2	934273.6	500.20	µg/L	500.20	ppb	12:47:54
1	Cd 226.502†	28790.1	30358.2	490.67	µg/L	490.67	ppb	12:47:59
1	Co 228.616†	15847.5	16738.9	500.05	µg/L	500.05	ppb	12:47:59
1	Cr 267.716†	22601.2	23626.9	507.23	µg/L	507.23	ppb	12:47:59
1	Cu 324.752†	96297.8	98658.2	519.89	µg/L	519.89	ppb	12:47:59
1	Mn 257.610†	290102.9	303912.5	501.67	µg/L	501.67	ppb	12:47:59
1	Mo 202.031†	4093.0	4282.2	506.92	µg/L	506.92	ppb	12:48:19
1	Ni 231.604†	12227.2	12939.2	485.23	µg/L	485.23	ppb	12:48:19
1	P 214.914†	2493.3	2561.0	2406.8	µg/L	2406.8	ppb	12:48:19
1	Pb 220.353†	2521.7	2474.4	488.30	µg/L	488.30	ppb	12:48:19
1	S 181.975 Axial†	373.0	339.0	937.02	µg/L	937.02	ppb	12:48:19
1	Sb 206.836†	942.8	925.3	485.36	µg/L	485.36	ppb	12:48:19
1	Se 196.026†	196.5	256.4	498.37	µg/L	498.37	ppb	12:48:19
1	SiO2†	42230.9	43109.4	5448.9	µg/L	5448.9	ppb	12:47:59
1	Si 251.611†	43274.8	45096.8	2518.4	µg/L	2518.4	ppb	12:47:59
1	Sn 189.927†	1532.1	1584.1	488.04	µg/L	488.04	ppb	12:48:19
1	Ti 334.940†	180764.3	190101.4	519.95	µg/L	519.95	ppb	12:47:59
1	Tl 190.801†	919.5	990.8	498.53	µg/L	498.53	ppb	12:48:19
1	U 367.007†	1985.2	1544.7	487.8	µg/L	487.8	ppb	12:47:59
1	V 292.402†	47809.3	50074.4	514.33	µg/L	514.33	ppb	12:47:59
1	Zn 213.857†	35743.0	36781.9	496.09	µg/L	496.09	ppb	12:47:59
2	Sc RADIAL	6012.4	6012.4	93.4	%			12:47:22
2	Al 396.153Radial†	4467.5	4956.2	5134.8	µg/L	5134.8	ppb	12:47:02
2	Ca 317.933Radial†	4870.6	5165.3	4970.5	µg/L	4970.5	ppb	12:47:22
2	Fe 238.204 Radial†	4501.0	4776.7	5139.1	µg/L	5139.1	ppb	12:47:22
2	K 766.490 Radial†	6147.5	5917.1	5132.7	µg/L	5132.7	ppb	12:47:02
2	Mg 279.077 IEC†	618.4	653.5	5130.5	µg/L	5130.5	ppb	12:47:22
2	Na 589.592 Radial†	1583.8	1878.0	11097	µg/L	11097	ppb	12:47:02
2	Sr 421.552†	32184.0	35327.5	519.01	µg/L	519.01	ppb	12:47:02
2	Sc 361.383	540367.5	540367.5	95.325	%			12:48:24
2	Y 371.029	483989.6	483989.6	92.935	%			12:48:24
2	Ag 328.068†	71676.1	75438.1	522.85	µg/L	522.85	ppb	12:48:30
2	As 188.979†	537.3	576.1	479.30	µg/L	479.30	ppb	12:48:50
2	B 249.677†	14261.5	14735.0	491.49	µg/L	491.49	ppb	12:48:30
2	Ba 233.527†	45225.1	47497.2	504.61	µg/L	504.61	ppb	12:48:30
2	Be 313.107†	886174.7	935143.7	500.66	µg/L	500.66	ppb	12:48:24
2	Cd 226.502†	28839.1	30411.8	491.55	µg/L	491.55	ppb	12:48:30
2	Co 228.616†	15849.2	16741.8	500.14	µg/L	500.14	ppb	12:48:30
2	Cr 267.716†	22560.7	23586.1	506.36	µg/L	506.36	ppb	12:48:30
2	Cu 324.752†	96291.2	98658.8	519.87	µg/L	519.87	ppb	12:48:30
2	Mn 257.610†	290844.3	304712.9	503.00	µg/L	503.00	ppb	12:48:30
2	Mo 202.031†	4100.1	4289.8	507.83	µg/L	507.83	ppb	12:48:50
2	Ni 231.604†	12263.6	12978.4	486.70	µg/L	486.70	ppb	12:48:50
2	P 214.914†	2516.0	2585.0	2429.5	µg/L	2429.5	ppb	12:48:50
2	Pb 220.353†	2542.7	2496.6	492.74	µg/L	492.74	ppb	12:48:50

2	S 181.975 Axial†	378.1	344.4	951.87 µg/L	951.87 ppb		12:48:50
2	Sb 206.836†	952.1	935.0	490.56 µg/L	490.56 ppb		12:48:50
2	Se 196.026†	180.4	239.5	466.10 µg/L	466.10 ppb		12:48:50
2	SiO2†	42219.8	43101.0	5450.1 µg/L	5450.1 ppb		12:48:30
2	Si 251.611†	43226.7	45049.7	2516.9 µg/L	2516.9 ppb		12:48:30
2	Sn 189.927†	1533.9	1586.1	488.66 µg/L	488.66 ppb		12:48:50
2	Ti 334.940†	181046.5	190411.5	520.81 µg/L	520.81 ppb		12:48:30
2	Tl 190.801†	928.5	1000.2	503.26 µg/L	503.26 ppb		12:48:50
2	U 367.007†	1915.1	1471.3	463.7 µg/L	463.7 ppb		12:48:30
2	V 292.402†	47962.8	50239.1	515.98 µg/L	515.98 ppb		12:48:30
2	Zn 213.857†	35852.0	36899.1	497.67 µg/L	497.67 ppb		12:48:30
3	Sc RADIAL	5943.2	5943.2	92.4 %			12:47:47
3	Al 396.153Radial†	4543.9	5094.6	5279.8 µg/L	5279.8 ppb		12:47:27
3	Ca 317.933Radial†	4854.7	5208.8	5012.4 µg/L	5012.4 ppb		12:47:47
3	Fe 238.204 Radial†	4492.6	4823.7	5189.6 µg/L	5189.6 ppb		12:47:47
3	K 766.490 Radial†	6121.5	5965.6	5174.8 µg/L	5174.8 ppb		12:47:27
3	Mg 279.077 IEC†	624.6	667.9	5243.5 µg/L	5243.5 ppb		12:47:47
3	Na 589.592 Radial†	1578.8	1892.3	11182 µg/L	11182 ppb		12:47:27
3	Sr 421.552†	32309.8	35865.3	526.91 µg/L	526.91 ppb		12:47:27
3	Sc 361.383	543414.1	543414.1	95.862 %			12:48:55
3	Y 371.029	486983.1	486983.1	93.509 %			12:48:55
3	Ag 328.068†	71567.4	74903.2	519.17 µg/L	519.17 ppb		12:49:00
3	As 188.979†	538.0	573.6	477.23 µg/L	477.23 ppb		12:49:21
3	B 249.677†	14247.7	14636.7	488.16 µg/L	488.16 ppb		12:49:00
3	Ba 233.527†	45188.9	47193.5	501.38 µg/L	501.38 ppb		12:49:00
3	Be 313.107†	892270.1	936290.2	501.27 µg/L	501.27 ppb		12:48:55
3	Cd 226.502†	28775.1	30175.5	487.72 µg/L	487.72 ppb		12:49:00
3	Co 228.616†	15845.9	16645.2	497.26 µg/L	497.26 ppb		12:49:00
3	Cr 267.716†	22491.1	23380.9	501.96 µg/L	501.96 ppb		12:49:00
3	Cu 324.752†	96016.4	97805.8	515.38 µg/L	515.38 ppb		12:49:00
3	Mn 257.610†	289878.2	301994.5	498.51 µg/L	498.51 ppb		12:49:00
3	Mo 202.031†	4106.0	4271.9	505.71 µg/L	505.71 ppb		12:49:21
3	Ni 231.604†	12307.0	12951.5	485.70 µg/L	485.70 ppb		12:49:21
3	P 214.914†	2514.8	2569.0	2414.4 µg/L	2414.4 ppb		12:49:21
3	Pb 220.353†	2575.3	2515.7	496.43 µg/L	496.43 ppb		12:49:21
3	S 181.975 Axial†	379.0	343.1	948.19 µg/L	948.19 ppb		12:49:21
3	Sb 206.836†	962.3	940.1	493.28 µg/L	493.28 ppb		12:49:21
3	Se 196.026†	193.8	252.5	490.70 µg/L	490.70 ppb		12:49:21
3	SiO2†	42092.4	42719.8	5399.9 µg/L	5399.9 ppb		12:49:00
3	Si 251.611†	43039.9	44600.7	2490.8 µg/L	2490.8 ppb		12:49:00
3	Sn 189.927†	1541.0	1584.4	488.13 µg/L	488.13 ppb		12:49:21
3	Ti 334.940†	180122.1	188382.4	515.26 µg/L	515.26 ppb		12:49:00
3	Tl 190.801†	931.3	997.7	501.97 µg/L	501.97 ppb		12:49:21
3	U 367.007†	1898.5	1442.7	453.9 µg/L	453.9 ppb		12:49:00
3	V 292.402†	47831.8	49820.4	511.70 µg/L	511.70 ppb		12:49:00
3	Zn 213.857†	35733.1	36564.2	493.12 µg/L	493.12 ppb		12:49:00

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	541396.5	95.506	%	0.3083				0.32%
Sc RADIAL	5976.7	92.9	%	0.54				0.58%
Y 371.029	485290.0	93.184	%	0.2947				0.32%
Ag 328.068†	75274.1	521.72	µg/L	2.219	521.72	ppb	2.219	0.43%
QC value within limits for Ag 328.068 Recovery = 104.34%								
Al 396.153Radial†	5030.1	5212.1	µg/L	72.95	5212.1	ppb	72.95	1.40%
QC value within limits for Al 396.153Radial Recovery = 104.24%								
As 188.979†	578.9	481.67	µg/L	5.991	481.67	ppb	5.991	1.24%
QC value within limits for As 188.979 Recovery = 96.33%								
B 249.677†	14704.0	490.42	µg/L	1.956	490.42	ppb	1.956	0.40%
QC value within limits for B 249.677 Recovery = 98.08%								
Ba 233.527†	47398.2	503.55	µg/L	1.885	503.55	ppb	1.885	0.37%
QC value within limits for Ba 233.527 Recovery = 100.71%								
Be 313.107†	935235.8	500.71	µg/L	0.537	500.71	ppb	0.537	0.11%
QC value within limits for Be 313.107 Recovery = 100.14%								
Ca 317.933Radial†	5193.1	4997.3	µg/L	23.21	4997.3	ppb	23.21	0.46%
QC value within limits for Ca 317.933Radial Recovery = 99.95%								
Cd 226.502†	30315.2	489.98	µg/L	2.007	489.98	ppb	2.007	0.41%
QC value within limits for Cd 226.502 Recovery = 98.00%								
Co 228.616†	16708.6	499.15	µg/L	1.637	499.15	ppb	1.637	0.33%

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   QC value within limits for Co 228.616  Recovery = 99.83%
Cr 267.716†            23531.3      505.18 µg/L         2.821      505.18 ppb          2.821   0.56%
   QC value within limits for Cr 267.716  Recovery = 101.04%
Cu 324.752†            98374.2      518.38 µg/L         2.600      518.38 ppb          2.600   0.50%
   QC value within limits for Cu 324.752  Recovery = 103.68%
Fe 238.204 Radial†      4805.7      5170.3 µg/L         27.27      5170.3 ppb          27.27   0.53%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.41%
K 766.490 Radial†       5975.6      5183.5 µg/L         55.68      5183.5 ppb          55.68   1.07%
   QC value within limits for K 766.490 Radial  Recovery = 103.67%
Mg 279.077 IEC†          663.1      5205.8 µg/L         65.21      5205.8 ppb          65.21   1.25%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.12%
Mn 257.610†           303540.0      501.06 µg/L         2.305      501.06 ppb          2.305   0.46%
   QC value within limits for Mn 257.610  Recovery = 100.21%
Mo 202.031†             4281.3      506.82 µg/L         1.065      506.82 ppb          1.065   0.21%
   QC value within limits for Mo 202.031  Recovery = 101.36%
Na 589.592 Radial†      1877.4       11094 µg/L          89.9       11094 ppb           89.9   0.81%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 110.94%
Ni 231.604†            12956.3      485.88 µg/L         0.751      485.88 ppb          0.751   0.15%
   QC value within limits for Ni 231.604  Recovery = 97.18%
P 214.914†              2571.7      2416.9 µg/L         11.54      2416.9 ppb          11.54   0.48%
   QC value within limits for P 214.914  Recovery = 96.68%
Pb 220.353†             2495.5      492.49 µg/L         4.072      492.49 ppb          4.072   0.83%
   QC value within limits for Pb 220.353  Recovery = 98.50%
S 181.975 Axial†         342.1      945.69 µg/L         7.733      945.69 ppb          7.733   0.82%
   QC value within limits for S 181.975 Axial  Recovery = 94.57%
Sb 206.836†              933.4      489.73 µg/L         4.025      489.73 ppb          4.025   0.82%
   QC value within limits for Sb 206.836  Recovery = 97.95%
Se 196.026†              249.5      485.06 µg/L        16.854      485.06 ppb         16.854   3.47%
   QC value within limits for Se 196.026  Recovery = 97.01%
SiO2†                  42976.7      5433.0 µg/L         28.65      5433.0 ppb          28.65   0.53%
   QC value within limits for SiO2  Recovery = 101.60%
Si 251.611†            44915.8      2508.7 µg/L         15.54      2508.7 ppb          15.54   0.62%
   QC value within limits for Si 251.611  Recovery = 100.35%
Sn 189.927†             1584.9      488.28 µg/L         0.334      488.28 ppb          0.334   0.07%
   QC value within limits for Sn 189.927  Recovery = 97.66%
Sr 421.552†            35618.5      523.29 µg/L         3.990      523.29 ppb          3.990   0.76%
   QC value within limits for Sr 421.552  Recovery = 104.66%
Ti 334.940†           189631.8      518.67 µg/L         2.985      518.67 ppb          2.985   0.58%
   QC value within limits for Ti 334.940  Recovery = 103.73%
Tl 190.801†              996.2      501.25 µg/L         2.442      501.25 ppb          2.442   0.49%
   QC value within limits for Tl 190.801  Recovery = 100.25%
U 367.007†              1486.2       468.4 µg/L         17.49       468.4 ppb          17.49   3.73%
   QC value within limits for U 367.007  Recovery = 93.69%
V 292.402†             50044.6      514.00 µg/L         2.158      514.00 ppb          2.158   0.42%
   QC value within limits for V 292.402  Recovery = 102.80%
Zn 213.857†            36748.4      495.63 µg/L         2.309      495.63 ppb          2.309   0.47%
   QC value within limits for Zn 213.857  Recovery = 99.13%
QC Failed.  Continue with analysis.
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Sequence No.: 8 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 12:49:28**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6356.5	6356.5	98.8	%			12:49:56
1	Al 396.153Radial†	-150.7	22.8	23.865	µg/L	23.865	ppb	12:49:56
1	Ca 317.933Radial†	52.0	5.8	5.5329	µg/L	5.5329	ppb	12:50:16
1	Fe 238.204 Radial†	35.6	-4.0	-4.2761	µg/L	-4.2761	ppb	12:50:16
1	K 766.490 Radial†	736.0	83.4	72.377	µg/L	72.377	ppb	12:49:56
1	Mg 279.077 IEC†	9.3	1.1	8.4241	µg/L	8.4241	ppb	12:50:16
1	Na 589.592 Radial†	-148.1	33.1	195.80	µg/L	195.80	ppb	12:49:56
1	Sr 421.552†	-835.7	40.2	0.5903	µg/L	0.5903	ppb	12:49:56
1	Sc 361.383	556582.5	556582.5	98.185	%			12:51:13
1	Y 371.029	512555.4	512555.4	98.420	%			12:51:13
1	Ag 328.068†	-311.6	-70.5	-0.4807	µg/L	-0.4807	ppb	12:51:13
1	As 188.979†	-17.1	-5.0	-4.1701	µg/L	-4.1701	ppb	12:51:33
1	B 249.677†	292.2	71.6	2.3705	µg/L	2.3705	ppb	12:51:13
1	Ba 233.527†	-62.2	-9.2	-0.0969	µg/L	-0.0969	ppb	12:51:33
1	Be 313.107†	-4948.2	468.6	0.2492	µg/L	0.2492	ppb	12:51:13
1	Cd 226.502†	-130.1	25.9	0.4201	µg/L	0.4201	ppb	12:51:33
1	Co 228.616†	-95.3	18.3	0.5444	µg/L	0.5444	ppb	12:51:33
1	Cr 267.716†	88.2	8.9	0.1957	µg/L	0.1957	ppb	12:51:33
1	Cu 324.752†	2246.8	-66.5	-0.3545	µg/L	-0.3545	ppb	12:51:13
1	Mn 257.610†	390.7	2.7	0.0038	µg/L	0.0038	ppb	12:51:13
1	Mo 202.031†	2.1	-9.1	-1.0798	µg/L	-1.0798	ppb	12:51:33
1	Ni 231.604†	-103.9	7.5	0.2812	µg/L	0.2812	ppb	12:51:33
1	P 214.914†	53.2	-0.1	-0.1058	µg/L	-0.1058	ppb	12:51:33
1	Pb 220.353†	155.8	-12.1	-2.3960	µg/L	-2.3960	ppb	12:51:33
1	S 181.975 Axial†	51.2	-0.1	-0.1959	µg/L	-0.1959	ppb	12:51:33
1	Sb 206.836†	62.6	0.0	0.0006	µg/L	0.0006	ppb	12:51:33
1	Se 196.026†	-52.8	-3.4	-6.5605	µg/L	-6.5605	ppb	12:51:33
1	SiO2†	1620.0	460.5	57.351	µg/L	57.351	ppb	12:51:13
1	Si 251.611†	674.9	390.4	21.580	µg/L	21.580	ppb	12:51:33
1	Sn 189.927†	30.4	7.9	2.4310	µg/L	2.4310	ppb	12:51:33
1	Ti 334.940†	-486.2	-9.2	-0.0215	µg/L	-0.0215	ppb	12:51:13
1	Tl 190.801†	-33.4	-7.9	-3.9474	µg/L	-3.9474	ppb	12:51:33
1	U 367.007†	504.7	-23.6	-7.842	µg/L	-7.842	ppb	12:51:13
1	V 292.402†	144.1	70.8	0.6993	µg/L	0.6993	ppb	12:51:13
1	Zn 213.857†	687.3	-11.2	-0.1536	µg/L	-0.1536	ppb	12:51:33
2	Sc RADIAL	6210.8	6210.8	96.5	%			12:50:21
2	Al 396.153Radial†	-109.1	62.3	65.087	µg/L	65.087	ppb	12:50:21
2	Ca 317.933Radial†	49.4	4.3	4.1133	µg/L	4.1133	ppb	12:50:41
2	Fe 238.204 Radial†	44.0	5.5	5.9610	µg/L	5.9610	ppb	12:50:41
2	K 766.490 Radial†	713.8	77.8	67.476	µg/L	67.476	ppb	12:50:21
2	Mg 279.077 IEC†	8.3	0.3	2.1565	µg/L	2.1565	ppb	12:50:41
2	Na 589.592 Radial†	-136.5	41.6	245.90	µg/L	245.90	ppb	12:50:21
2	Sr 421.552†	-847.9	7.8	0.1142	µg/L	0.1142	ppb	12:50:21
2	Sc 361.383	556951.3	556951.3	98.250	%			12:51:38
2	Y 371.029	512300.2	512300.2	98.371	%			12:51:38
2	Ag 328.068†	-203.2	40.1	0.2844	µg/L	0.2844	ppb	12:51:38
2	As 188.979†	-14.2	-2.0	-1.6752	µg/L	-1.6752	ppb	12:51:58
2	B 249.677†	287.8	67.0	2.2180	µg/L	2.2180	ppb	12:51:38
2	Ba 233.527†	-73.2	-20.4	-0.2147	µg/L	-0.2147	ppb	12:51:58
2	Be 313.107†	-4142.3	1292.3	0.6909	µg/L	0.6909	ppb	12:51:38
2	Cd 226.502†	-147.5	8.3	0.1334	µg/L	0.1334	ppb	12:51:58
2	Co 228.616†	-99.5	14.1	0.4208	µg/L	0.4208	ppb	12:51:58
2	Cr 267.716†	88.4	9.0	0.1952	µg/L	0.1952	ppb	12:51:58
2	Cu 324.752†	2410.5	98.6	0.5168	µg/L	0.5168	ppb	12:51:38
2	Mn 257.610†	739.6	357.5	0.5901	µg/L	0.5901	ppb	12:51:38
2	Mo 202.031†	18.8	7.8	0.9255	µg/L	0.9255	ppb	12:51:58
2	Ni 231.604†	-100.6	10.9	0.4074	µg/L	0.4074	ppb	12:51:58
2	P 214.914†	52.4	-1.0	-0.9161	µg/L	-0.9161	ppb	12:51:58
2	Pb 220.353†	184.0	16.5	3.2284	µg/L	3.2284	ppb	12:51:58

2	S 181.975 Axial†	47.1	-4.3	-11.762	µg/L	-11.762	ppb	12:51:58
2	Sb 206.836†	52.7	-10.1	-5.3416	µg/L	-5.3416	ppb	12:51:58
2	Se 196.026†	-53.7	-4.4	-8.3516	µg/L	-8.3516	ppb	12:51:58
2	SiO2†	1780.9	623.2	78.405	µg/L	78.405	ppb	12:51:38
2	Si 251.611†	592.6	306.3	16.796	µg/L	16.796	ppb	12:51:58
2	Sn 189.927†	22.3	-0.4	-0.1291	µg/L	-0.1291	ppb	12:51:58
2	Ti 334.940†	-369.2	110.2	0.3033	µg/L	0.3033	ppb	12:51:38
2	Tl 190.801†	-26.2	-0.5	-0.2444	µg/L	-0.2444	ppb	12:51:58
2	U 367.007†	517.9	-10.6	-3.550	µg/L	-3.550	ppb	12:51:38
2	V 292.402†	185.9	113.3	1.1557	µg/L	1.1557	ppb	12:51:38
2	Zn 213.857†	681.6	-17.5	-0.2414	µg/L	-0.2414	ppb	12:51:58
3	Sc RADIAL	6248.9	6248.9	97.1	%			12:50:46
3	Al 396.153Radial†	-155.9	14.8	15.425	µg/L	15.425	ppb	12:50:46
3	Ca 317.933Radial†	45.9	0.3	0.2960	µg/L	0.2960	ppb	12:51:06
3	Fe 238.204 Radial†	38.4	-0.4	-0.4662	µg/L	-0.4662	ppb	12:51:06
3	K 766.490 Radial†	623.3	-19.9	-17.359	µg/L	-17.359	ppb	12:50:46
3	Mg 279.077 IEC†	6.6	-1.5	-12.074	µg/L	-12.074	ppb	12:51:06
3	Na 589.592 Radial†	-150.8	27.7	163.96	µg/L	163.96	ppb	12:50:46
3	Sr 421.552†	-836.3	25.1	0.3684	µg/L	0.3684	ppb	12:50:46
3	Sc 361.383	556392.2	556392.2	98.152	%			12:52:04
3	Y 371.029	512664.0	512664.0	98.441	%			12:52:04
3	Ag 328.068†	-324.7	-83.9	-0.5717	µg/L	-0.5717	ppb	12:52:04
3	As 188.979†	-11.0	1.2	0.9548	µg/L	0.9548	ppb	12:52:24
3	B 249.677†	254.0	32.8	1.1090	µg/L	1.1090	ppb	12:52:04
3	Ba 233.527†	-91.8	-39.4	-0.4168	µg/L	-0.4168	ppb	12:52:24
3	Be 313.107†	-5191.8	218.7	0.1127	µg/L	0.1127	ppb	12:52:04
3	Cd 226.502†	-172.1	-16.9	-0.2737	µg/L	-0.2737	ppb	12:52:24
3	Co 228.616†	-98.0	15.6	0.4666	µg/L	0.4666	ppb	12:52:24
3	Cr 267.716†	92.8	13.6	0.3043	µg/L	0.3043	ppb	12:52:24
3	Cu 324.752†	2237.2	-75.5	-0.4113	µg/L	-0.4113	ppb	12:52:04
3	Mn 257.610†	384.5	-3.5	-0.0054	µg/L	-0.0054	ppb	12:52:04
3	Mo 202.031†	21.5	10.6	1.2598	µg/L	1.2598	ppb	12:52:24
3	Ni 231.604†	-114.3	-3.2	-0.1196	µg/L	-0.1196	ppb	12:52:24
3	P 214.914†	67.5	14.4	13.636	µg/L	13.636	ppb	12:52:24
3	Pb 220.353†	154.5	-13.4	-2.6394	µg/L	-2.6394	ppb	12:52:24
3	S 181.975 Axial†	54.2	3.0	8.2665	µg/L	8.2665	ppb	12:52:24
3	Sb 206.836†	68.2	5.7	3.0478	µg/L	3.0478	ppb	12:52:24
3	Se 196.026†	-47.4	2.0	3.6791	µg/L	3.6791	ppb	12:52:24
3	SiO2†	1452.9	290.8	37.548	µg/L	37.548	ppb	12:52:04
3	Si 251.611†	569.2	283.0	16.361	µg/L	16.361	ppb	12:52:24
3	Sn 189.927†	31.2	8.7	2.6668	µg/L	2.6668	ppb	12:52:24
3	Ti 334.940†	-459.0	18.4	0.0603	µg/L	0.0603	ppb	12:52:04
3	Tl 190.801†	-29.6	-4.0	-2.0192	µg/L	-2.0192	ppb	12:52:24
3	U 367.007†	464.5	-64.4	-21.42	µg/L	-21.42	ppb	12:52:04
3	V 292.402†	147.2	74.0	0.7475	µg/L	0.7475	ppb	12:52:04
3	Zn 213.857†	685.8	-12.5	-0.1684	µg/L	-0.1684	ppb	12:52:24

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	556642.0	98.196	%	0.0502				0.05%
Sc RADIAL	6272.1	97.5	%	1.17				1.20%
Y 371.029	512506.5	98.410	%	0.0359				0.04%
Ag 328.068†	-38.1	-0.2560	µg/L	0.47024	-0.2560	ppb	0.47024	183.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	33.3	34.792	µg/L	26.5731	34.792	ppb	26.5731	76.38%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.0	-1.6302	µg/L	2.56273	-1.6302	ppb	2.56273	157.21%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	57.1	1.8991	µg/L	0.68855	1.8991	ppb	0.68855	36.26%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-23.0	-0.2428	µg/L	0.16180	-0.2428	ppb	0.16180	66.64%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	659.9	0.3509	µg/L	0.30220	0.3509	ppb	0.30220	86.11%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.4	3.3141	µg/L	2.70835	3.3141	ppb	2.70835	81.72%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	5.8	0.0933	µg/L	0.34864	0.0933	ppb	0.34864	373.87%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	16.0	0.4773	µg/L	0.06247	0.4773	ppb	0.06247	13.09%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                10.5      0.2317 µg/L       0.06284      0.2317 ppb        0.06284  27.12%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -14.5     -0.0830 µg/L       0.52025     -0.0830 ppb        0.52025 626.83%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.4      0.4062 µg/L       5.17401      0.4062 ppb        5.17401 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          47.1      40.831 µg/L       50.4540      40.831 ppb        50.4540 123.57%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -0.1     -0.4979 µg/L      10.50389     -0.4979 ppb       10.50389 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               118.9      0.1962 µg/L       0.34122      0.1962 ppb        0.34122 173.95%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 3.1      0.3685 µg/L       1.26536      0.3685 ppb        1.26536 343.39%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         34.2      201.88 µg/L        41.307      201.88 ppb         41.307  20.46%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 5.1      0.1897 µg/L       0.27516      0.1897 ppb        0.27516 145.07%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  4.4      4.2046 µg/L       8.17763      4.2046 ppb        8.17763 194.49%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -3.0     -0.6023 µg/L       3.31976     -0.6023 ppb        3.31976 551.18%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -0.5     -1.2304 µg/L      10.05415     -1.2304 ppb       10.05415 817.12%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -1.5     -0.7644 µg/L       4.24671     -0.7644 ppb        4.24671 555.56%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -1.9     -3.7443 µg/L       6.49096     -3.7443 ppb        6.49096 173.36%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     458.2      57.768 µg/L       20.4318      57.768 ppb        20.4318  35.37%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               326.6      18.246 µg/L        2.8961      18.246 ppb         2.8961  15.87%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 5.4      1.6562 µg/L       1.55060      1.6562 ppb        1.55060  93.62%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                24.3      0.3576 µg/L       0.23824      0.3576 ppb        0.23824  66.62%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                39.8      0.1140 µg/L       0.16891      0.1140 ppb        0.16891 148.12%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -4.1     -2.0704 µg/L       1.85203     -2.0704 ppb        1.85203  89.45%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -32.9      -10.94 µg/L         9.326      -10.94 ppb          9.326  85.28%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 86.1      0.8675 µg/L       0.25076      0.8675 ppb        0.25076  28.91%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -13.7     -0.1878 µg/L       0.04702     -0.1878 ppb        0.04702  25.03%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 9
Sample ID: 335304002|1339673|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 307
Date Collected: 11/5/2013 12:52:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304002|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6204.4	6204.4	96.4	%			12:53:03
1	Al 396.153Radial†	-137.3	32.9	32.262	µg/L	32.262	ppb	12:53:03
1	Ca 317.933Radial†	107738.8	111681.1	107480	µg/L	107480	ppb	12:53:03
1	Fe 238.204 Radial†	7147.0	7371.6	7923.5	µg/L	7923.5	ppb	12:53:03
1	K 766.490 Radial†	18073.6	18081.2	15652	µg/L	15652	ppb	12:53:03
1	Mg 279.077 IEC†	7228.9	7488.3	58790	µg/L	58790	ppb	12:53:03
1	Na 589.592 Radial†	19840.6	20758.3	122660	µg/L	122660	ppb	12:53:03
1	Sr 421.552†	53134.8	55988.3	822.06	µg/L	822.06	ppb	12:53:03
1	Sc 361.383	549427.1	549427.1	96.923	%			12:53:20
1	Y 371.029	486217.8	486217.8	93.363	%			12:53:20
1	Ag 328.068†	-704.0	-479.5	0.0015	µg/L	0.0015	ppb	12:53:20
1	As 188.979†	-5.6	6.6	6.2755	µg/L	6.2755	ppb	12:53:40
1	B 249.677†	17749.1	18086.6	599.43	µg/L	599.43	ppb	12:53:20
1	Ba 233.527†	52641.7	54367.0	576.78	µg/L	576.78	ppb	12:53:20
1	Be 313.107†	-7145.7	-1864.2	0.1371	µg/L	0.1371	ppb	12:53:20
1	Cd 226.502†	-120.4	34.2	-0.2206	µg/L	-0.2206	ppb	12:53:40
1	Co 228.616†	-22.6	92.0	3.0917	µg/L	3.0917	ppb	12:53:40
1	Cr 267.716†	530.2	466.0	11.599	µg/L	11.599	ppb	12:53:40
1	Cu 324.752†	1811.0	-486.3	-2.1802	µg/L	-2.1802	ppb	12:53:20
1	Mn 257.610†	90647.6	93129.9	152.23	µg/L	152.23	ppb	12:53:20
1	Mo 202.031†	18.3	7.6	1.2234	µg/L	1.2234	ppb	12:53:40
1	Ni 231.604†	645.0	778.7	29.438	µg/L	29.438	ppb	12:53:40
1	P 214.914†	166.3	117.2	104.43	µg/L	104.43	ppb	12:53:40
1	Pb 220.353†	92.3	-75.6	-7.7726	µg/L	-7.7726	ppb	12:53:40
1	S 181.975 Axial†	3576.4	3637.7	9961.6	µg/L	9961.6	ppb	12:53:40
1	Sb 206.836†	59.8	-2.1	-1.7256	µg/L	-1.7256	ppb	12:53:40
1	Se 196.026†	-50.4	-1.6	5.1080	µg/L	5.1080	ppb	12:53:40
1	SiO2†	193784.6	198746.9	25144	µg/L	25144	ppb	12:53:20
1	Si 251.611†	200545.6	206615.1	11651	µg/L	11651	ppb	12:53:20
1	Sn 189.927†	-182.8	-211.7	-35.067	µg/L	-35.067	ppb	12:53:40
1	Ti 334.940†	-1653.9	-1220.5	0.3310	µg/L	0.3310	ppb	12:53:20
1	Tl 190.801†	-37.7	-12.7	-6.2533	µg/L	-6.2533	ppb	12:53:40
1	U 367.007†	660.4	143.7	-13.28	µg/L	-13.28	ppb	12:53:20
1	V 292.402†	1008.9	965.1	9.8809	µg/L	9.8809	ppb	12:53:20
1	Zn 213.857†	919.6	237.6	0.9983	µg/L	0.9983	ppb	12:53:40
2	Sc RADIAL	6212.1	6212.1	96.5	%			12:53:08
2	Al 396.153Radial†	-142.9	27.3	26.391	µg/L	26.391	ppb	12:53:08
2	Ca 317.933Radial†	108073.1	111890.3	107680	µg/L	107680	ppb	12:53:08
2	Fe 238.204 Radial†	7146.8	7362.3	7913.5	µg/L	7913.5	ppb	12:53:08
2	K 766.490 Radial†	18177.4	18165.7	15725	µg/L	15725	ppb	12:53:08
2	Mg 279.077 IEC†	7228.3	7478.4	58712	µg/L	58712	ppb	12:53:08
2	Na 589.592 Radial†	20116.2	21018.5	124200	µg/L	124200	ppb	12:53:08
2	Sr 421.552†	53408.0	56203.7	825.23	µg/L	825.23	ppb	12:53:08
2	Sc 361.383	551198.7	551198.7	97.236	%			12:53:45
2	Y 371.029	488434.6	488434.6	93.788	%			12:53:45
2	Ag 328.068†	-654.9	-426.6	0.3646	µg/L	0.3646	ppb	12:53:45
2	As 188.979†	-0.2	12.2	10.912	µg/L	10.912	ppb	12:54:05
2	B 249.677†	17617.9	17892.9	592.89	µg/L	592.89	ppb	12:53:45
2	Ba 233.527†	52143.2	53679.7	569.49	µg/L	569.49	ppb	12:53:45
2	Be 313.107†	-7072.1	-1764.9	0.1959	µg/L	0.1959	ppb	12:53:45
2	Cd 226.502†	-114.0	41.1	-0.1067	µg/L	-0.1067	ppb	12:54:05
2	Co 228.616†	-15.9	99.1	3.2962	µg/L	3.2962	ppb	12:54:05
2	Cr 267.716†	551.4	486.1	12.020	µg/L	12.020	ppb	12:54:05
2	Cu 324.752†	1704.4	-602.0	-2.7794	µg/L	-2.7794	ppb	12:53:45
2	Mn 257.610†	89861.3	92020.7	150.40	µg/L	150.40	ppb	12:53:45
2	Mo 202.031†	15.3	4.4	0.8543	µg/L	0.8543	ppb	12:54:05
2	Ni 231.604†	638.9	770.4	29.125	µg/L	29.125	ppb	12:54:05
2	P 214.914†	160.1	110.3	97.942	µg/L	97.942	ppb	12:54:05
2	Pb 220.353†	93.5	-74.6	-7.5636	µg/L	-7.5636	ppb	12:54:05

2	S 181.975 Axial†	3552.5	3601.3	9861.8	µg/L	9861.8	ppb	12:54:05
2	Sb 206.836†	59.1	-2.9	-2.1894	µg/L	-2.1894	ppb	12:54:05
2	Se 196.026†	-58.5	-9.9	-10.497	µg/L	-10.497	ppb	12:54:05
2	SiO2†	192797.6	197089.2	24930	µg/L	24930	ppb	12:53:45
2	Si 251.611†	199461.1	204834.7	11548	µg/L	11548	ppb	12:53:45
2	Sn 189.927†	-187.4	-215.8	-36.255	µg/L	-36.255	ppb	12:54:05
2	Ti 334.940†	-1663.6	-1224.9	0.3193	µg/L	0.3193	ppb	12:53:45
2	Tl 190.801†	-37.9	-12.8	-6.3026	µg/L	-6.3026	ppb	12:54:05
2	U 367.007†	710.9	193.5	3.285	µg/L	3.285	ppb	12:53:45
2	V 292.402†	1024.6	977.9	10.021	µg/L	10.021	ppb	12:53:45
2	Zn 213.857†	894.5	208.7	0.6091	µg/L	0.6091	ppb	12:54:05
3	Sc RADIAL	6281.4	6281.4	97.6	%			12:53:13
3	Al 396.153Radial†	-163.8	7.5	5.7586	µg/L	5.7586	ppb	12:53:13
3	Ca 317.933Radial†	108698.6	111295.6	107110	µg/L	107110	ppb	12:53:13
3	Fe 238.204 Radial†	7224.1	7359.8	7910.8	µg/L	7910.8	ppb	12:53:13
3	K 766.490 Radial†	18254.0	18036.4	15613	µg/L	15613	ppb	12:53:13
3	Mg 279.077 IEC†	7290.5	7459.5	58564	µg/L	58564	ppb	12:53:13
3	Na 589.592 Radial†	20215.2	20890.0	123440	µg/L	123440	ppb	12:53:13
3	Sr 421.552†	53609.2	55799.3	819.29	µg/L	819.29	ppb	12:53:13
3	Sc 361.383	545147.8	545147.8	96.168	%			12:54:11
3	Y 371.029	483189.7	483189.7	92.781	%			12:54:11
3	Ag 328.068†	-742.8	-525.5	-0.3179	µg/L	-0.3179	ppb	12:54:11
3	As 188.979†	4.2	16.7	14.687	µg/L	14.687	ppb	12:54:31
3	B 249.677†	17791.2	18274.2	605.75	µg/L	605.75	ppb	12:54:11
3	Ba 233.527†	52981.7	55146.8	585.06	µg/L	585.06	ppb	12:54:11
3	Be 313.107†	-7140.9	-1917.2	0.1060	µg/L	0.1060	ppb	12:54:11
3	Cd 226.502†	-97.8	56.7	0.1452	µg/L	0.1452	ppb	12:54:31
3	Co 228.616†	-29.4	84.8	2.8790	µg/L	2.8790	ppb	12:54:31
3	Cr 267.716†	523.7	463.6	11.537	µg/L	11.537	ppb	12:54:31
3	Cu 324.752†	1869.0	-411.3	-1.7825	µg/L	-1.7825	ppb	12:54:11
3	Mn 257.610†	91184.1	94422.0	154.36	µg/L	154.36	ppb	12:54:11
3	Mo 202.031†	15.5	4.8	0.9007	µg/L	0.9007	ppb	12:54:31
3	Ni 231.604†	623.8	761.9	28.806	µg/L	28.806	ppb	12:54:31
3	P 214.914†	145.6	97.1	85.396	µg/L	85.396	ppb	12:54:31
3	Pb 220.353†	82.7	-84.8	-9.5957	µg/L	-9.5957	ppb	12:54:31
3	S 181.975 Axial†	3531.1	3619.6	9911.9	µg/L	9911.9	ppb	12:54:31
3	Sb 206.836†	70.7	9.8	4.5350	µg/L	4.5350	ppb	12:54:31
3	Se 196.026†	-47.7	0.7	9.4966	µg/L	9.4966	ppb	12:54:31
3	SiO2†	195336.5	201930.1	25553	µg/L	25553	ppb	12:54:11
3	Si 251.611†	202261.3	210023.3	11846	µg/L	11846	ppb	12:54:11
3	Sn 189.927†	-184.1	-214.5	-36.018	µg/L	-36.018	ppb	12:54:31
3	Ti 334.940†	-1667.7	-1248.2	0.2401	µg/L	0.2401	ppb	12:54:11
3	Tl 190.801†	-35.6	-10.8	-5.2964	µg/L	-5.2964	ppb	12:54:31
3	U 367.007†	670.2	159.2	-7.985	µg/L	-7.985	ppb	12:54:11
3	V 292.402†	1061.3	1027.7	10.515	µg/L	10.515	ppb	12:54:11
3	Zn 213.857†	906.4	231.3	0.9221	µg/L	0.9221	ppb	12:54:31

Mean Data: 335304002|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	548591.2	96.776	%	0.5488				0.57%
Sc RADIAL	6232.6	96.9	%	0.66				0.68%
Y 371.029	485947.4	93.311	%	0.5056				0.54%
Ag 328.068†	-477.2	0.0161	µg/L	0.34144	0.0161	ppb	0.34144	>999.9%
Al 396.153Radial†	22.6	21.470	µg/L	13.9199	21.470	ppb	13.9199	64.83%
As 188.979†	11.8	10.625	µg/L	4.2131	10.625	ppb	4.2131	39.65%
B 249.677†	18084.5	599.36	µg/L	6.434	599.36	ppb	6.434	1.07%
Ba 233.527†	54397.8	577.11	µg/L	7.790	577.11	ppb	7.790	1.35%
Be 313.107†	-1848.8	0.1463	µg/L	0.04566	0.1463	ppb	0.04566	31.21%
Ca 317.933Radial†	111622.3	107430	µg/L	290.3	107430	ppb	290.3	0.27%
Cd 226.502†	44.0	-0.0607	µg/L	0.18721	-0.0607	ppb	0.18721	308.46%
Co 228.616†	92.0	3.0890	µg/L	0.20862	3.0890	ppb	0.20862	6.75%
Cr 267.716†	471.9	11.718	µg/L	0.2628	11.718	ppb	0.2628	2.24%
Cu 324.752†	-499.9	-2.2474	µg/L	0.50184	-2.2474	ppb	0.50184	22.33%
Fe 238.204 Radial†	7364.6	7915.9	µg/L	6.70	7915.9	ppb	6.70	0.08%
K 766.490 Radial†	18094.4	15664	µg/L	56.9	15664	ppb	56.9	0.36%
Mg 279.077 IEC†	7475.4	58689	µg/L	114.7	58689	ppb	114.7	0.20%
Mn 257.610†	93190.9	152.33	µg/L	1.985	152.33	ppb	1.985	1.30%
Mo 202.031†	5.6	0.9928	µg/L	0.20101	0.9928	ppb	0.20101	20.25%
Na 589.592 Radial†	20888.9	123430	µg/L	768.7	123430	ppb	768.7	0.62%

Ni 231.604†	770.3	29.123	µg/L	0.3161	29.123	ppb	0.3161	1.09%
P 214.914†	108.2	95.923	µg/L	9.6766	95.923	ppb	9.6766	10.09%
Pb 220.353†	-78.3	-8.3106	µg/L	1.11780	-8.3106	ppb	1.11780	13.45%
S 181.975 Axial†	3619.5	9911.8	µg/L	49.89	9911.8	ppb	49.89	0.50%
Sb 206.836†	1.6	0.2067	µg/L	3.75558	0.2067	ppb	3.75558	>999.9%
Se 196.026†	-3.6	1.3691	µg/L	10.50819	1.3691	ppb	10.50819	767.51%
SiO2†	199255.4	25209	µg/L	316.9	25209	ppb	316.9	1.26%
Si 251.611†	207157.7	11682	µg/L	151.4	11682	ppb	151.4	1.30%
Sn 189.927†	-214.0	-35.780	µg/L	0.6289	-35.780	ppb	0.6289	1.76%
Sr 421.552†	55997.1	822.19	µg/L	2.972	822.19	ppb	2.972	0.36%
Ti 334.940†	-1231.2	0.2968	µg/L	0.04947	0.2968	ppb	0.04947	16.67%
Tl 190.801†	-12.1	-5.9508	µg/L	0.56722	-5.9508	ppb	0.56722	9.53%
U 367.007†	165.4	-5.993	µg/L	8.4604	-5.993	ppb	8.4604	141.16%
V 292.402†	990.2	10.139	µg/L	0.3332	10.139	ppb	0.3332	3.29%
Zn 213.857†	225.9	0.8431	µg/L	0.20627	0.8431	ppb	0.20627	24.46%

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Sequence No.: 10 **Autosampler Location: 308**
Sample ID: 335304003|1339673|1 **Date Collected: 11/5/2013 12:54:38**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304003|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6325.6	6325.6	98.3	%			12:55:11
1	Al 396.153Radial†	-125.2	47.9	42.291	µg/L	42.291	ppb	12:55:11
1	Ca 317.933Radial†	250657.6	254913.9	245350	µg/L	245350	ppb	12:55:06
1	Fe 238.204 Radial†	28071.3	28513.2	30648	µg/L	30648	ppb	12:55:11
1	K 766.490 Radial†	32611.8	32510.1	28049	µg/L	28049	ppb	12:55:11
1	Mg 279.077 IEC†	9072.2	9219.7	72383	µg/L	72383	ppb	12:55:11
1	Na 589.592 Radial†	66244.2	67564.5	399240	µg/L	399240	ppb	12:55:11
1	Sr 421.552†	59201.2	61103.7	896.55	µg/L	896.55	ppb	12:55:11
1	Sc 361.383	518683.5	518683.5	91.500	%			12:55:38
1	Y 371.029	458391.7	458391.7	88.019	%			12:55:38
1	Ag 328.068†	-1718.1	-1630.8	-0.4595	µg/L	-0.4595	ppb	12:55:38
1	As 188.979†	-7.3	4.4	6.5535	µg/L	6.5535	ppb	12:55:58
1	B 249.677†	42087.5	45771.5	1521.4	µg/L	1521.4	ppb	12:55:38
1	Ba 233.527†	199032.8	217576.9	2308.3	µg/L	2308.3	ppb	12:55:38
1	Be 313.107†	-9559.6	-4939.4	-0.0342	µg/L	-0.0342	ppb	12:55:38
1	Cd 226.502†	32.5	193.9	0.1103	µg/L	0.1103	ppb	12:55:58
1	Co 228.616†	55.7	176.3	6.6366	µg/L	6.6366	ppb	12:55:58
1	Cr 267.716†	2.0	-78.8	0.4340	µg/L	0.4340	ppb	12:55:58
1	Cu 324.752†	1704.1	-492.4	-1.0989	µg/L	-1.0989	ppb	12:55:38
1	Mn 257.610†	283857.7	309832.6	511.16	µg/L	511.16	ppb	12:55:38
1	Mo 202.031†	1.0	-10.2	0.0643	µg/L	0.0643	ppb	12:55:58
1	Ni 231.604†	230.4	365.1	14.549	µg/L	14.549	ppb	12:55:58
1	P 214.914†	750.7	766.1	699.59	µg/L	699.59	ppb	12:55:58
1	Pb 220.353†	43.8	-122.9	-7.5115	µg/L	-7.5115	ppb	12:55:58
1	S 181.975 Axial†	811.2	834.3	2281.4	µg/L	2281.4	ppb	12:55:58
1	Sb 206.836†	67.4	9.9	3.9710	µg/L	3.9710	ppb	12:55:58
1	Se 196.026†	-60.1	-15.4	-5.1389	µg/L	-5.1389	ppb	12:55:58
1	SiO2†	244983.4	266552.8	33560	µg/L	33560	ppb	12:55:38
1	Si 251.611†	254219.7	277539.6	15579	µg/L	15579	ppb	12:55:38
1	Sn 189.927†	-269.3	-317.4	-27.053	µg/L	-27.053	ppb	12:55:58
1	Ti 334.940†	-3776.9	-3641.8	-1.1133	µg/L	-1.1133	ppb	12:55:38
1	Tl 190.801†	-37.1	-14.4	-6.7633	µg/L	-6.7633	ppb	12:55:58
1	U 367.007†	1112.2	677.8	20.20	µg/L	20.20	ppb	12:55:38
1	V 292.402†	170.7	110.7	1.3973	µg/L	1.3973	ppb	12:55:38
1	Zn 213.857†	1109.3	501.2	1.4418	µg/L	1.4418	ppb	12:55:58
2	Sc RADIAL	6334.7	6334.7	98.5	%			12:55:22
2	Al 396.153Radial†	-92.7	81.2	76.939	µg/L	76.939	ppb	12:55:22
2	Ca 317.933Radial†	250487.3	254373.9	244830	µg/L	244830	ppb	12:55:16
2	Fe 238.204 Radial†	28364.3	28769.7	30923	µg/L	30923	ppb	12:55:22
2	K 766.490 Radial†	32956.3	32812.2	28313	µg/L	28313	ppb	12:55:22
2	Mg 279.077 IEC†	9102.0	9236.6	72516	µg/L	72516	ppb	12:55:22
2	Na 589.592 Radial†	66048.1	67268.3	397490	µg/L	397490	ppb	12:55:22
2	Sr 421.552†	59591.1	61413.0	901.10	µg/L	901.10	ppb	12:55:22
2	Sc 361.383	516085.6	516085.6	91.041	%			12:56:04
2	Y 371.029	455819.4	455819.4	87.525	%			12:56:04
2	Ag 328.068†	-1657.8	-1574.1	-0.0009	µg/L	-0.0009	ppb	12:56:04
2	As 188.979†	-8.2	3.4	5.7186	µg/L	5.7186	ppb	12:56:24
2	B 249.677†	42477.4	46431.2	1543.4	µg/L	1543.4	ppb	12:56:04
2	Ba 233.527†	200819.7	220634.6	2340.7	µg/L	2340.7	ppb	12:56:04
2	Be 313.107†	-9643.5	-5084.2	-0.1188	µg/L	-0.1188	ppb	12:56:04
2	Cd 226.502†	42.4	205.0	0.2626	µg/L	0.2626	ppb	12:56:24
2	Co 228.616†	43.2	162.8	6.2547	µg/L	6.2547	ppb	12:56:24
2	Cr 267.716†	-10.2	-92.2	0.1558	µg/L	0.1558	ppb	12:56:24
2	Cu 324.752†	1856.0	-316.2	-0.1642	µg/L	-0.1642	ppb	12:56:04
2	Mn 257.610†	286578.1	314382.3	518.69	µg/L	518.69	ppb	12:56:04
2	Mo 202.031†	11.7	1.5	1.4700	µg/L	1.4700	ppb	12:56:24
2	Ni 231.604†	239.8	376.7	14.993	µg/L	14.993	ppb	12:56:24
2	P 214.914†	754.3	774.2	706.95	µg/L	706.95	ppb	12:56:24
2	Pb 220.353†	43.1	-123.5	-7.6681	µg/L	-7.6681	ppb	12:56:24

2	S 181.975 Axial†	812.9	840.6	2298.9	µg/L	2298.9	ppb	12:56:24
2	Sb 206.836†	64.2	6.8	2.3504	µg/L	2.3504	ppb	12:56:24
2	Se 196.026†	-49.2	-3.7	17.157	µg/L	17.157	ppb	12:56:24
2	SiO2†	247022.1	270139.9	34014	µg/L	34014	ppb	12:56:04
2	Si 251.611†	256440.5	281377.5	15795	µg/L	15795	ppb	12:56:04
2	Sn 189.927†	-259.5	-308.1	-24.396	µg/L	-24.396	ppb	12:56:24
2	Ti 334.940†	-3734.7	-3616.3	-1.0610	µg/L	-1.0610	ppb	12:56:04
2	Tl 190.801†	-33.3	-10.4	-4.7720	µg/L	-4.7720	ppb	12:56:24
2	U 367.007†	1085.4	654.5	11.09	µg/L	11.09	ppb	12:56:04
2	V 292.402†	176.4	117.9	1.4798	µg/L	1.4798	ppb	12:56:04
2	Zn 213.857†	1107.5	505.3	1.4725	µg/L	1.4725	ppb	12:56:24
3	Sc RADIAL	6190.8	6190.8	96.2	%			12:55:32
3	Al 396.153Radial†	-67.0	105.7	102.37	µg/L	102.37	ppb	12:55:32
3	Ca 317.933Radial†	253846.4	263780.5	253880	µg/L	253880	ppb	12:55:27
3	Fe 238.204 Radial†	28424.3	29501.8	31710	µg/L	31710	ppb	12:55:32
3	K 766.490 Radial†	33111.5	33751.8	29126	µg/L	29126	ppb	12:55:32
3	Mg 279.077 IEC†	9142.1	9493.2	74531	µg/L	74531	ppb	12:55:32
3	Na 589.592 Radial†	65619.8	68382.9	404080	µg/L	404080	ppb	12:55:32
3	Sr 421.552†	59648.0	62879.4	922.60	µg/L	922.60	ppb	12:55:32
3	Sc 361.383	511053.0	511053.0	90.154	%			12:56:29
3	Y 371.029	451515.3	451515.3	86.699	%			12:56:29
3	Ag 328.068†	-1559.7	-1483.1	0.9231	µg/L	0.9231	ppb	12:56:29
3	As 188.979†	-8.4	3.1	5.5495	µg/L	5.5495	ppb	12:56:49
3	B 249.677†	42608.0	47035.6	1563.3	µg/L	1563.3	ppb	12:56:29
3	Ba 233.527†	201564.3	223632.8	2372.5	µg/L	2372.5	ppb	12:56:29
3	Be 313.107†	-9739.5	-5294.9	-0.1374	µg/L	-0.1374	ppb	12:56:29
3	Cd 226.502†	17.1	177.4	-0.2610	µg/L	-0.2610	ppb	12:56:49
3	Co 228.616†	45.6	165.9	6.3651	µg/L	6.3651	ppb	12:56:49
3	Cr 267.716†	-12.3	-94.6	0.1732	µg/L	0.1732	ppb	12:56:49
3	Cu 324.752†	1731.1	-434.7	-0.7542	µg/L	-0.7542	ppb	12:56:29
3	Mn 257.610†	287268.9	318248.3	525.06	µg/L	525.06	ppb	12:56:29
3	Mo 202.031†	6.5	-4.1	0.8347	µg/L	0.8347	ppb	12:56:49
3	Ni 231.604†	230.4	368.9	14.722	µg/L	14.722	ppb	12:56:49
3	P 214.914†	772.6	802.6	733.24	µg/L	733.24	ppb	12:56:49
3	Pb 220.353†	30.5	-137.0	-9.7264	µg/L	-9.7264	ppb	12:56:49
3	S 181.975 Axial†	813.9	850.5	2325.7	µg/L	2325.7	ppb	12:56:49
3	Sb 206.836†	75.2	19.7	9.1433	µg/L	9.1433	ppb	12:56:49
3	Se 196.026†	-55.3	-11.0	3.8521	µg/L	3.8521	ppb	12:56:49
3	SiO2†	247634.1	273490.6	34426	µg/L	34426	ppb	12:56:29
3	Si 251.611†	257009.2	284782.1	15981	µg/L	15981	ppb	12:56:29
3	Sn 189.927†	-263.8	-315.7	-24.041	µg/L	-24.041	ppb	12:56:49
3	Ti 334.940†	-3730.3	-3651.8	-0.8210	µg/L	-0.8210	ppb	12:56:29
3	Tl 190.801†	-37.7	-15.7	-7.4175	µg/L	-7.4175	ppb	12:56:49
3	U 367.007†	1068.5	647.5	2.980	µg/L	2.980	ppb	12:56:29
3	V 292.402†	109.7	45.8	0.7431	µg/L	0.7431	ppb	12:56:29
3	Zn 213.857†	1136.7	549.7	1.9193	µg/L	1.9193	ppb	12:56:49

Mean Data: 335304003|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	515274.0	90.898	%	0.6844				0.75%
Sc RADIAL	6283.7	97.7	%	1.25				1.28%
Y 371.029	455242.1	87.415	%	0.6671				0.76%
Ag 328.068†	-1562.7	0.1542	µg/L	0.70423	0.1542	ppb	0.70423	456.56%
Al 396.153Radial†	78.3	73.867	µg/L	30.1587	73.867	ppb	30.1587	40.83%
As 188.979†	3.6	5.9405	µg/L	0.53751	5.9405	ppb	0.53751	9.05%
B 249.677†	46412.8	1542.7	µg/L	20.94	1542.7	ppb	20.94	1.36%
Ba 233.527†	220614.8	2340.5	µg/L	32.12	2340.5	ppb	32.12	1.37%
Be 313.107†	-5106.2	-0.0968	µg/L	0.05502	-0.0968	ppb	0.05502	56.85%
Ca 317.933Radial†	257689.4	248020	µg/L	5083.8	248020	ppb	5083.8	2.05%
Cd 226.502†	192.1	0.0373	µg/L	0.26936	0.0373	ppb	0.26936	722.19%
Co 228.616†	168.3	6.4188	µg/L	0.19649	6.4188	ppb	0.19649	3.06%
Cr 267.716†	-88.6	0.2544	µg/L	0.15584	0.2544	ppb	0.15584	61.27%
Cu 324.752†	-414.4	-0.6724	µg/L	0.47267	-0.6724	ppb	0.47267	70.29%
Fe 238.204 Radial†	28928.3	31094	µg/L	551.4	31094	ppb	551.4	1.77%
K 766.490 Radial†	33024.7	28496	µg/L	561.2	28496	ppb	561.2	1.97%
Mg 279.077 IEC†	9316.5	73143	µg/L	1203.4	73143	ppb	1203.4	1.65%
Mn 257.610†	314154.4	518.30	µg/L	6.957	518.30	ppb	6.957	1.34%
Mo 202.031†	-4.3	0.7897	µg/L	0.70389	0.7897	ppb	0.70389	89.14%
Na 589.592 Radial†	67738.6	400270	µg/L	3411.5	400270	ppb	3411.5	0.85%

Ni 231.604†	370.2	14.754	µg/L	0.2238	14.754	ppb	0.2238	1.52%
P 214.914†	781.0	713.26	µg/L	17.689	713.26	ppb	17.689	2.48%
Pb 220.353†	-127.8	-8.3020	µg/L	1.23604	-8.3020	ppb	1.23604	14.89%
S 181.975 Axial†	841.8	2302.0	µg/L	22.30	2302.0	ppb	22.30	0.97%
Sb 206.836†	12.1	5.1549	µg/L	3.54781	5.1549	ppb	3.54781	68.82%
Se 196.026†	-10.0	5.2900	µg/L	11.21713	5.2900	ppb	11.21713	212.05%
SiO2†	270061.1	34000	µg/L	432.9	34000	ppb	432.9	1.27%
Si 251.611†	281233.1	15785	µg/L	201.7	15785	ppb	201.7	1.28%
Sn 189.927†	-313.7	-25.163	µg/L	1.6463	-25.163	ppb	1.6463	6.54%
Sr 421.552†	61798.7	906.75	µg/L	13.913	906.75	ppb	13.913	1.53%
Ti 334.940†	-3636.6	-0.9984	µg/L	0.15591	-0.9984	ppb	0.15591	15.62%
Tl 190.801†	-13.5	-6.3176	µg/L	1.37790	-6.3176	ppb	1.37790	21.81%
U 367.007†	659.9	11.42	µg/L	8.616	11.42	ppb	8.616	75.42%
V 292.402†	91.4	1.2068	µg/L	0.40362	1.2068	ppb	0.40362	33.45%
Zn 213.857†	518.7	1.6112	µg/L	0.26726	1.6112	ppb	0.26726	16.59%

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Sequence No.: 11 **Autosampler Location: 309**
Sample ID: 335304004|1339673|1 **Date Collected: 11/5/2013 12:56:57**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304004|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5858.2	5858.2	91.0	%			12:57:30
1	Al 396.153Radial†	-126.8	36.1	28.808	µg/L	28.808	ppb	12:57:30
1	Ca 317.933Radial†	268574.0	294933.2	283870	µg/L	283870	ppb	12:57:25
1	Fe 238.204 Radial†	29577.0	32445.0	34874	µg/L	34874	ppb	12:57:30
1	K 766.490 Radial†	34202.4	36903.5	31851	µg/L	31851	ppb	12:57:30
1	Mg 279.077 IEC†	9543.3	10473.3	82225	µg/L	82225	ppb	12:57:30
1	Na 589.592 Radial†	66375.3	73084.4	431860	µg/L	431860	ppb	12:57:30
1	Sr 421.552†	61292.4	68204.7	1000.7	µg/L	1000.7	ppb	12:57:25
1	Sc 361.383	499998.8	499998.8	88.204	%			12:57:57
1	Y 371.029	442645.7	442645.7	84.996	%			12:57:57
1	Ag 328.068†	-1636.4	-1608.4	1.2234	µg/L	1.2234	ppb	12:57:57
1	As 188.979†	-9.5	1.6	4.6160	µg/L	4.6160	ppb	12:58:17
1	B 249.677†	44207.8	49894.2	1657.7	µg/L	1657.7	ppb	12:57:57
1	Ba 233.527†	209451.5	237517.8	2519.8	µg/L	2519.8	ppb	12:57:57
1	Be 313.107†	-9910.6	-5727.7	-0.0554	µg/L	-0.0554	ppb	12:57:57
1	Cd 226.502†	39.5	203.2	-0.1574	µg/L	-0.1574	ppb	12:58:17
1	Co 228.616†	58.8	182.0	6.9293	µg/L	6.9293	ppb	12:58:17
1	Cr 267.716†	-20.2	-103.9	0.2294	µg/L	0.2294	ppb	12:58:17
1	Cu 324.752†	1688.5	-440.5	-0.6433	µg/L	-0.6433	ppb	12:57:57
1	Mn 257.610†	297593.7	336998.7	555.99	µg/L	555.99	ppb	12:57:57
1	Mo 202.031†	6.4	-4.0	0.9794	µg/L	0.9794	ppb	12:58:17
1	Ni 231.604†	240.6	386.1	15.456	µg/L	15.456	ppb	12:58:17
1	P 214.914†	788.7	839.9	765.88	µg/L	765.88	ppb	12:58:17
1	Pb 220.353†	38.0	-127.7	-5.7840	µg/L	-5.7840	ppb	12:58:17
1	S 181.975 Axial†	848.2	909.4	2486.6	µg/L	2486.6	ppb	12:58:17
1	Sb 206.836†	54.5	-2.0	-2.4171	µg/L	-2.4171	ppb	12:58:17
1	Se 196.026†	-74.2	-33.8	-37.188	µg/L	-37.188	ppb	12:58:17
1	SiO2†	256291.4	289378.5	36402	µg/L	36402	ppb	12:57:57
1	Si 251.611†	266092.9	301383.4	16902	µg/L	16902	ppb	12:57:57
1	Sn 189.927†	-253.6	-310.6	-13.761	µg/L	-13.761	ppb	12:58:17
1	Ti 334.940†	-3959.0	-4002.5	-0.6774	µg/L	-0.6774	ppb	12:57:57
1	Tl 190.801†	-38.7	-17.7	-8.4285	µg/L	-8.4285	ppb	12:58:17
1	U 367.007†	1051.1	654.0	-16.90	µg/L	-16.90	ppb	12:57:57
1	V 292.402†	169.9	116.7	1.4741	µg/L	1.4741	ppb	12:57:57
1	Zn 213.857†	1122.2	561.1	1.4865	µg/L	1.4865	ppb	12:58:17
2	Sc RADIAL	5920.7	5920.7	92.0	%			12:57:40
2	Al 396.153Radial†	-121.3	43.5	36.533	µg/L	36.533	ppb	12:57:40
2	Ca 317.933Radial†	268070.7	291270.5	280340	µg/L	280340	ppb	12:57:35
2	Fe 238.204 Radial†	29702.9	32238.6	34652	µg/L	34652	ppb	12:57:40
2	K 766.490 Radial†	34286.4	36598.0	31586	µg/L	31586	ppb	12:57:40
2	Mg 279.077 IEC†	9582.1	10404.7	81687	µg/L	81687	ppb	12:57:40
2	Na 589.592 Radial†	66912.1	72897.7	430760	µg/L	430760	ppb	12:57:40
2	Sr 421.552†	61381.4	67590.5	991.68	µg/L	991.68	ppb	12:57:35
2	Sc 361.383	498751.6	498751.6	87.984	%			12:58:23
2	Y 371.029	440903.4	440903.4	84.661	%			12:58:23
2	Ag 328.068†	-1711.6	-1698.6	0.5052	µg/L	0.5052	ppb	12:58:23
2	As 188.979†	-4.7	7.1	9.1279	µg/L	9.1279	ppb	12:58:43
2	B 249.677†	44072.0	49865.2	1656.9	µg/L	1656.9	ppb	12:58:23
2	Ba 233.527†	209406.0	238059.9	2525.5	µg/L	2525.5	ppb	12:58:23
2	Be 313.107†	-9944.7	-5794.6	-0.1264	µg/L	-0.1264	ppb	12:58:23
2	Cd 226.502†	25.9	187.9	-0.3825	µg/L	-0.3825	ppb	12:58:43
2	Co 228.616†	68.3	193.0	7.2629	µg/L	7.2629	ppb	12:58:43
2	Cr 267.716†	-4.2	-85.7	0.5934	µg/L	0.5934	ppb	12:58:43
2	Cu 324.752†	1694.9	-428.5	-0.5862	µg/L	-0.5862	ppb	12:58:23
2	Mn 257.610†	297570.7	337816.3	557.34	µg/L	557.34	ppb	12:58:23
2	Mo 202.031†	17.8	8.9	2.4968	µg/L	2.4968	ppb	12:58:43
2	Ni 231.604†	241.4	387.6	15.507	µg/L	15.507	ppb	12:58:43
2	P 214.914†	786.9	840.0	766.20	µg/L	766.20	ppb	12:58:43
2	Pb 220.353†	34.2	-132.0	-6.8720	µg/L	-6.8720	ppb	12:58:43

2	S 181.975 Axial†	836.8	898.8	2457.7	µg/L	2457.7	ppb	12:58:43
2	Sb 206.836†	69.3	15.0	6.5529	µg/L	6.5529	ppb	12:58:43
2	Se 196.026†	-34.8	10.7	47.479	µg/L	47.479	ppb	12:58:43
2	SiO2†	255842.5	289594.8	36436	µg/L	36436	ppb	12:58:23
2	Si 251.611†	265746.2	301743.7	16926	µg/L	16926	ppb	12:58:23
2	Sn 189.927†	-275.6	-336.3	-22.710	µg/L	-22.710	ppb	12:58:43
2	Ti 334.940†	-3935.1	-3986.5	-0.7703	µg/L	-0.7703	ppb	12:58:23
2	Tl 190.801†	-29.2	-7.0	-3.0673	µg/L	-3.0673	ppb	12:58:43
2	U 367.007†	1069.2	677.6	-7.264	µg/L	-7.264	ppb	12:58:23
2	V 292.402†	123.5	64.5	0.9693	µg/L	0.9693	ppb	12:58:23
2	Zn 213.857†	1109.3	549.6	1.3831	µg/L	1.3831	ppb	12:58:43
3	Sc RADIAL	5902.8	5902.8	91.7	%			12:57:51
3	Al 396.153Radial†	-169.6	-9.6	-18.902	µg/L	-18.902	ppb	12:57:51
3	Ca 317.933Radial†	268511.3	292636.0	281660	µg/L	281660	ppb	12:57:46
3	Fe 238.204 Radial†	29505.9	32122.0	34527	µg/L	34527	ppb	12:57:51
3	K 766.490 Radial†	34170.5	36584.9	31574	µg/L	31574	ppb	12:57:51
3	Mg 279.077 IEC†	9494.9	10341.4	81189	µg/L	81189	ppb	12:57:51
3	Na 589.592 Radial†	67005.7	73220.6	432660	µg/L	432660	ppb	12:57:51
3	Sr 421.552†	61495.7	67917.7	996.48	µg/L	996.48	ppb	12:57:46
3	Sc 361.383	499264.9	499264.9	88.074	%			12:58:48
3	Y 371.029	441091.8	441091.8	84.698	%			12:58:48
3	Ag 328.068†	-1574.9	-1541.3	1.5700	µg/L	1.5700	ppb	12:58:48
3	As 188.979†	-15.7	-5.5	-1.3166	µg/L	-1.3166	ppb	12:59:08
3	B 249.677†	44373.9	50156.5	1666.7	µg/L	1666.7	ppb	12:58:48
3	Ba 233.527†	210852.1	239457.1	2540.4	µg/L	2540.4	ppb	12:58:48
3	Be 313.107†	-9926.0	-5761.8	-0.0934	µg/L	-0.0934	ppb	12:58:48
3	Cd 226.502†	39.9	203.7	-0.1141	µg/L	-0.1141	ppb	12:59:08
3	Co 228.616†	77.8	203.7	7.5934	µg/L	7.5934	ppb	12:59:08
3	Cr 267.716†	-31.6	-116.9	-0.1004	µg/L	-0.1004	ppb	12:59:08
3	Cu 324.752†	1696.9	-428.1	-0.5845	µg/L	-0.5845	ppb	12:58:48
3	Mn 257.610†	299681.1	339864.8	560.72	µg/L	560.72	ppb	12:58:48
3	Mo 202.031†	13.9	4.5	1.9667	µg/L	1.9667	ppb	12:59:08
3	Ni 231.604†	245.1	391.5	15.649	µg/L	15.649	ppb	12:59:08
3	P 214.914†	799.4	853.3	778.86	µg/L	778.86	ppb	12:59:08
3	Pb 220.353†	48.0	-116.3	-3.6699	µg/L	-3.6699	ppb	12:59:08
3	S 181.975 Axial†	847.4	909.9	2487.9	µg/L	2487.9	ppb	12:59:08
3	Sb 206.836†	68.4	13.9	6.0260	µg/L	6.0260	ppb	12:59:08
3	Se 196.026†	-71.1	-30.4	-30.907	µg/L	-30.907	ppb	12:59:08
3	SiO2†	257945.2	291683.3	36704	µg/L	36704	ppb	12:58:48
3	Si 251.611†	267833.6	303803.2	17044	µg/L	17044	ppb	12:58:48
3	Sn 189.927†	-255.0	-312.6	-14.992	µg/L	-14.992	ppb	12:59:08
3	Ti 334.940†	-3939.2	-3986.6	-0.7189	µg/L	-0.7189	ppb	12:58:48
3	Tl 190.801†	-41.4	-20.9	-9.9928	µg/L	-9.9928	ppb	12:59:08
3	U 367.007†	1093.3	703.6	1.837	µg/L	1.837	ppb	12:58:48
3	V 292.402†	184.0	133.1	1.6627	µg/L	1.6627	ppb	12:58:48
3	Zn 213.857†	1088.1	524.2	1.0415	µg/L	1.0415	ppb	12:59:08

Mean Data: 335304004|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	499338.4	88.087	%	0.1106				0.13%
Sc RADIAL	5893.9	91.6	%	0.50				0.55%
Y 371.029	441547.0	84.785	%	0.1836				0.22%
Ag 328.068†	-1616.1	1.0995	µg/L	0.54309	1.0995	ppb	0.54309	49.39%
Al 396.153Radial†	23.3	15.479	µg/L	30.0247	15.479	ppb	30.0247	193.97%
As 188.979†	1.1	4.1424	µg/L	5.23830	4.1424	ppb	5.23830	126.45%
B 249.677†	49972.0	1660.4	µg/L	5.44	1660.4	ppb	5.44	0.33%
Ba 233.527†	238344.9	2528.6	µg/L	10.62	2528.6	ppb	10.62	0.42%
Be 313.107†	-5761.4	-0.0917	µg/L	0.03549	-0.0917	ppb	0.03549	38.68%
Ca 317.933Radial†	292946.6	281950	µg/L	1781.6	281950	ppb	1781.6	0.63%
Cd 226.502†	198.2	-0.2180	µg/L	0.14408	-0.2180	ppb	0.14408	66.09%
Co 228.616†	192.9	7.2619	µg/L	0.33207	7.2619	ppb	0.33207	4.57%
Cr 267.716†	-102.2	0.2408	µg/L	0.34707	0.2408	ppb	0.34707	144.14%
Cu 324.752†	-432.4	-0.6047	µg/L	0.03351	-0.6047	ppb	0.03351	5.54%
Fe 238.204 Radial†	32268.6	34684	µg/L	175.8	34684	ppb	175.8	0.51%
K 766.490 Radial†	36695.5	31670	µg/L	156.7	31670	ppb	156.7	0.49%
Mg 279.077 IEC†	10406.5	81701	µg/L	518.2	81701	ppb	518.2	0.63%
Mn 257.610†	338226.6	558.02	µg/L	2.440	558.02	ppb	2.440	0.44%
Mo 202.031†	3.1	1.8143	µg/L	0.77007	1.8143	ppb	0.77007	42.44%
Na 589.592 Radial†	73067.6	431760	µg/L	958.0	431760	ppb	958.0	0.22%

Ni 231.604†	388.4	15.538	µg/L	0.1002	15.538	ppb	0.1002	0.64%
P 214.914†	844.4	770.31	µg/L	7.401	770.31	ppb	7.401	0.96%
Pb 220.353†	-125.3	-5.4420	µg/L	1.62824	-5.4420	ppb	1.62824	29.92%
S 181.975 Axial†	906.0	2477.4	µg/L	17.05	2477.4	ppb	17.05	0.69%
Sb 206.836†	9.0	3.3873	µg/L	5.03367	3.3873	ppb	5.03367	148.60%
Se 196.026†	-17.8	-6.8721	µg/L	47.17373	-6.8721	ppb	47.17373	686.45%
SiO2†	290218.9	36514	µg/L	165.6	36514	ppb	165.6	0.45%
Si 251.611†	302310.1	16957	µg/L	75.8	16957	ppb	75.8	0.45%
Sn 189.927†	-319.8	-17.154	µg/L	4.8510	-17.154	ppb	4.8510	28.28%
Sr 421.552†	67904.3	996.29	µg/L	4.507	996.29	ppb	4.507	0.45%
Ti 334.940†	-3991.9	-0.7222	µg/L	0.04656	-0.7222	ppb	0.04656	6.45%
Tl 190.801†	-15.2	-7.1629	µg/L	3.63209	-7.1629	ppb	3.63209	50.71%
U 367.007†	678.4	-7.442	µg/L	9.3693	-7.442	ppb	9.3693	125.90%
V 292.402†	104.8	1.3687	µg/L	0.35849	1.3687	ppb	0.35849	26.19%
Zn 213.857†	545.0	1.3037	µg/L	0.23288	1.3037	ppb	0.23288	17.86%

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Sequence No.: 12 **Autosampler Location: 310**
Sample ID: 335304005|1339673|1 **Date Collected: 11/5/2013 12:59:16**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304005|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5724.9	5724.9	89.0	%			12:59:49
1	Al 396.153Radial†	-64.3	103.1	102.51	µg/L	102.51	ppb	12:59:49
1	Ca 317.933Radial†	46706.7	52446.0	50465	µg/L	50465	ppb	12:59:49
1	Fe 238.204 Radial†	14976.6	16791.9	18049	µg/L	18049	ppb	12:59:49
1	K 766.490 Radial†	283966.8	318484.4	276530	µg/L	276530	ppb	12:59:44
1	Mg 279.077 IEC†	7492.7	8412.7	66047	µg/L	66047	ppb	12:59:49
1	Na 589.592 Radial†	95996.6	108072.2	638600	µg/L	638600	ppb	12:59:44
1	Sr 421.552†	19867.7	23215.1	340.83	µg/L	340.83	ppb	12:59:49
1	Sc 361.383	494508.0	494508.0	87.235	%			13:00:16
1	Y 371.029	437354.8	437354.8	83.980	%			13:00:16
1	Ag 328.068†	-869.4	-749.8	0.2235	µg/L	0.2235	ppb	13:00:16
1	As 188.979†	15.9	30.6	27.113	µg/L	27.113	ppb	13:00:36
1	B 249.677†	87818.1	100442.5	3240.5	µg/L	3240.5	ppb	13:00:16
1	Ba 233.527†	49725.5	57056.0	605.10	µg/L	605.10	ppb	13:00:16
1	Be 313.107†	-6211.6	-1612.2	-0.3079	µg/L	-0.3079	ppb	13:00:16
1	Cd 226.502†	-49.4	101.8	-0.1128	µg/L	-0.1128	ppb	13:00:36
1	Co 228.616†	275.4	431.0	13.175	µg/L	13.175	ppb	13:00:36
1	Cr 267.716†	258.7	215.6	6.6112	µg/L	6.6112	ppb	13:00:36
1	Cu 324.752†	2900.8	970.5	5.9884	µg/L	5.9884	ppb	13:00:16
1	Mn 257.610†	79707.0	90975.1	149.27	µg/L	149.27	ppb	13:00:16
1	Mo 202.031†	26.7	19.3	3.0378	µg/L	3.0378	ppb	13:00:36
1	Ni 231.604†	1524.9	1861.3	70.331	µg/L	70.331	ppb	13:00:36
1	P 214.914†	5612.5	6379.4	6016.6	µg/L	6016.6	ppb	13:00:36
1	Pb 220.353†	164.7	18.1	6.5836	µg/L	6.5836	ppb	13:00:36
1	S 181.975 Axial†	1451.1	1611.2	4414.4	µg/L	4414.4	ppb	13:00:36
1	Sb 206.836†	67.7	13.9	6.6653	µg/L	6.6653	ppb	13:00:36
1	Se 196.026†	-57.9	-16.0	-15.095	µg/L	-15.095	ppb	13:00:36
1	SiO2†	282049.0	322131.6	34993	µg/L	34993	ppb	13:00:16
1	Si 251.611†	293104.5	335697.3	16273	µg/L	16273	ppb	13:00:16
1	Sn 189.927†	4.4	-18.1	4.6173	µg/L	4.6173	ppb	13:00:36
1	Ti 334.940†	2074.1	2863.5	9.1874	µg/L	9.1874	ppb	13:00:16
1	Tl 190.801†	-33.4	-12.2	-5.8832	µg/L	-5.8832	ppb	13:00:36
1	U 367.007†	807.9	388.5	20.42	µg/L	20.42	ppb	13:00:16
1	V 292.402†	378.2	357.6	3.8204	µg/L	3.8204	ppb	13:00:16
1	Zn 213.857†	3696.7	3526.4	44.897	µg/L	44.897	ppb	13:00:36
2	Sc RADIAL	5772.8	5772.8	89.7	%			13:00:00
2	Al 396.153Radial†	-105.8	57.4	54.743	µg/L	54.743	ppb	13:00:00
2	Ca 317.933Radial†	46940.6	52271.8	50297	µg/L	50297	ppb	13:00:00
2	Fe 238.204 Radial†	15101.6	16791.8	18049	µg/L	18049	ppb	13:00:00
2	K 766.490 Radial†	286682.5	318866.9	276860	µg/L	276860	ppb	12:59:55
2	Mg 279.077 IEC†	7567.1	8425.7	66150	µg/L	66150	ppb	13:00:00
2	Na 589.592 Radial†	98287.2	109731.3	648410	µg/L	648410	ppb	12:59:55
2	Sr 421.552†	20029.8	23210.8	340.77	µg/L	340.77	ppb	13:00:00
2	Sc 361.383	500797.7	500797.7	88.345	%			13:00:42
2	Y 371.029	442847.0	442847.0	85.035	%			13:00:42
2	Ag 328.068†	-905.9	-778.6	0.0260	µg/L	0.0260	ppb	13:00:42
2	As 188.979†	7.2	20.5	18.738	µg/L	18.738	ppb	13:01:02
2	B 249.677†	88972.9	100485.2	3241.8	µg/L	3241.8	ppb	13:00:42
2	Ba 233.527†	50209.1	56887.4	603.31	µg/L	603.31	ppb	13:00:42
2	Be 313.107†	-6220.7	-1533.1	-0.2670	µg/L	-0.2670	ppb	13:00:42
2	Cd 226.502†	-64.3	85.7	-0.3731	µg/L	-0.3731	ppb	13:01:02
2	Co 228.616†	280.8	433.3	13.240	µg/L	13.240	ppb	13:01:02
2	Cr 267.716†	234.2	184.1	5.9369	µg/L	5.9369	ppb	13:01:02
2	Cu 324.752†	2883.1	908.6	5.6636	µg/L	5.6636	ppb	13:00:42
2	Mn 257.610†	80381.8	90591.4	148.64	µg/L	148.64	ppb	13:00:42
2	Mo 202.031†	27.9	20.3	3.1547	µg/L	3.1547	ppb	13:01:02
2	Ni 231.604†	1519.2	1832.9	69.267	µg/L	69.267	ppb	13:01:02
2	P 214.914†	5618.1	6304.9	5946.2	µg/L	5946.2	ppb	13:01:02
2	Pb 220.353†	156.9	6.8	4.3669	µg/L	4.3669	ppb	13:01:02

2	S 181.975 Axial†	1453.0	1592.4	4363.1	µg/L	4363.1	ppb	13:01:02
2	Sb 206.836†	64.9	9.7	4.4841	µg/L	4.4841	ppb	13:01:02
2	Se 196.026†	-54.7	-11.7	-6.7597	µg/L	-6.7597	ppb	13:01:02
2	SiO2†	284889.8	321286.3	34877	µg/L	34877	ppb	13:00:42
2	Si 251.611†	295783.5	334509.8	16202	µg/L	16202	ppb	13:00:42
2	Sn 189.927†	5.5	-16.8	4.9360	µg/L	4.9360	ppb	13:01:02
2	Ti 334.940†	2224.7	3004.1	9.5641	µg/L	9.5641	ppb	13:00:42
2	Tl 190.801†	-38.9	-17.8	-8.7060	µg/L	-8.7060	ppb	13:01:02
2	U 367.007†	823.4	394.4	22.43	µg/L	22.43	ppb	13:00:42
2	V 292.402†	409.5	387.6	4.1247	µg/L	4.1247	ppb	13:00:42
2	Zn 213.857†	3682.0	3456.5	43.954	µg/L	43.954	ppb	13:01:02
3	Sc RADIAL	5774.2	5774.2	89.7	%			13:00:10
3	Al 396.153Radial†	-101.0	62.8	60.354	µg/L	60.354	ppb	13:00:10
3	Ca 317.933Radial†	46747.1	52043.4	50078	µg/L	50078	ppb	13:00:10
3	Fe 238.204 Radial†	15010.8	16686.5	17936	µg/L	17936	ppb	13:00:10
3	K 766.490 Radial†	288034.2	320294.9	278110	µg/L	278110	ppb	13:00:05
3	Mg 279.077 IEC†	7536.7	8389.9	65868	µg/L	65868	ppb	13:00:10
3	Na 589.592 Radial†	97442.3	108763.0	642680	µg/L	642680	ppb	13:00:05
3	Sr 421.552†	19900.9	23061.7	338.58	µg/L	338.58	ppb	13:00:10
3	Sc 361.383	491310.3	491310.3	86.671	%			13:01:07
3	Y 371.029	434345.2	434345.2	83.402	%			13:01:07
3	Ag 328.068†	-830.2	-711.0	0.4572	µg/L	0.4572	ppb	13:01:07
3	As 188.979†	9.6	23.4	21.147	µg/L	21.147	ppb	13:01:27
3	B 249.677†	87335.9	100541.3	3243.1	µg/L	3243.1	ppb	13:01:07
3	Ba 233.527†	49354.0	56998.3	604.49	µg/L	604.49	ppb	13:01:07
3	Be 313.107†	-6157.7	-1596.4	-0.3057	µg/L	-0.3057	ppb	13:01:07
3	Cd 226.502†	-44.8	106.7	-0.0220	µg/L	-0.0220	ppb	13:01:27
3	Co 228.616†	266.4	422.8	12.929	µg/L	12.929	ppb	13:01:27
3	Cr 267.716†	256.7	215.2	6.6025	µg/L	6.6025	ppb	13:01:27
3	Cu 324.752†	2898.1	989.0	6.0735	µg/L	6.0735	ppb	13:01:07
3	Mn 257.610†	78959.4	90707.3	148.83	µg/L	148.83	ppb	13:01:07
3	Mo 202.031†	34.3	28.2	4.0879	µg/L	4.0879	ppb	13:01:27
3	Ni 231.604†	1476.7	1817.0	68.668	µg/L	68.668	ppb	13:01:27
3	P 214.914†	5527.0	6322.6	5963.0	µg/L	5963.0	ppb	13:01:27
3	Pb 220.353†	168.4	23.5	7.6625	µg/L	7.6625	ppb	13:01:27
3	S 181.975 Axial†	1432.7	1600.8	4386.0	µg/L	4386.0	ppb	13:01:27
3	Sb 206.836†	77.4	25.6	12.848	µg/L	12.848	ppb	13:01:27
3	Se 196.026†	-45.6	-2.4	10.782	µg/L	10.782	ppb	13:01:27
3	SiO2†	279660.9	321480.5	34874	µg/L	34874	ppb	13:01:07
3	Si 251.611†	290296.9	334644.7	16196	µg/L	16196	ppb	13:01:07
3	Sn 189.927†	7.5	-14.4	5.6373	µg/L	5.6373	ppb	13:01:27
3	Ti 334.940†	2137.2	2951.9	9.4207	µg/L	9.4207	ppb	13:01:07
3	Tl 190.801†	-32.6	-11.5	-5.5397	µg/L	-5.5397	ppb	13:01:27
3	U 367.007†	774.2	355.6	10.13	µg/L	10.13	ppb	13:01:07
3	V 292.402†	398.6	384.0	4.0901	µg/L	4.0901	ppb	13:01:07
3	Zn 213.857†	3662.9	3515.0	44.768	µg/L	44.768	ppb	13:01:27

Mean Data: 335304005|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	495538.7	87.417	%	0.8515				0.97%
Sc RADIAL	5757.3	89.5	%	0.44				0.49%
Y 371.029	438182.3	84.139	%	0.8278				0.98%
Ag 328.068†	-746.5	0.2356	µg/L	0.21581	0.2356	ppb	0.21581	91.61%
Al 396.153Radial†	74.4	72.535	µg/L	26.1077	72.535	ppb	26.1077	35.99%
As 188.979†	24.8	22.333	µg/L	4.3118	22.333	ppb	4.3118	19.31%
B 249.677†	100489.6	3241.8	µg/L	1.29	3241.8	ppb	1.29	0.04%
Ba 233.527†	56980.5	604.30	µg/L	0.909	604.30	ppb	0.909	0.15%
Be 313.107†	-1580.6	-0.2935	µg/L	0.02299	-0.2935	ppb	0.02299	7.83%
Ca 317.933Radial†	52253.7	50280	µg/L	194.3	50280	ppb	194.3	0.39%
Cd 226.502†	98.0	-0.1693	µg/L	0.18226	-0.1693	ppb	0.18226	107.66%
Co 228.616†	429.0	13.115	µg/L	0.1641	13.115	ppb	0.1641	1.25%
Cr 267.716†	204.9	6.3835	µg/L	0.38679	6.3835	ppb	0.38679	6.06%
Cu 324.752†	956.1	5.9085	µg/L	0.21634	5.9085	ppb	0.21634	3.66%
Fe 238.204 Radial†	16756.8	18011	µg/L	65.4	18011	ppb	65.4	0.36%
K 766.490 Radial†	319215.4	277170	µg/L	829.2	277170	ppb	829.2	0.30%
Mg 279.077 IEC†	8409.4	66022	µg/L	142.5	66022	ppb	142.5	0.22%
Mn 257.610†	90757.9	148.91	µg/L	0.327	148.91	ppb	0.327	0.22%
Mo 202.031†	22.6	3.4268	µg/L	0.57553	3.4268	ppb	0.57553	16.79%
Na 589.592 Radial†	108855.5	643230	µg/L	4924.6	643230	ppb	4924.6	0.77%

Ni 231.604†	1837.1	69.422	µg/L	0.8423	69.422	ppb	0.8423	1.21%
P 214.914†	6335.6	5975.3	µg/L	36.76	5975.3	ppb	36.76	0.62%
Pb 220.353†	16.1	6.2043	µg/L	1.68021	6.2043	ppb	1.68021	27.08%
S 181.975 Axial†	1601.5	4387.8	µg/L	25.70	4387.8	ppb	25.70	0.59%
Sb 206.836†	16.4	7.9990	µg/L	4.33842	7.9990	ppb	4.33842	54.24%
Se 196.026†	-10.0	-3.6909	µg/L	13.20864	-3.6909	ppb	13.20864	357.87%
SiO2†	321632.8	34915	µg/L	68.1	34915	ppb	68.1	0.20%
Si 251.611†	334950.6	16224	µg/L	42.9	16224	ppb	42.9	0.26%
Sn 189.927†	-16.4	5.0635	µg/L	0.52182	5.0635	ppb	0.52182	10.31%
Sr 421.552†	23162.5	340.06	µg/L	1.283	340.06	ppb	1.283	0.38%
Ti 334.940†	2939.8	9.3907	µg/L	0.19014	9.3907	ppb	0.19014	2.02%
Tl 190.801†	-13.8	-6.7096	µg/L	1.73743	-6.7096	ppb	1.73743	25.89%
U 367.007†	379.5	17.66	µg/L	6.598	17.66	ppb	6.598	37.36%
V 292.402†	376.4	4.0117	µg/L	0.16659	4.0117	ppb	0.16659	4.15%
Zn 213.857†	3499.3	44.540	µg/L	0.5110	44.540	ppb	0.5110	1.15%

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Sequence No.: 13 **Autosampler Location: 311**
Sample ID: 335304006|1339673|1 **Date Collected: 11/5/2013 13:01:35**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304006|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5697.2	5697.2	88.5	%			13:02:08
1	Al 396.153Radial†	-98.1	64.6	63.210	µg/L	63.210	ppb	13:02:08
1	Ca 317.933Radial†	44598.8	50321.2	48420	µg/L	48420	ppb	13:02:08
1	Fe 238.204 Radial†	12693.3	14295.3	15366	µg/L	15366	ppb	13:02:08
1	K 766.490 Radial†	279844.2	315383.8	273830	µg/L	273830	ppb	13:02:03
1	Mg 279.077 IEC†	7191.2	8113.2	63696	µg/L	63696	ppb	13:02:08
1	Na 589.592 Radial†	96678.0	109367.5	646260	µg/L	646260	ppb	13:02:03
1	Sr 421.552†	18999.5	22343.4	328.04	µg/L	328.04	ppb	13:02:08
1	Sc 361.383	488042.2	488042.2	86.094	%			13:02:35
1	Y 371.029	431536.2	431536.2	82.863	%			13:02:35
1	Ag 328.068†	-845.2	-734.8	-0.4112	µg/L	-0.4112	ppb	13:02:35
1	As 188.979†	10.1	24.2	21.532	µg/L	21.532	ppb	13:02:55
1	B 249.677†	87352.8	101235.7	3268.7	µg/L	3268.7	ppb	13:02:35
1	Ba 233.527†	47128.1	54794.2	581.15	µg/L	581.15	ppb	13:02:35
1	Be 313.107†	-6080.1	-1553.8	-0.3032	µg/L	-0.3032	ppb	13:02:35
1	Cd 226.502†	-65.8	81.9	-0.1784	µg/L	-0.1784	ppb	13:02:55
1	Co 228.616†	146.6	285.6	8.8269	µg/L	8.8269	ppb	13:02:55
1	Cr 267.716†	246.1	204.9	6.2848	µg/L	6.2848	ppb	13:02:55
1	Cu 324.752†	1888.0	-161.9	-0.1083	µg/L	-0.1083	ppb	13:02:35
1	Mn 257.610†	68556.2	79233.8	129.76	µg/L	129.76	ppb	13:02:35
1	Mo 202.031†	10.8	1.3	0.7889	µg/L	0.7889	ppb	13:02:55
1	Ni 231.604†	861.5	1113.9	42.218	µg/L	42.218	ppb	13:02:55
1	P 214.914†	4983.7	5734.2	5409.0	µg/L	5409.0	ppb	13:02:55
1	Pb 220.353†	131.2	-18.4	-0.7290	µg/L	-0.7290	ppb	13:02:55
1	S 181.975 Axial†	1421.9	1599.3	4381.6	µg/L	4381.6	ppb	13:02:55
1	Sb 206.836†	69.6	17.1	8.3862	µg/L	8.3862	ppb	13:02:55
1	Se 196.026†	-60.4	-19.8	-24.286	µg/L	-24.286	ppb	13:02:55
1	SiO2†	275905.2	319278.9	34689	µg/L	34689	ppb	13:02:35
1	Si 251.611†	286141.7	332061.2	16094	µg/L	16094	ppb	13:02:35
1	Sn 189.927†	-16.5	-42.3	-3.0163	µg/L	-3.0163	ppb	13:02:55
1	Ti 334.940†	1457.1	2178.5	7.2646	µg/L	7.2646	ppb	13:02:35
1	Tl 190.801†	-38.0	-18.0	-8.8219	µg/L	-8.8219	ppb	13:02:55
1	U 367.007†	731.9	312.4	9.634	µg/L	9.634	ppb	13:02:35
1	V 292.402†	389.2	376.2	3.9552	µg/L	3.9552	ppb	13:02:35
1	Zn 213.857†	1342.3	847.9	8.9720	µg/L	8.9720	ppb	13:02:55
2	Sc RADIAL	5677.3	5677.3	88.2	%			13:02:19
2	Al 396.153Radial†	-126.9	31.5	28.594	µg/L	28.594	ppb	13:02:19
2	Ca 317.933Radial†	44340.3	50204.5	48308	µg/L	48308	ppb	13:02:19
2	Fe 238.204 Radial†	12638.3	14283.1	15352	µg/L	15352	ppb	13:02:19
2	K 766.490 Radial†	282026.9	318963.5	276940	µg/L	276940	ppb	13:02:14
2	Mg 279.077 IEC†	7185.8	8135.5	63871	µg/L	63871	ppb	13:02:19
2	Na 589.592 Radial†	98131.3	111396.6	658250	µg/L	658250	ppb	13:02:14
2	Sr 421.552†	18994.4	22412.8	329.06	µg/L	329.06	ppb	13:02:19
2	Sc 361.383	488596.5	488596.5	86.192	%			13:03:01
2	Y 371.029	432201.5	432201.5	82.990	%			13:03:01
2	Ag 328.068†	-785.0	-663.9	0.0706	µg/L	0.0706	ppb	13:03:01
2	As 188.979†	2.4	15.1	14.036	µg/L	14.036	ppb	13:03:21
2	B 249.677†	88112.1	102001.5	3293.0	µg/L	3293.0	ppb	13:03:01
2	Ba 233.527†	47463.5	55121.2	584.62	µg/L	584.62	ppb	13:03:01
2	Be 313.107†	-6072.2	-1536.7	-0.2898	µg/L	-0.2898	ppb	13:03:01
2	Cd 226.502†	-70.3	76.9	-0.2586	µg/L	-0.2586	ppb	13:03:21
2	Co 228.616†	153.8	293.8	9.0744	µg/L	9.0744	ppb	13:03:21
2	Cr 267.716†	225.5	180.6	5.7512	µg/L	5.7512	ppb	13:03:21
2	Cu 324.752†	2032.6	3.4	0.7772	µg/L	0.7772	ppb	13:03:01
2	Mn 257.610†	68861.0	79497.2	130.19	µg/L	130.19	ppb	13:03:01
2	Mo 202.031†	15.3	6.5	1.4063	µg/L	1.4063	ppb	13:03:21
2	Ni 231.604†	848.2	1097.3	41.596	µg/L	41.596	ppb	13:03:21
2	P 214.914†	4943.2	5680.7	5358.3	µg/L	5358.3	ppb	13:03:21
2	Pb 220.353†	139.6	-8.9	1.1580	µg/L	1.1580	ppb	13:03:21

2	S 181.975 Axial†	1420.7	1596.0	4372.6	µg/L	4372.6	ppb	13:03:21
2	Sb 206.836†	67.9	15.0	7.3356	µg/L	7.3356	ppb	13:03:21
2	Se 196.026†	-54.2	-12.5	-10.237	µg/L	-10.237	ppb	13:03:21
2	SiO2†	277249.6	320475.0	34771	µg/L	34771	ppb	13:03:01
2	Si 251.611†	287774.4	333578.5	16147	µg/L	16147	ppb	13:03:01
2	Sn 189.927†	-13.9	-39.2	-2.1355	µg/L	-2.1355	ppb	13:03:21
2	Ti 334.940†	1446.2	2163.8	7.2061	µg/L	7.2061	ppb	13:03:01
2	Tl 190.801†	-28.6	-7.0	-3.3178	µg/L	-3.3178	ppb	13:03:21
2	U 367.007†	802.6	393.5	36.64	µg/L	36.64	ppb	13:03:01
2	V 292.402†	380.8	365.9	3.8790	µg/L	3.8790	ppb	13:03:01
2	Zn 213.857†	1374.6	883.6	9.4603	µg/L	9.4603	ppb	13:03:21
3	Sc RADIAL	5712.9	5712.9	88.8	%			13:02:29
3	Al 396.153Radial†	-102.7	59.6	58.005	µg/L	58.005	ppb	13:02:29
3	Ca 317.933Radial†	44610.1	50195.6	48300	µg/L	48300	ppb	13:02:29
3	Fe 238.204 Radial†	12677.2	14237.7	15304	µg/L	15304	ppb	13:02:29
3	K 766.490 Radial†	282719.4	317753.2	275890	µg/L	275890	ppb	13:02:24
3	Mg 279.077 IEC†	7200.1	8100.9	63600	µg/L	63600	ppb	13:02:29
3	Na 589.592 Radial†	98290.9	110883.9	655220	µg/L	655220	ppb	13:02:24
3	Sr 421.552†	19094.8	22391.8	328.75	µg/L	328.75	ppb	13:02:29
3	Sc 361.383	485081.6	485081.6	85.572	%			13:03:26
3	Y 371.029	429213.0	429213.0	82.417	%			13:03:26
3	Ag 328.068†	-922.1	-830.7	-1.0867	µg/L	-1.0867	ppb	13:03:26
3	As 188.979†	-2.2	9.8	9.5866	µg/L	9.5866	ppb	13:03:46
3	B 249.677†	87381.9	101889.0	3289.7	µg/L	3289.7	ppb	13:03:26
3	Ba 233.527†	47047.1	55033.6	583.69	µg/L	583.69	ppb	13:03:26
3	Be 313.107†	-6172.1	-1704.4	-0.3882	µg/L	-0.3882	ppb	13:03:26
3	Cd 226.502†	-86.0	57.9	-0.5607	µg/L	-0.5607	ppb	13:03:46
3	Co 228.616†	153.1	294.3	9.0899	µg/L	9.0899	ppb	13:03:46
3	Cr 267.716†	216.2	171.6	5.5739	µg/L	5.5739	ppb	13:03:46
3	Cu 324.752†	1897.9	-136.9	0.0107	µg/L	0.0107	ppb	13:03:26
3	Mn 257.610†	68224.1	79331.8	129.92	µg/L	129.92	ppb	13:03:26
3	Mo 202.031†	19.8	11.8	2.0363	µg/L	2.0363	ppb	13:03:46
3	Ni 231.604†	857.9	1115.8	42.287	µg/L	42.287	ppb	13:03:46
3	P 214.914†	4947.3	5727.1	5402.2	µg/L	5402.2	ppb	13:03:46
3	Pb 220.353†	126.5	-22.9	-1.6163	µg/L	-1.6163	ppb	13:03:46
3	S 181.975 Axial†	1400.1	1583.9	4339.3	µg/L	4339.3	ppb	13:03:46
3	Sb 206.836†	65.3	12.6	6.0338	µg/L	6.0338	ppb	13:03:46
3	Se 196.026†	-55.5	-14.5	-14.299	µg/L	-14.299	ppb	13:03:46
3	SiO2†	274629.2	319743.6	34701	µg/L	34701	ppb	13:03:26
3	Si 251.611†	285494.0	333332.8	16144	µg/L	16144	ppb	13:03:26
3	Sn 189.927†	-11.4	-36.4	-1.2525	µg/L	-1.2525	ppb	13:03:46
3	Ti 334.940†	1338.5	2050.1	6.9163	µg/L	6.9163	ppb	13:03:26
3	Tl 190.801†	-34.2	-13.8	-6.7637	µg/L	-6.7637	ppb	13:03:46
3	U 367.007†	690.8	269.5	-4.325	µg/L	-4.325	ppb	13:03:26
3	V 292.402†	396.8	387.8	4.0732	µg/L	4.0732	ppb	13:03:26
3	Zn 213.857†	1352.9	869.8	9.2751	µg/L	9.2751	ppb	13:03:46

Mean Data: 335304006|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	487240.1	85.953	%	0.3334				0.39%
Sc RADIAL	5695.8	88.5	%	0.28				0.31%
Y 371.029	430983.6	82.757	%	0.3013				0.36%
Ag 328.068†	-743.1	-0.4757	µg/L	0.58132	-0.4757	ppb	0.58132	122.19%
Al 396.153Radial†	51.9	49.936	µg/L	18.6656	49.936	ppb	18.6656	37.38%
As 188.979†	16.4	15.052	µg/L	6.0369	15.052	ppb	6.0369	40.11%
B 249.677†	101708.7	3283.8	µg/L	13.15	3283.8	ppb	13.15	0.40%
Ba 233.527†	54983.0	583.15	µg/L	1.796	583.15	ppb	1.796	0.31%
Be 313.107†	-1598.3	-0.3271	µg/L	0.05335	-0.3271	ppb	0.05335	16.31%
Ca 317.933Radial†	50240.4	48343	µg/L	67.5	48343	ppb	67.5	0.14%
Cd 226.502†	72.3	-0.3326	µg/L	0.20161	-0.3326	ppb	0.20161	60.62%
Co 228.616†	291.2	8.9971	µg/L	0.14758	8.9971	ppb	0.14758	1.64%
Cr 267.716†	185.7	5.8700	µg/L	0.37000	5.8700	ppb	0.37000	6.30%
Cu 324.752†	-98.5	0.2266	µg/L	0.48057	0.2266	ppb	0.48057	212.12%
Fe 238.204 Radial†	14272.1	15341	µg/L	32.6	15341	ppb	32.6	0.21%
K 766.490 Radial†	317366.8	275560	µg/L	1579.8	275560	ppb	1579.8	0.57%
Mg 279.077 IEC†	8116.5	63722	µg/L	137.6	63722	ppb	137.6	0.22%
Mn 257.610†	79354.3	129.95	µg/L	0.216	129.95	ppb	0.216	0.17%
Mo 202.031†	6.5	1.4105	µg/L	0.62368	1.4105	ppb	0.62368	44.22%
Na 589.592 Radial†	110549.4	653240	µg/L	6234.7	653240	ppb	6234.7	0.95%

Ni 231.604†	1109.0	42.033	µg/L	0.3808	42.033	ppb	0.3808	0.91%
P 214.914†	5714.0	5389.8	µg/L	27.51	5389.8	ppb	27.51	0.51%
Pb 220.353†	-16.7	-0.3957	µg/L	1.41685	-0.3957	ppb	1.41685	358.03%
S 181.975 Axial†	1593.1	4364.5	µg/L	22.27	4364.5	ppb	22.27	0.51%
Sb 206.836†	14.9	7.2519	µg/L	1.17842	7.2519	ppb	1.17842	16.25%
Se 196.026†	-15.6	-16.274	µg/L	7.2299	-16.274	ppb	7.2299	44.43%
SiO2†	319832.5	34720	µg/L	44.5	34720	ppb	44.5	0.13%
Si 251.611†	332990.8	16128	µg/L	30.3	16128	ppb	30.3	0.19%
Sn 189.927†	-39.3	-2.1347	µg/L	0.88189	-2.1347	ppb	0.88189	41.31%
Sr 421.552†	22382.7	328.61	µg/L	0.523	328.61	ppb	0.523	0.16%
Ti 334.940†	2130.8	7.1290	µg/L	0.18651	7.1290	ppb	0.18651	2.62%
Tl 190.801†	-12.9	-6.3011	µg/L	2.78102	-6.3011	ppb	2.78102	44.14%
U 367.007†	325.2	13.98	µg/L	20.826	13.98	ppb	20.826	148.94%
V 292.402†	376.6	3.9692	µg/L	0.09786	3.9692	ppb	0.09786	2.47%
Zn 213.857†	867.1	9.2358	µg/L	0.24651	9.2358	ppb	0.24651	2.67%

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Sequence No.: 14 **Autosampler Location: 312**
Sample ID: 335304007|1339673|1 **Date Collected: 11/5/2013 13:03:54**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304007|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5685.7	5685.7	88.4	%			13:04:27
1	Al 396.153Radial†	-64.3	102.5	98.006	µg/L	98.006	ppb	13:04:27
1	Ca 317.933Radial†	256809.8	290570.9	279670	µg/L	279670	ppb	13:04:22
1	Fe 238.204 Radial†	30096.9	34019.0	36566	µg/L	36566	ppb	13:04:27
1	K 766.490 Radial†	29428.7	32641.2	28160	µg/L	28160	ppb	13:04:27
1	Mg 279.077 IEC†	9927.0	11225.6	88131	µg/L	88131	ppb	13:04:27
1	Na 589.592 Radial†	60682.5	68854.1	406860	µg/L	406860	ppb	13:04:27
1	Sr 421.552†	57740.8	66228.2	971.67	µg/L	971.67	ppb	13:04:22
1	Sc 361.383	487051.3	487051.3	85.920	%			13:04:54
1	Y 371.029	431199.7	431199.7	82.798	%			13:04:54
1	Ag 328.068†	-1592.8	-1607.0	1.6396	µg/L	1.6396	ppb	13:04:54
1	As 188.979†	-11.7	-1.2	2.4248	µg/L	2.4248	ppb	13:05:14
1	B 249.677†	38005.3	44007.6	1461.5	µg/L	1461.5	ppb	13:04:54
1	Ba 233.527†	183848.9	214032.1	2270.5	µg/L	2270.5	ppb	13:04:54
1	Be 313.107†	-9627.8	-5697.3	-0.0811	µg/L	-0.0811	ppb	13:04:54
1	Cd 226.502†	23.1	185.3	-0.6135	µg/L	-0.6135	ppb	13:05:14
1	Co 228.616†	17.1	135.3	5.3615	µg/L	5.3615	ppb	13:05:14
1	Cr 267.716†	-39.1	-126.5	-0.1367	µg/L	-0.1367	ppb	13:05:14
1	Cu 324.752†	1648.3	-436.4	-0.5402	µg/L	-0.5402	ppb	13:04:54
1	Mn 257.610†	337552.2	392474.6	647.44	µg/L	647.44	ppb	13:04:54
1	Mo 202.031†	-3.9	-15.8	-0.3483	µg/L	-0.3483	ppb	13:05:14
1	Ni 231.604†	230.7	381.8	15.343	µg/L	15.343	ppb	13:05:14
1	P 214.914†	749.3	817.8	743.62	µg/L	743.62	ppb	13:05:14
1	Pb 220.353†	33.9	-131.3	-6.8812	µg/L	-6.8812	ppb	13:05:14
1	S 181.975 Axial†	745.7	815.6	2230.1	µg/L	2230.1	ppb	13:05:14
1	Sb 206.836†	60.5	6.7	2.0807	µg/L	2.0807	ppb	13:05:14
1	Se 196.026†	-70.4	-31.6	-31.618	µg/L	-31.618	ppb	13:05:14
1	SiO2†	263166.9	305105.0	38505	µg/L	38505	ppb	13:04:54
1	Si 251.611†	272975.8	317413.9	17858	µg/L	17858	ppb	13:04:54
1	Sn 189.927†	-264.8	-331.2	-21.968	µg/L	-21.968	ppb	13:05:14
1	Ti 334.940†	-3844.1	-3988.1	-0.8555	µg/L	-0.8555	ppb	13:04:54
1	Tl 190.801†	-39.6	-19.9	-9.4867	µg/L	-9.4867	ppb	13:05:14
1	U 367.007†	1049.4	683.7	-14.90	µg/L	-14.90	ppb	13:04:54
1	V 292.402†	128.1	73.2	1.0297	µg/L	1.0297	ppb	13:04:54
1	Zn 213.857†	1102.4	571.8	1.4666	µg/L	1.4666	ppb	13:05:14
2	Sc RADIAL	5638.2	5638.2	87.6	%			13:04:37
2	Al 396.153Radial†	-114.4	44.8	37.547	µg/L	37.547	ppb	13:04:37
2	Ca 317.933Radial†	259863.7	296502.0	285370	µg/L	285370	ppb	13:04:32
2	Fe 238.204 Radial†	29881.8	34060.2	36610	µg/L	36610	ppb	13:04:37
2	K 766.490 Radial†	29188.5	32647.4	28167	µg/L	28167	ppb	13:04:37
2	Mg 279.077 IEC†	9894.4	11282.9	88581	µg/L	88581	ppb	13:04:37
2	Na 589.592 Radial†	59591.7	68187.4	402920	µg/L	402920	ppb	13:04:37
2	Sr 421.552†	58359.0	67483.8	990.09	µg/L	990.09	ppb	13:04:32
2	Sc 361.383	490508.8	490508.8	86.530	%			13:05:20
2	Y 371.029	434216.6	434216.6	83.377	%			13:05:20
2	Ag 328.068†	-1716.6	-1737.0	0.8141	µg/L	0.8141	ppb	13:05:20
2	As 188.979†	-4.2	7.5	9.6661	µg/L	9.6661	ppb	13:05:40
2	B 249.677†	38502.1	44270.0	1470.3	µg/L	1470.3	ppb	13:05:20
2	Ba 233.527†	185874.2	214864.3	2279.3	µg/L	2279.3	ppb	13:05:20
2	Be 313.107†	-9686.8	-5686.5	-0.0154	µg/L	-0.0154	ppb	13:05:20
2	Cd 226.502†	21.2	182.9	-0.6562	µg/L	-0.6562	ppb	13:05:40
2	Co 228.616†	30.3	150.4	5.8186	µg/L	5.8186	ppb	13:05:40
2	Cr 267.716†	-33.9	-120.2	0.0094	µg/L	0.0094	ppb	13:05:40
2	Cu 324.752†	1606.6	-498.2	-0.8632	µg/L	-0.8632	ppb	13:05:20
2	Mn 257.610†	340890.2	393563.0	649.22	µg/L	649.22	ppb	13:05:20
2	Mo 202.031†	0.7	-10.5	0.2797	µg/L	0.2797	ppb	13:05:40
2	Ni 231.604†	252.0	404.6	16.197	µg/L	16.197	ppb	13:05:40
2	P 214.914†	739.1	799.9	726.65	µg/L	726.65	ppb	13:05:40
2	Pb 220.353†	54.3	-108.0	-1.8550	µg/L	-1.8550	ppb	13:05:40

2	S 181.975 Axial†	752.8	817.8	2235.8	µg/L	2235.8	ppb	13:05:40
2	Sb 206.836†	56.0	1.0	-0.9233	µg/L	-0.9233	ppb	13:05:40
2	Se 196.026†	-59.4	-18.4	-6.3246	µg/L	-6.3246	ppb	13:05:40
2	SiO2†	266048.5	306276.2	38655	µg/L	38655	ppb	13:05:20
2	Si 251.611†	276132.8	318822.8	17939	µg/L	17939	ppb	13:05:20
2	Sn 189.927†	-250.6	-312.7	-14.504	µg/L	-14.504	ppb	13:05:40
2	Ti 334.940†	-3878.3	-3996.1	-0.6593	µg/L	-0.6593	ppb	13:05:20
2	Tl 190.801†	-37.0	-16.6	-7.7966	µg/L	-7.7966	ppb	13:05:40
2	U 367.007†	1059.2	686.4	-15.25	µg/L	-15.25	ppb	13:05:20
2	V 292.402†	81.5	18.4	0.4828	µg/L	0.4828	ppb	13:05:20
2	Zn 213.857†	1095.6	554.9	1.1794	µg/L	1.1794	ppb	13:05:40
3	Sc RADIAL	5718.5	5718.5	88.9	%			13:04:48
3	Al 396.153Radial†	-134.6	23.9	15.821	µg/L	15.821	ppb	13:04:48
3	Ca 317.933Radial†	258030.5	290274.1	279380	µg/L	279380	ppb	13:04:43
3	Fe 238.204 Radial†	30109.8	33837.7	36371	µg/L	36371	ppb	13:04:48
3	K 766.490 Radial†	29149.2	32135.4	27723	µg/L	27723	ppb	13:04:48
3	Mg 279.077 IEC†	9954.6	11192.1	87868	µg/L	87868	ppb	13:04:48
3	Na 589.592 Radial†	60218.6	67937.5	401450	µg/L	401450	ppb	13:04:48
3	Sr 421.552†	58019.5	66166.4	970.76	µg/L	970.76	ppb	13:04:43
3	Sc 361.383	490182.3	490182.3	86.472	%			13:05:45
3	Y 371.029	433363.1	433363.1	83.213	%			13:05:45
3	Ag 328.068†	-1723.8	-1746.6	0.6233	µg/L	0.6233	ppb	13:05:45
3	As 188.979†	-10.2	0.6	3.9503	µg/L	3.9503	ppb	13:06:05
3	B 249.677†	38434.0	44220.8	1468.9	µg/L	1468.9	ppb	13:05:45
3	Ba 233.527†	185201.7	214229.7	2272.6	µg/L	2272.6	ppb	13:05:45
3	Be 313.107†	-9649.5	-5650.8	-0.0587	µg/L	-0.0587	ppb	13:05:45
3	Cd 226.502†	32.9	196.5	-0.4131	µg/L	-0.4131	ppb	13:06:05
3	Co 228.616†	24.7	143.9	5.6219	µg/L	5.6219	ppb	13:06:05
3	Cr 267.716†	-13.6	-96.7	0.4906	µg/L	0.4906	ppb	13:06:05
3	Cu 324.752†	1571.7	-537.2	-1.0785	µg/L	-1.0785	ppb	13:05:45
3	Mn 257.610†	340049.6	392853.3	648.06	µg/L	648.06	ppb	13:05:45
3	Mo 202.031†	-5.1	-17.1	-0.5153	µg/L	-0.5153	ppb	13:06:05
3	Ni 231.604†	232.3	381.9	15.340	µg/L	15.340	ppb	13:06:05
3	P 214.914†	763.0	828.0	753.43	µg/L	753.43	ppb	13:06:05
3	Pb 220.353†	26.1	-140.6	-8.6878	µg/L	-8.6878	ppb	13:06:05
3	S 181.975 Axial†	753.6	819.2	2239.9	µg/L	2239.9	ppb	13:06:05
3	Sb 206.836†	71.8	19.3	8.7432	µg/L	8.7432	ppb	13:06:05
3	Se 196.026†	-60.5	-19.7	-9.0565	µg/L	-9.0565	ppb	13:06:05
3	SiO2†	265381.7	305709.9	38593	µg/L	38593	ppb	13:05:45
3	Si 251.611†	275388.6	318174.8	17907	µg/L	17907	ppb	13:05:45
3	Sn 189.927†	-255.8	-318.9	-18.227	µg/L	-18.227	ppb	13:06:05
3	Ti 334.940†	-3885.6	-4007.5	-0.9188	µg/L	-0.9188	ppb	13:05:45
3	Tl 190.801†	-37.2	-16.8	-7.9332	µg/L	-7.9332	ppb	13:06:05
3	U 367.007†	1060.4	688.6	-12.18	µg/L	-12.18	ppb	13:05:45
3	V 292.402†	101.2	41.1	0.7059	µg/L	0.7059	ppb	13:05:45
3	Zn 213.857†	1098.3	558.9	1.3140	µg/L	1.3140	ppb	13:06:05

Mean Data: 335304007|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	489247.5	86.307	%	0.3368				0.39%
Sc RADIAL	5680.8	88.3	%	0.63				0.71%
Y 371.029	432926.5	83.130	%	0.2986				0.36%
Ag 328.068†	-1696.9	1.0257	µg/L	0.54017	1.0257	ppb	0.54017	52.67%
Al 396.153Radial†	57.1	50.458	µg/L	42.5862	50.458	ppb	42.5862	84.40%
As 188.979†	2.3	5.3471	µg/L	3.81737	5.3471	ppb	3.81737	71.39%
B 249.677†	44166.2	1466.9	µg/L	4.73	1466.9	ppb	4.73	0.32%
Ba 233.527†	214375.4	2274.2	µg/L	4.61	2274.2	ppb	4.61	0.20%
Be 313.107†	-5678.2	-0.0517	µg/L	0.03337	-0.0517	ppb	0.03337	64.49%
Ca 317.933Radial†	292449.0	281470	µg/L	3381.5	281470	ppb	3381.5	1.20%
Cd 226.502†	188.2	-0.5610	µg/L	0.12978	-0.5610	ppb	0.12978	23.14%
Co 228.616†	143.2	5.6007	µg/L	0.22926	5.6007	ppb	0.22926	4.09%
Cr 267.716†	-114.4	0.1211	µg/L	0.32822	0.1211	ppb	0.32822	271.03%
Cu 324.752†	-490.6	-0.8273	µg/L	0.27097	-0.8273	ppb	0.27097	32.75%
Fe 238.204 Radial†	33972.3	36516	µg/L	127.2	36516	ppb	127.2	0.35%
K 766.490 Radial†	32474.7	28017	µg/L	254.5	28017	ppb	254.5	0.91%
Mg 279.077 IEC†	11233.5	88194	µg/L	360.6	88194	ppb	360.6	0.41%
Mn 257.610†	392963.7	648.24	µg/L	0.906	648.24	ppb	0.906	0.14%
Mo 202.031†	-14.5	-0.1946	µg/L	0.41919	-0.1946	ppb	0.41919	215.40%
Na 589.592 Radial†	68326.4	403740	µg/L	2799.9	403740	ppb	2799.9	0.69%

Ni 231.604†	389.4	15.627	µg/L	0.4941	15.627	ppb	0.4941	3.16%
P 214.914†	815.2	741.23	µg/L	13.550	741.23	ppb	13.550	1.83%
Pb 220.353†	-126.6	-5.8080	µg/L	3.54056	-5.8080	ppb	3.54056	60.96%
S 181.975 Axial†	817.5	2235.3	µg/L	4.92	2235.3	ppb	4.92	0.22%
Sb 206.836†	9.0	3.3002	µg/L	4.94732	3.3002	ppb	4.94732	149.91%
Se 196.026†	-23.2	-15.666	µg/L	13.8820	-15.666	ppb	13.8820	88.61%
SiO2†	305697.0	38584	µg/L	75.4	38584	ppb	75.4	0.20%
Si 251.611†	318137.2	17901	µg/L	40.5	17901	ppb	40.5	0.23%
Sn 189.927†	-320.9	-18.233	µg/L	3.7319	-18.233	ppb	3.7319	20.47%
Sr 421.552†	66626.1	977.51	µg/L	10.906	977.51	ppb	10.906	1.12%
Ti 334.940†	-3997.2	-0.8112	µg/L	0.13529	-0.8112	ppb	0.13529	16.68%
Tl 190.801†	-17.8	-8.4055	µg/L	0.93881	-8.4055	ppb	0.93881	11.17%
U 367.007†	686.3	-14.11	µg/L	1.681	-14.11	ppb	1.681	11.92%
V 292.402†	44.2	0.7395	µg/L	0.27500	0.7395	ppb	0.27500	37.19%
Zn 213.857†	561.9	1.3200	µg/L	0.14365	1.3200	ppb	0.14365	10.88%

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Sequence No.: 15 **Autosampler Location: 313**
Sample ID: 335304008|1339673|1 **Date Collected: 11/5/2013 13:06:13**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304008|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5647.0	5647.0	87.8	%			13:06:46
1	Al 396.153Radial†	-109.5	50.5	43.615	µg/L	43.615	ppb	13:06:46
1	Ca 317.933Radial†	257977.1	293890.5	282860	µg/L	282860	ppb	13:06:41
1	Fe 238.204 Radial†	29893.3	34020.2	36567	µg/L	36567	ppb	13:06:46
1	K 766.490 Radial†	28355.8	31646.7	27295	µg/L	27295	ppb	13:06:46
1	Mg 279.077 IEC†	9973.2	11355.1	89148	µg/L	89148	ppb	13:06:46
1	Na 589.592 Radial†	60521.2	69140.6	408550	µg/L	408550	ppb	13:06:46
1	Sr 421.552†	58469.0	67505.4	990.42	µg/L	990.42	ppb	13:06:46
1	Sc 361.383	492877.6	492877.6	86.947	%			13:07:13
1	Y 371.029	436154.6	436154.6	83.749	%			13:07:13
1	Ag 328.068†	-1677.9	-1682.9	1.1521	µg/L	1.1521	ppb	13:07:13
1	As 188.979†	-21.4	-12.2	-6.6914	µg/L	-6.6914	ppb	13:07:33
1	B 249.677†	37687.8	43119.6	1432.1	µg/L	1432.1	ppb	13:07:13
1	Ba 233.527†	181898.4	209259.3	2219.9	µg/L	2219.9	ppb	13:07:13
1	Be 313.107†	-9693.0	-5639.9	-0.0169	µg/L	-0.0169	ppb	13:07:13
1	Cd 226.502†	35.6	199.4	-0.3865	µg/L	-0.3865	ppb	13:07:33
1	Co 228.616†	13.9	131.4	5.2141	µg/L	5.2141	ppb	13:07:33
1	Cr 267.716†	-36.9	-123.5	-0.0282	µg/L	-0.0282	ppb	13:07:33
1	Cu 324.752†	1594.9	-520.5	-0.9834	µg/L	-0.9834	ppb	13:07:13
1	Mn 257.610†	330223.9	379402.2	625.84	µg/L	625.84	ppb	13:07:13
1	Mo 202.031†	1.8	-9.2	0.4356	µg/L	0.4356	ppb	13:07:33
1	Ni 231.604†	228.2	375.8	15.117	µg/L	15.117	ppb	13:07:33
1	P 214.914†	732.6	788.3	715.72	µg/L	715.72	ppb	13:07:33
1	Pb 220.353†	43.5	-120.8	-4.5642	µg/L	-4.5642	ppb	13:07:33
1	S 181.975 Axial†	730.8	788.3	2155.2	µg/L	2155.2	ppb	13:07:33
1	Sb 206.836†	60.4	5.7	1.5817	µg/L	1.5817	ppb	13:07:33
1	Se 196.026†	-57.5	-15.8	-1.4263	µg/L	-1.4263	ppb	13:07:33
1	SiO2†	260433.4	298340.4	37657	µg/L	37657	ppb	13:07:13
1	Si 251.611†	270633.9	310964.8	17498	µg/L	17498	ppb	13:07:13
1	Sn 189.927†	-244.6	-304.4	-12.777	µg/L	-12.777	ppb	13:07:33
1	Ti 334.940†	-3931.2	-4035.4	-0.8693	µg/L	-0.8693	ppb	13:07:13
1	Tl 190.801†	-34.2	-13.2	-6.1077	µg/L	-6.1077	ppb	13:07:33
1	U 367.007†	1062.5	684.3	-15.30	µg/L	-15.30	ppb	13:07:13
1	V 292.402†	137.8	82.6	1.1347	µg/L	1.1347	ppb	13:07:13
1	Zn 213.857†	1071.3	520.9	0.7428	µg/L	0.7428	ppb	13:07:33
2	Sc RADIAL	5703.0	5703.0	88.6	%			13:06:56
2	Al 396.153Radial†	-120.1	39.9	32.640	µg/L	32.640	ppb	13:06:56
2	Ca 317.933Radial†	260038.4	293328.8	282320	µg/L	282320	ppb	13:06:51
2	Fe 238.204 Radial†	29446.1	33181.2	35665	µg/L	35665	ppb	13:06:56
2	K 766.490 Radial†	27942.8	30863.4	26617	µg/L	26617	ppb	13:06:56
2	Mg 279.077 IEC†	9779.4	11024.8	86555	µg/L	86555	ppb	13:06:56
2	Na 589.592 Radial†	60183.0	68081.6	402300	µg/L	402300	ppb	13:06:56
2	Sr 421.552†	57598.1	65868.4	966.37	µg/L	966.37	ppb	13:06:56
2	Sc 361.383	492826.0	492826.0	86.938	%			13:07:39
2	Y 371.029	436138.4	436138.4	83.746	%			13:07:39
2	Ag 328.068†	-1676.4	-1681.4	0.9152	µg/L	0.9152	ppb	13:07:39
2	As 188.979†	-9.9	1.1	4.2100	µg/L	4.2100	ppb	13:07:59
2	B 249.677†	37760.8	43208.1	1435.5	µg/L	1435.5	ppb	13:07:39
2	Ba 233.527†	181927.5	209314.7	2220.5	µg/L	2220.5	ppb	13:07:39
2	Be 313.107†	-9589.3	-5521.8	0.0427	µg/L	0.0427	ppb	13:07:39
2	Cd 226.502†	25.9	188.2	-0.4777	µg/L	-0.4777	ppb	13:07:59
2	Co 228.616†	15.1	132.7	5.2606	µg/L	5.2606	ppb	13:07:59
2	Cr 267.716†	-43.0	-130.5	-0.2760	µg/L	-0.2760	ppb	13:07:59
2	Cu 324.752†	1556.9	-564.0	-1.2470	µg/L	-1.2470	ppb	13:07:39
2	Mn 257.610†	330546.2	379812.6	626.53	µg/L	626.53	ppb	13:07:39
2	Mo 202.031†	10.6	0.9	1.5921	µg/L	1.5921	ppb	13:07:59
2	Ni 231.604†	230.0	377.9	15.170	µg/L	15.170	ppb	13:07:59
2	P 214.914†	738.6	795.3	723.06	µg/L	723.06	ppb	13:07:59
2	Pb 220.353†	47.5	-116.1	-3.6463	µg/L	-3.6463	ppb	13:07:59

2	S 181.975 Axial†	727.8	784.8	2145.6	µg/L	2145.6	ppb	13:07:59
2	Sb 206.836†	60.4	5.8	1.6665	µg/L	1.6665	ppb	13:07:59
2	Se 196.026†	-71.8	-32.3	-33.406	µg/L	-33.406	ppb	13:07:59
2	SiO2†	260932.5	298945.9	37750	µg/L	37750	ppb	13:07:39
2	Si 251.611†	270952.4	311363.7	17529	µg/L	17529	ppb	13:07:39
2	Sn 189.927†	-261.3	-323.6	-18.595	µg/L	-18.595	ppb	13:07:59
2	Ti 334.940†	-3949.3	-4056.6	-0.9313	µg/L	-0.9313	ppb	13:07:39
2	Tl 190.801†	-36.7	-16.0	-7.5259	µg/L	-7.5259	ppb	13:07:59
2	U 367.007†	1089.1	715.0	-0.222	µg/L	-0.222	ppb	13:07:39
2	V 292.402†	131.4	75.2	1.0781	µg/L	1.0781	ppb	13:07:39
2	Zn 213.857†	1079.8	530.8	0.9841	µg/L	0.9841	ppb	13:07:59
3	Sc RADIAL	5732.4	5732.4	89.1	%			13:07:07
3	Al 396.153Radial†	-129.7	29.7	22.092	µg/L	22.092	ppb	13:07:07
3	Ca 317.933Radial†	255976.5	287266.4	276490	µg/L	276490	ppb	13:07:01
3	Fe 238.204 Radial†	29463.2	33030.0	35503	µg/L	35503	ppb	13:07:07
3	K 766.490 Radial†	28140.3	30923.6	26668	µg/L	26668	ppb	13:07:07
3	Mg 279.077 IEC†	9836.4	11032.3	86614	µg/L	86614	ppb	13:07:07
3	Na 589.592 Radial†	61002.8	68653.8	405680	µg/L	405680	ppb	13:07:07
3	Sr 421.552†	57843.2	65810.5	965.55	µg/L	965.55	ppb	13:07:07
3	Sc 361.383	496879.5	496879.5	87.653	%			13:08:04
3	Y 371.029	440066.3	440066.3	84.501	%			13:08:04
3	Ag 328.068†	-1781.4	-1785.5	0.0972	µg/L	0.0972	ppb	13:08:04
3	As 188.979†	-11.3	-0.5	2.9418	µg/L	2.9418	ppb	13:08:24
3	B 249.677†	38034.8	43166.3	1434.1	µg/L	1434.1	ppb	13:08:04
3	Ba 233.527†	183504.3	209406.5	2221.4	µg/L	2221.4	ppb	13:08:04
3	Be 313.107†	-9847.9	-5726.8	-0.1242	µg/L	-0.1242	ppb	13:08:04
3	Cd 226.502†	27.4	189.7	-0.4377	µg/L	-0.4377	ppb	13:08:24
3	Co 228.616†	14.2	131.5	5.2232	µg/L	5.2232	ppb	13:08:24
3	Cr 267.716†	5.4	-74.8	0.9069	µg/L	0.9069	ppb	13:08:24
3	Cu 324.752†	1629.7	-495.6	-0.8823	µg/L	-0.8823	ppb	13:08:04
3	Mn 257.610†	333873.4	380506.8	627.66	µg/L	627.66	ppb	13:08:04
3	Mo 202.031†	0.1	-11.2	0.1498	µg/L	0.1498	ppb	13:08:24
3	Ni 231.604†	228.6	374.1	15.022	µg/L	15.022	ppb	13:08:24
3	P 214.914†	736.7	786.1	714.54	µg/L	714.54	ppb	13:08:24
3	Pb 220.353†	47.8	-116.2	-4.0881	µg/L	-4.0881	ppb	13:08:24
3	S 181.975 Axial†	732.5	783.4	2141.9	µg/L	2141.9	ppb	13:08:24
3	Sb 206.836†	73.8	20.4	9.3630	µg/L	9.3630	ppb	13:08:24
3	Se 196.026†	-63.6	-22.2	-14.256	µg/L	-14.256	ppb	13:08:24
3	SiO2†	263314.1	299214.5	37783	µg/L	37783	ppb	13:08:04
3	Si 251.611†	273144.4	311321.9	17526	µg/L	17526	ppb	13:08:04
3	Sn 189.927†	-261.5	-321.4	-19.755	µg/L	-19.755	ppb	13:08:24
3	Ti 334.940†	-3897.3	-3960.3	-0.9040	µg/L	-0.9040	ppb	13:08:04
3	Tl 190.801†	-33.2	-11.7	-5.3475	µg/L	-5.3475	ppb	13:08:24
3	U 367.007†	1142.8	766.1	18.66	µg/L	18.66	ppb	13:08:04
3	V 292.402†	140.4	84.2	1.1695	µg/L	1.1695	ppb	13:08:04
3	Zn 213.857†	1098.5	542.0	1.1976	µg/L	1.1976	ppb	13:08:24

Mean Data: 335304008|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	494194.4	87.180	%	0.4102				0.47%
Sc RADIAL	5694.2	88.5	%	0.67				0.76%
Y 371.029	437453.1	83.999	%	0.4346				0.52%
Ag 328.068†	-1716.6	0.7215	µg/L	0.55351	0.7215	ppb	0.55351	76.72%
Al 396.153Radial†	40.0	32.782	µg/L	10.7621	32.782	ppb	10.7621	32.83%
As 188.979†	-3.9	0.1535	µg/L	5.96166	0.1535	ppb	5.96166	>999.9%
B 249.677†	43164.6	1433.9	µg/L	1.70	1433.9	ppb	1.70	0.12%
Ba 233.527†	209326.8	2220.6	µg/L	0.80	2220.6	ppb	0.80	0.04%
Be 313.107†	-5629.5	-0.0328	µg/L	0.08457	-0.0328	ppb	0.08457	257.86%
Ca 317.933Radial†	291495.2	280560	µg/L	3535.2	280560	ppb	3535.2	1.26%
Cd 226.502†	192.4	-0.4340	µg/L	0.04572	-0.4340	ppb	0.04572	10.54%
Co 228.616†	131.9	5.2326	µg/L	0.02463	5.2326	ppb	0.02463	0.47%
Cr 267.716†	-109.6	0.2009	µg/L	0.62383	0.2009	ppb	0.62383	310.57%
Cu 324.752†	-526.7	-1.0376	µg/L	0.18830	-1.0376	ppb	0.18830	18.15%
Fe 238.204 Radial†	33410.5	35912	µg/L	573.4	35912	ppb	573.4	1.60%
K 766.490 Radial†	31144.6	26860	µg/L	377.6	26860	ppb	377.6	1.41%
Mg 279.077 IEC†	11137.4	87439	µg/L	1480.5	87439	ppb	1480.5	1.69%
Mn 257.610†	379907.2	626.68	µg/L	0.920	626.68	ppb	0.920	0.15%
Mo 202.031†	-6.5	0.7258	µg/L	0.76372	0.7258	ppb	0.76372	105.22%
Na 589.592 Radial†	68625.3	405510	µg/L	3132.0	405510	ppb	3132.0	0.77%

Ni 231.604†	375.9	15.103	µg/L	0.0749	15.103	ppb	0.0749	0.50%
P 214.914†	789.9	717.77	µg/L	4.618	717.77	ppb	4.618	0.64%
Pb 220.353†	-117.7	-4.0995	µg/L	0.45905	-4.0995	ppb	0.45905	11.20%
S 181.975 Axial†	785.5	2147.5	µg/L	6.86	2147.5	ppb	6.86	0.32%
Sb 206.836†	10.6	4.2037	µg/L	4.46825	4.2037	ppb	4.46825	106.29%
Se 196.026†	-23.4	-16.363	µg/L	16.0933	-16.363	ppb	16.0933	98.35%
SiO2†	298833.6	37730	µg/L	65.7	37730	ppb	65.7	0.17%
Si 251.611†	311216.8	17518	µg/L	16.6	17518	ppb	16.6	0.09%
Sn 189.927†	-316.5	-17.042	µg/L	3.7392	-17.042	ppb	3.7392	21.94%
Sr 421.552†	66394.8	974.11	µg/L	14.127	974.11	ppb	14.127	1.45%
Ti 334.940†	-4017.5	-0.9015	µg/L	0.03110	-0.9015	ppb	0.03110	3.45%
Tl 190.801†	-13.6	-6.3270	µg/L	1.10564	-6.3270	ppb	1.10564	17.47%
U 367.007†	721.8	1.046	µg/L	17.0176	1.046	ppb	17.0176	>999.9%
V 292.402†	80.7	1.1275	µg/L	0.04614	1.1275	ppb	0.04614	4.09%
Zn 213.857†	531.2	0.9748	µg/L	0.22756	0.9748	ppb	0.22756	23.34%

Sequence No.: 16
Sample ID: 335304009|1339673|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 314
Date Collected: 11/5/2013 13:08:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304009|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5930.2	5930.2	92.2	%			13:09:21
1	Al 396.153Radial†	1502.3	1805.2	1886.4	µg/L	1886.4	ppb	13:09:21
1	Ca 317.933Radial†	102894.5	111592.4	107400	µg/L	107400	ppb	13:09:01
1	Fe 238.204 Radial†	2476.1	2646.5	2844.6	µg/L	2844.6	ppb	13:09:21
1	K 766.490 Radial†	4653.5	4387.3	3796.3	µg/L	3796.3	ppb	13:09:01
1	Mg 279.077 IEC†	4875.4	5281.5	41465	µg/L	41465	ppb	13:09:21
1	Na 589.592 Radial†	4204.6	4745.0	28039	µg/L	28039	ppb	13:09:21
1	Sr 421.552†	51709.4	56990.3	836.79	µg/L	836.79	ppb	13:09:01
1	Sc 361.383	516811.6	516811.6	91.170	%			13:10:17
1	Y 371.029	461147.8	461147.8	88.549	%			13:10:17
1	Ag 328.068†	-510.6	-313.2	-0.2417	µg/L	-0.2417	ppb	13:10:17
1	As 188.979†	-10.2	1.2	1.2796	µg/L	1.2796	ppb	13:10:38
1	B 249.677†	3419.6	3524.8	116.33	µg/L	116.33	ppb	13:10:17
1	Ba 233.527†	27666.5	30400.3	322.55	µg/L	322.55	ppb	13:10:17
1	Be 313.107†	-6385.3	-1495.4	0.3336	µg/L	0.3336	ppb	13:10:17
1	Cd 226.502†	-137.3	7.8	-0.1534	µg/L	-0.1534	ppb	13:10:38
1	Co 228.616†	-60.9	48.6	1.6020	µg/L	1.6020	ppb	13:10:38
1	Cr 267.716†	93.1	21.1	1.3770	µg/L	1.3770	ppb	13:10:38
1	Cu 324.752†	2221.2	81.5	0.5872	µg/L	0.5872	ppb	13:10:17
1	Mn 257.610†	139025.6	152096.0	249.68	µg/L	249.68	ppb	13:10:17
1	Mo 202.031†	43.5	36.4	4.4261	µg/L	4.4261	ppb	13:10:38
1	Ni 231.604†	-1.0	112.2	4.2871	µg/L	4.2871	ppb	13:10:38
1	P 214.914†	187.8	151.6	141.56	µg/L	141.56	ppb	13:10:38
1	Pb 220.353†	109.4	-50.8	-3.6953	µg/L	-3.6953	ppb	13:10:38
1	S 181.975 Axial†	2828.0	3049.6	8349.6	µg/L	8349.6	ppb	13:10:38
1	Sb 206.836†	58.4	0.3	-0.1543	µg/L	-0.1543	ppb	13:10:38
1	Se 196.026†	-65.3	-21.3	-36.171	µg/L	-36.171	ppb	13:10:38
1	SiO2†	176428.2	192327.2	24592	µg/L	24592	ppb	13:10:17
1	Si 251.611†	182275.9	199633.8	11378	µg/L	11378	ppb	13:10:17
1	Sn 189.927†	-184.9	-225.9	-37.755	µg/L	-37.755	ppb	13:10:38
1	Ti 334.940†	7472.7	8682.5	27.573	µg/L	27.573	ppb	13:10:17
1	Tl 190.801†	-33.4	-10.4	-4.9543	µg/L	-4.9543	ppb	13:10:38
1	U 367.007†	647.7	172.7	23.51	µg/L	23.51	ppb	13:10:17
1	V 292.402†	598.2	580.3	5.9630	µg/L	5.9630	ppb	13:10:17
1	Zn 213.857†	1631.6	1078.4	13.189	µg/L	13.189	ppb	13:10:38
2	Sc RADIAL	5926.8	5926.8	92.1	%			13:09:46
2	Al 396.153Radial†	1516.5	1821.6	1903.6	µg/L	1903.6	ppb	13:09:46
2	Ca 317.933Radial†	104500.3	113399.6	109140	µg/L	109140	ppb	13:09:26
2	Fe 238.204 Radial†	2468.8	2640.2	2837.8	µg/L	2837.8	ppb	13:09:46
2	K 766.490 Radial†	4682.6	4421.9	3826.3	µg/L	3826.3	ppb	13:09:26
2	Mg 279.077 IEC†	4869.7	5278.3	41440	µg/L	41440	ppb	13:09:46
2	Na 589.592 Radial†	4224.0	4768.7	28179	µg/L	28179	ppb	13:09:46
2	Sr 421.552†	52334.0	57700.5	847.21	µg/L	847.21	ppb	13:09:26
2	Sc 361.383	516549.0	516549.0	91.123	%			13:10:43
2	Y 371.029	460807.0	460807.0	88.483	%			13:10:43
2	Ag 328.068†	-433.9	-229.4	0.3510	µg/L	0.3510	ppb	13:10:43
2	As 188.979†	-16.2	-5.4	-4.2239	µg/L	-4.2239	ppb	13:11:03
2	B 249.677†	3378.7	3481.9	114.87	µg/L	114.87	ppb	13:10:43
2	Ba 233.527†	27665.5	30414.7	322.70	µg/L	322.70	ppb	13:10:43
2	Be 313.107†	-6477.5	-1600.2	0.2898	µg/L	0.2898	ppb	13:10:43
2	Cd 226.502†	-142.8	1.7	-0.2509	µg/L	-0.2509	ppb	13:11:03
2	Co 228.616†	-69.1	39.6	1.3328	µg/L	1.3328	ppb	13:11:03
2	Cr 267.716†	111.2	41.0	1.8219	µg/L	1.8219	ppb	13:11:03
2	Cu 324.752†	2233.1	95.8	0.6444	µg/L	0.6444	ppb	13:10:43
2	Mn 257.610†	139340.2	152518.8	250.38	µg/L	250.38	ppb	13:10:43
2	Mo 202.031†	43.7	36.7	4.4609	µg/L	4.4609	ppb	13:11:03
2	Ni 231.604†	-5.0	107.8	4.1232	µg/L	4.1232	ppb	13:11:03
2	P 214.914†	190.0	154.2	144.02	µg/L	144.02	ppb	13:11:03
2	Pb 220.353†	95.2	-66.3	-6.6247	µg/L	-6.6247	ppb	13:11:03

2	S 181.975 Axial†	2838.5	3062.7	8385.5	µg/L	8385.5	ppb	13:11:03
2	Sb 206.836†	65.0	7.6	3.6809	µg/L	3.6809	ppb	13:11:03
2	Se 196.026†	-55.8	-11.0	-16.630	µg/L	-16.630	ppb	13:11:03
2	SiO2†	176557.8	192567.8	24622	µg/L	24622	ppb	13:10:43
2	Si 251.611†	182364.1	199832.3	11389	µg/L	11389	ppb	13:10:43
2	Sn 189.927†	-186.1	-227.3	-37.636	µg/L	-37.636	ppb	13:11:03
2	Ti 334.940†	7513.6	8731.5	27.789	µg/L	27.789	ppb	13:10:43
2	Tl 190.801†	-30.4	-7.1	-3.3156	µg/L	-3.3156	ppb	13:11:03
2	U 367.007†	567.3	84.9	-5.981	µg/L	-5.981	ppb	13:10:43
2	V 292.402†	602.9	585.7	5.9959	µg/L	5.9959	ppb	13:10:43
2	Zn 213.857†	1611.9	1057.7	12.896	µg/L	12.896	ppb	13:11:03
3	Sc RADIAL	5913.9	5913.9	91.9	%			13:10:11
3	Al 396.153Radial†	1499.9	1807.2	1888.5	µg/L	1888.5	ppb	13:10:11
3	Ca 317.933Radial†	103142.2	112168.5	107960	µg/L	107960	ppb	13:09:51
3	Fe 238.204 Radial†	2469.3	2646.5	2844.7	µg/L	2844.7	ppb	13:10:11
3	K 766.490 Radial†	4559.6	4299.0	3719.3	µg/L	3719.3	ppb	13:09:51
3	Mg 279.077 IEC†	4872.3	5292.6	41552	µg/L	41552	ppb	13:10:11
3	Na 589.592 Radial†	4277.1	4836.4	28578	µg/L	28578	ppb	13:10:11
3	Sr 421.552†	51876.9	57326.5	841.72	µg/L	841.72	ppb	13:09:51
3	Sc 361.383	516909.8	516909.8	91.187	%			13:11:08
3	Y 371.029	461804.1	461804.1	88.675	%			13:11:08
3	Ag 328.068†	-424.8	-219.0	0.4108	µg/L	0.4108	ppb	13:11:08
3	As 188.979†	3.6	16.4	13.835	µg/L	13.835	ppb	13:11:29
3	B 249.677†	3336.3	3432.8	113.27	µg/L	113.27	ppb	13:11:08
3	Ba 233.527†	27796.5	30537.2	324.00	µg/L	324.00	ppb	13:11:08
3	Be 313.107†	-6333.7	-1437.6	0.3703	µg/L	0.3703	ppb	13:11:08
3	Cd 226.502†	-104.8	43.4	0.4230	µg/L	0.4230	ppb	13:11:29
3	Co 228.616†	-45.7	65.2	2.0944	µg/L	2.0944	ppb	13:11:29
3	Cr 267.716†	86.1	13.4	1.2137	µg/L	1.2137	ppb	13:11:29
3	Cu 324.752†	2319.8	189.2	1.1546	µg/L	1.1546	ppb	13:11:08
3	Mn 257.610†	139568.4	152662.3	250.61	µg/L	250.61	ppb	13:11:08
3	Mo 202.031†	36.4	28.6	3.5080	µg/L	3.5080	ppb	13:11:29
3	Ni 231.604†	1.3	114.7	4.3817	µg/L	4.3817	ppb	13:11:29
3	P 214.914†	205.4	170.9	159.80	µg/L	159.80	ppb	13:11:29
3	Pb 220.353†	80.8	-82.2	-9.8410	µg/L	-9.8410	ppb	13:11:29
3	S 181.975 Axial†	2856.0	3079.8	8432.2	µg/L	8432.2	ppb	13:11:29
3	Sb 206.836†	59.5	1.5	0.4679	µg/L	0.4679	ppb	13:11:29
3	Se 196.026†	-51.0	-5.6	-6.2183	µg/L	-6.2183	ppb	13:11:29
3	SiO2†	177320.4	193268.9	24715	µg/L	24715	ppb	13:11:08
3	Si 251.611†	183355.1	200779.3	11444	µg/L	11444	ppb	13:11:08
3	Sn 189.927†	-187.1	-228.3	-38.306	µg/L	-38.306	ppb	13:11:29
3	Ti 334.940†	8151.9	9425.8	29.628	µg/L	29.628	ppb	13:11:08
3	Tl 190.801†	-31.7	-8.5	-3.9861	µg/L	-3.9861	ppb	13:11:29
3	U 367.007†	647.6	172.5	23.34	µg/L	23.34	ppb	13:11:08
3	V 292.402†	592.1	573.5	5.8816	µg/L	5.8816	ppb	13:11:08
3	Zn 213.857†	1603.8	1047.6	12.765	µg/L	12.765	ppb	13:11:29

Mean Data: 335304009|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	516756.8	91.160	%	0.0329				0.04%
Sc RADIAL	5923.6	92.1	%	0.13				0.14%
Y 371.029	461253.0	88.569	%	0.0973				0.11%
Ag 328.068†	-253.9	0.1733	µg/L	0.36070	0.1733	ppb	0.36070	208.08%
Al 396.153Radial†	1811.3	1892.8	µg/L	9.35	1892.8	ppb	9.35	0.49%
As 188.979†	4.1	3.6301	µg/L	9.25583	3.6301	ppb	9.25583	254.98%
B 249.677†	3479.8	114.83	µg/L	1.529	114.83	ppb	1.529	1.33%
Ba 233.527†	30450.7	323.09	µg/L	0.798	323.09	ppb	0.798	0.25%
Be 313.107†	-1511.1	0.3312	µg/L	0.04032	0.3312	ppb	0.04032	12.17%
Ca 317.933Radial†	112386.8	108170	µg/L	888.6	108170	ppb	888.6	0.82%
Cd 226.502†	17.7	0.0062	µg/L	0.36421	0.0062	ppb	0.36421	>999.9%
Co 228.616†	51.1	1.6764	µg/L	0.38622	1.6764	ppb	0.38622	23.04%
Cr 267.716†	25.2	1.4709	µg/L	0.31480	1.4709	ppb	0.31480	21.40%
Cu 324.752†	122.2	0.7954	µg/L	0.31237	0.7954	ppb	0.31237	39.27%
Fe 238.204 Radial†	2644.4	2842.4	µg/L	3.95	2842.4	ppb	3.95	0.14%
K 766.490 Radial†	4369.4	3780.6	µg/L	55.20	3780.6	ppb	55.20	1.46%
Mg 279.077 IEC†	5284.1	41486	µg/L	59.1	41486	ppb	59.1	0.14%
Mn 257.610†	152425.7	250.23	µg/L	0.484	250.23	ppb	0.484	0.19%
Mo 202.031†	33.9	4.1317	µg/L	0.54040	4.1317	ppb	0.54040	13.08%
Na 589.592 Radial†	4783.4	28265	µg/L	280.1	28265	ppb	280.1	0.99%

Ni 231.604†	111.6	4.2640	µg/L	0.13079	4.2640	ppb	0.13079	3.07%
P 214.914†	158.9	148.46	µg/L	9.897	148.46	ppb	9.897	6.67%
Pb 220.353†	-66.4	-6.7203	µg/L	3.07394	-6.7203	ppb	3.07394	45.74%
S 181.975 Axial†	3064.1	8389.1	µg/L	41.42	8389.1	ppb	41.42	0.49%
Sb 206.836†	3.1	1.3315	µg/L	2.05832	1.3315	ppb	2.05832	154.59%
Se 196.026†	-12.6	-19.673	µg/L	15.2064	-19.673	ppb	15.2064	77.30%
SiO2†	192721.3	24643	µg/L	63.9	24643	ppb	63.9	0.26%
Si 251.611†	200081.8	11404	µg/L	35.6	11404	ppb	35.6	0.31%
Sn 189.927†	-227.2	-37.899	µg/L	0.3578	-37.899	ppb	0.3578	0.94%
Sr 421.552†	57339.1	841.91	µg/L	5.215	841.91	ppb	5.215	0.62%
Ti 334.940†	8946.6	28.330	µg/L	1.1294	28.330	ppb	1.1294	3.99%
Tl 190.801†	-8.7	-4.0854	µg/L	0.82383	-4.0854	ppb	0.82383	20.17%
U 367.007†	143.4	13.62	µg/L	16.978	13.62	ppb	16.978	124.62%
V 292.402†	579.8	5.9468	µg/L	0.05885	5.9468	ppb	0.05885	0.99%
Zn 213.857†	1061.2	12.950	µg/L	0.2171	12.950	ppb	0.2171	1.68%

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Sequence No.: 17 **Autosampler Location: 315**
Sample ID: 335304010|1339673|1 **Date Collected: 11/5/2013 13:11:36**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304010|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5903.9	5903.9	91.8	%			13:12:24
1	Al 396.153Radial†	-66.8	102.5	106.80	µg/L	106.80	ppb	13:12:24
1	Ca 317.933Radial†	107060.0	116628.1	112250	µg/L	112250	ppb	13:12:04
1	Fe 238.204 Radial†	792.7	823.8	885.51	µg/L	885.51	ppb	13:12:24
1	K 766.490 Radial†	4483.2	4224.2	3653.8	µg/L	3653.8	ppb	13:12:04
1	Mg 279.077 IEC†	4995.6	5436.0	42677	µg/L	42677	ppb	13:12:24
1	Na 589.592 Radial†	4481.1	5066.6	29939	µg/L	29939	ppb	13:12:04
1	Sr 421.552†	53397.7	59079.5	867.46	µg/L	867.46	ppb	13:12:04
1	Sc 361.383	520580.8	520580.8	91.834	%			13:13:21
1	Y 371.029	462995.4	462995.4	88.903	%			13:13:21
1	Ag 328.068†	-305.9	-86.2	0.8075	µg/L	0.8075	ppb	13:13:21
1	As 188.979†	-8.8	2.9	2.4247	µg/L	2.4247	ppb	13:13:41
1	B 249.677†	3339.8	3410.9	112.76	µg/L	112.76	ppb	13:13:21
1	Ba 233.527†	28934.5	31561.4	334.91	µg/L	334.91	ppb	13:13:21
1	Be 313.107†	-7254.9	-2391.7	-0.0995	µg/L	-0.0995	ppb	13:13:21
1	Cd 226.502†	-162.9	-19.0	-0.3941	µg/L	-0.3941	ppb	13:13:41
1	Co 228.616†	-101.8	4.5	0.3530	µg/L	0.3530	ppb	13:13:41
1	Cr 267.716†	32.5	-45.6	-0.0344	µg/L	-0.0344	ppb	13:13:41
1	Cu 324.752†	1883.5	-303.9	-1.5414	µg/L	-1.5414	ppb	13:13:21
1	Mn 257.610†	118203.1	128318.0	210.25	µg/L	210.25	ppb	13:13:21
1	Mo 202.031†	49.1	42.2	5.0326	µg/L	5.0326	ppb	13:13:41
1	Ni 231.604†	-44.6	64.7	2.4524	µg/L	2.4524	ppb	13:13:41
1	P 214.914†	84.6	37.8	35.016	µg/L	35.016	ppb	13:13:41
1	Pb 220.353†	94.0	-68.5	-5.9373	µg/L	-5.9373	ppb	13:13:41
1	S 181.975 Axial†	2935.6	3144.3	8608.8	µg/L	8608.8	ppb	13:13:41
1	Sb 206.836†	70.7	13.2	6.8411	µg/L	6.8411	ppb	13:13:41
1	Se 196.026†	-41.6	5.1	12.578	µg/L	12.578	ppb	13:13:41
1	SiO2†	143619.5	155200.1	19831	µg/L	19831	ppb	13:13:21
1	Si 251.611†	148260.2	161146.0	9177.2	µg/L	9177.2	ppb	13:13:21
1	Sn 189.927†	-185.3	-224.8	-35.805	µg/L	-35.805	ppb	13:13:41
1	Ti 334.940†	-294.7	165.1	4.4521	µg/L	4.4521	ppb	13:13:21
1	Tl 190.801†	-33.1	-9.8	-4.7796	µg/L	-4.7796	ppb	13:13:41
1	U 367.007†	601.1	116.8	14.26	µg/L	14.26	ppb	13:13:21
1	V 292.402†	105.0	38.4	0.4771	µg/L	0.4771	ppb	13:13:21
1	Zn 213.857†	956.1	329.9	3.1467	µg/L	3.1467	ppb	13:13:41
2	Sc RADIAL	5929.0	5929.0	92.1	%			13:12:49
2	Al 396.153Radial†	-58.6	111.7	116.47	µg/L	116.47	ppb	13:12:49
2	Ca 317.933Radial†	105418.9	114353.5	110060	µg/L	110060	ppb	13:12:29
2	Fe 238.204 Radial†	788.5	815.7	876.75	µg/L	876.75	ppb	13:12:49
2	K 766.490 Radial†	4425.2	4140.6	3581.3	µg/L	3581.3	ppb	13:12:29
2	Mg 279.077 IEC†	4981.1	5397.2	42373	µg/L	42373	ppb	13:12:49
2	Na 589.592 Radial†	4413.3	4972.4	29382	µg/L	29382	ppb	13:12:29
2	Sr 421.552†	52662.0	58034.8	852.12	µg/L	852.12	ppb	13:12:29
2	Sc 361.383	517500.9	517500.9	91.291	%			13:13:47
2	Y 371.029	460142.2	460142.2	88.356	%			13:13:47
2	Ag 328.068†	-421.5	-214.9	-0.0948	µg/L	-0.0948	ppb	13:13:47
2	As 188.979†	-6.6	5.2	4.3676	µg/L	4.3676	ppb	13:14:07
2	B 249.677†	3399.0	3497.3	115.70	µg/L	115.70	ppb	13:13:47
2	Ba 233.527†	28638.6	31424.8	333.46	µg/L	333.46	ppb	13:13:47
2	Be 313.107†	-7074.9	-2241.5	-0.0400	µg/L	-0.0400	ppb	13:13:47
2	Cd 226.502†	-160.6	-17.5	-0.3687	µg/L	-0.3687	ppb	13:14:07
2	Co 228.616†	-110.7	-5.9	0.0387	µg/L	0.0387	ppb	13:14:07
2	Cr 267.716†	37.2	-40.2	0.0677	µg/L	0.0677	ppb	13:14:07
2	Cu 324.752†	2012.0	-150.9	-0.7289	µg/L	-0.7289	ppb	13:13:47
2	Mn 257.610†	117222.5	128009.8	209.75	µg/L	209.75	ppb	13:13:47
2	Mo 202.031†	34.0	25.9	3.1019	µg/L	3.1019	ppb	13:14:07
2	Ni 231.604†	-73.1	33.2	1.2703	µg/L	1.2703	ppb	13:14:07
2	P 214.914†	81.8	35.2	32.625	µg/L	32.625	ppb	13:14:07
2	Pb 220.353†	102.8	-58.2	-4.0698	µg/L	-4.0698	ppb	13:14:07

2	S 181.975 Axial†	2953.3	3182.8	8714.3	µg/L	8714.3	ppb	13:14:07
2	Sb 206.836†	61.5	3.6	1.7234	µg/L	1.7234	ppb	13:14:07
2	Se 196.026†	-59.3	-14.6	-24.798	µg/L	-24.798	ppb	13:14:07
2	SiO2†	142448.5	154848.2	19788	µg/L	19788	ppb	13:13:47
2	Si 251.611†	147061.4	160793.7	9157.9	µg/L	9157.9	ppb	13:13:47
2	Sn 189.927†	-193.3	-234.8	-39.543	µg/L	-39.543	ppb	13:14:07
2	Ti 334.940†	-209.8	256.1	4.6138	µg/L	4.6138	ppb	13:13:47
2	Tl 190.801†	-29.1	-5.6	-2.6601	µg/L	-2.6601	ppb	13:14:07
2	U 367.007†	624.3	146.2	24.47	µg/L	24.47	ppb	13:13:47
2	V 292.402†	186.6	128.6	1.3763	µg/L	1.3763	ppb	13:13:47
2	Zn 213.857†	963.3	344.0	3.3658	µg/L	3.3658	ppb	13:14:07
3	Sc RADIAL	5950.5	5950.5	92.5	%			13:13:14
3	Al 396.153Radial†	-71.4	98.1	102.21	µg/L	102.21	ppb	13:13:14
3	Ca 317.933Radial†	107084.9	115742.0	111400	µg/L	111400	ppb	13:12:54
3	Fe 238.204 Radial†	792.9	817.3	878.53	µg/L	878.53	ppb	13:13:14
3	K 766.490 Radial†	4463.5	4164.7	3602.3	µg/L	3602.3	ppb	13:12:54
3	Mg 279.077 IEC†	4988.9	5386.1	42286	µg/L	42286	ppb	13:13:14
3	Na 589.592 Radial†	4417.6	4959.7	29307	µg/L	29307	ppb	13:12:54
3	Sr 421.552†	53438.3	58668.0	861.42	µg/L	861.42	ppb	13:12:54
3	Sc 361.383	520778.5	520778.5	91.869	%			13:14:12
3	Y 371.029	463242.5	463242.5	88.951	%			13:14:12
3	Ag 328.068†	-413.8	-203.5	-0.0051	µg/L	-0.0051	ppb	13:14:12
3	As 188.979†	-6.7	5.0	4.2443	µg/L	4.2443	ppb	13:14:32
3	B 249.677†	3343.3	3413.3	112.87	µg/L	112.87	ppb	13:14:12
3	Ba 233.527†	29091.5	31720.3	336.59	µg/L	336.59	ppb	13:14:12
3	Be 313.107†	-7082.7	-2201.2	-0.0055	µg/L	-0.0055	ppb	13:14:12
3	Cd 226.502†	-142.4	3.5	-0.0305	µg/L	-0.0305	ppb	13:14:32
3	Co 228.616†	-113.7	-8.4	-0.0306	µg/L	-0.0306	ppb	13:14:32
3	Cr 267.716†	11.9	-68.1	-0.5307	µg/L	-0.5307	ppb	13:14:32
3	Cu 324.752†	1974.7	-205.3	-1.0192	µg/L	-1.0192	ppb	13:14:12
3	Mn 257.610†	118728.4	128840.9	211.12	µg/L	211.12	ppb	13:14:12
3	Mo 202.031†	46.5	39.3	4.6908	µg/L	4.6908	ppb	13:14:32
3	Ni 231.604†	-68.5	38.7	1.4767	µg/L	1.4767	ppb	13:14:32
3	P 214.914†	82.1	35.0	32.391	µg/L	32.391	ppb	13:14:32
3	Pb 220.353†	79.0	-84.8	-9.2194	µg/L	-9.2194	ppb	13:14:32
3	S 181.975 Axial†	2949.0	3157.8	8645.7	µg/L	8645.7	ppb	13:14:32
3	Sb 206.836†	68.3	10.6	5.4948	µg/L	5.4948	ppb	13:14:32
3	Se 196.026†	-45.8	0.5	3.8776	µg/L	3.8776	ppb	13:14:32
3	SiO2†	144153.6	155722.1	19899	µg/L	19899	ppb	13:14:12
3	Si 251.611†	148922.7	161805.9	9215.5	µg/L	9215.5	ppb	13:14:12
3	Sn 189.927†	-181.7	-220.9	-34.841	µg/L	-34.841	ppb	13:14:32
3	Ti 334.940†	-307.2	151.6	4.3830	µg/L	4.3830	ppb	13:14:12
3	Tl 190.801†	-36.1	-13.1	-6.4080	µg/L	-6.4080	ppb	13:14:32
3	U 367.007†	615.7	132.5	19.68	µg/L	19.68	ppb	13:14:12
3	V 292.402†	153.1	90.8	1.0068	µg/L	1.0068	ppb	13:14:12
3	Zn 213.857†	966.9	341.3	3.3180	µg/L	3.3180	ppb	13:14:32

Mean Data: 335304010|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	519620.1	91.665	%	0.3242				0.35%
Sc RADIAL	5927.8	92.1	%	0.36				0.39%
Y 371.029	462126.7	88.737	%	0.3309				0.37%
Ag 328.068†	-168.2	0.2359	µg/L	0.49709	0.2359	ppb	0.49709	210.75%
Al 396.153Radial†	104.1	108.49	µg/L	7.284	108.49	ppb	7.284	6.71%
As 188.979†	4.4	3.6789	µg/L	1.08786	3.6789	ppb	1.08786	29.57%
B 249.677†	3440.5	113.78	µg/L	1.669	113.78	ppb	1.669	1.47%
Ba 233.527†	31568.8	334.99	µg/L	1.569	334.99	ppb	1.569	0.47%
Be 313.107†	-2278.2	-0.0483	µg/L	0.04756	-0.0483	ppb	0.04756	98.46%
Ca 317.933Radial†	115574.5	111240	µg/L	1103.6	111240	ppb	1103.6	0.99%
Cd 226.502†	-11.0	-0.2644	µg/L	0.20295	-0.2644	ppb	0.20295	76.75%
Co 228.616†	-3.2	0.1204	µg/L	0.20445	0.1204	ppb	0.20445	169.85%
Cr 267.716†	-51.3	-0.1658	µg/L	0.32014	-0.1658	ppb	0.32014	193.08%
Cu 324.752†	-220.0	-1.0965	µg/L	0.41174	-1.0965	ppb	0.41174	37.55%
Fe 238.204 Radial†	819.0	880.26	µg/L	4.631	880.26	ppb	4.631	0.53%
K 766.490 Radial†	4176.5	3612.5	µg/L	37.27	3612.5	ppb	37.27	1.03%
Mg 279.077 IEC†	5406.4	42445	µg/L	205.7	42445	ppb	205.7	0.48%
Mn 257.610†	128389.6	210.37	µg/L	0.696	210.37	ppb	0.696	0.33%
Mo 202.031†	35.8	4.2751	µg/L	1.03029	4.2751	ppb	1.03029	24.10%
Na 589.592 Radial†	4999.6	29543	µg/L	345.0	29543	ppb	345.0	1.17%

Ni 231.604†	45.5	1.7331	µg/L	0.63137	1.7331	ppb	0.63137	36.43%
P 214.914†	36.0	33.344	µg/L	1.4524	33.344	ppb	1.4524	4.36%
Pb 220.353†	-70.5	-6.4089	µg/L	2.60698	-6.4089	ppb	2.60698	40.68%
S 181.975 Axial†	3161.6	8656.3	µg/L	53.55	8656.3	ppb	53.55	0.62%
Sb 206.836†	9.1	4.6865	µg/L	2.65290	4.6865	ppb	2.65290	56.61%
Se 196.026†	-3.0	-2.7809	µg/L	19.55728	-2.7809	ppb	19.55728	703.28%
SiO2†	155256.8	19839	µg/L	56.3	19839	ppb	56.3	0.28%
Si 251.611†	161248.5	9183.5	µg/L	29.35	9183.5	ppb	29.35	0.32%
Sn 189.927†	-226.8	-36.730	µg/L	2.4837	-36.730	ppb	2.4837	6.76%
Sr 421.552†	58594.1	860.33	µg/L	7.726	860.33	ppb	7.726	0.90%
Ti 334.940†	190.9	4.4830	µg/L	0.11842	4.4830	ppb	0.11842	2.64%
Tl 190.801†	-9.5	-4.6159	µg/L	1.87929	-4.6159	ppb	1.87929	40.71%
U 367.007†	131.9	19.47	µg/L	5.107	19.47	ppb	5.107	26.23%
V 292.402†	85.9	0.9534	µg/L	0.45201	0.9534	ppb	0.45201	47.41%
Zn 213.857†	338.4	3.2768	µg/L	0.11521	3.2768	ppb	0.11521	3.52%

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Sequence No.: 18 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 13:14:40**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6080.6	6080.6	94.5	%			13:15:31
1	Al 396.153Radial†	4573.5	5014.7	5195.9	µg/L	5195.9	ppb	13:15:11
1	Ca 317.933Radial†	5015.0	5259.7	5061.4	µg/L	5061.4	ppb	13:15:31
1	Fe 238.204 Radial†	4585.7	4812.3	5177.4	µg/L	5177.4	ppb	13:15:31
1	K 766.490 Radial†	6514.6	6231.8	5406.1	µg/L	5406.1	ppb	13:15:11
1	Mg 279.077 IEC†	639.3	668.2	5245.9	µg/L	5245.9	ppb	13:15:31
1	Na 589.592 Radial†	1633.1	1911.1	11293	µg/L	11293	ppb	13:15:11
1	Sr 421.552†	32590.8	35372.1	519.67	µg/L	519.67	ppb	13:15:11
1	Sc 361.383	543211.8	543211.8	95.827	%			13:16:28
1	Y 371.029	486103.0	486103.0	93.340	%			13:16:28
1	Ag 328.068†	71946.0	75326.2	522.09	µg/L	522.09	ppb	13:16:33
1	As 188.979†	546.5	582.6	484.77	µg/L	484.77	ppb	13:16:53
1	B 249.677†	14384.5	14785.0	493.03	µg/L	493.03	ppb	13:16:33
1	Ba 233.527†	45557.6	47595.8	505.65	µg/L	505.65	ppb	13:16:33
1	Be 313.107†	889381.0	933622.1	499.85	µg/L	499.85	ppb	13:16:28
1	Cd 226.502†	29082.3	30507.3	493.09	µg/L	493.09	ppb	13:16:33
1	Co 228.616†	15971.2	16782.2	501.35	µg/L	501.35	ppb	13:16:33
1	Cr 267.716†	22699.5	23607.0	506.80	µg/L	506.80	ppb	13:16:33
1	Cu 324.752†	96556.7	98407.0	518.56	µg/L	518.56	ppb	13:16:33
1	Mn 257.610†	291746.1	304056.4	501.91	µg/L	501.91	ppb	13:16:33
1	Mo 202.031†	4133.8	4302.5	509.34	µg/L	509.34	ppb	13:16:53
1	Ni 231.604†	12402.6	13056.0	489.61	µg/L	489.61	ppb	13:16:53
1	P 214.914†	2551.1	2607.9	2451.1	µg/L	2451.1	ppb	13:16:53
1	Pb 220.353†	2575.6	2516.9	496.72	µg/L	496.72	ppb	13:16:53
1	S 181.975 Axial†	392.4	357.2	987.01	µg/L	987.01	ppb	13:16:53
1	Sb 206.836†	976.3	955.0	501.15	µg/L	501.15	ppb	13:16:53
1	Se 196.026†	181.6	239.8	466.84	µg/L	466.84	ppb	13:16:53
1	SiO2†	42268.9	42920.3	5420.9	µg/L	5420.9	ppb	13:16:33
1	Si 251.611†	43194.6	44778.8	2498.5	µg/L	2498.5	ppb	13:16:33
1	Sn 189.927†	1552.4	1597.0	492.01	µg/L	492.01	ppb	13:16:53
1	Ti 334.940†	181421.7	189808.6	519.15	µg/L	519.15	ppb	13:16:33
1	Tl 190.801†	942.2	1009.4	507.86	µg/L	507.86	ppb	13:16:53
1	U 367.007†	1986.6	1535.5	484.8	µg/L	484.8	ppb	13:16:33
1	V 292.402†	48105.9	50125.0	514.87	µg/L	514.87	ppb	13:16:33
1	Zn 213.857†	36042.8	36901.2	497.68	µg/L	497.68	ppb	13:16:33
2	Sc RADIAL	6078.3	6078.3	94.5	%			13:15:56
2	Al 396.153Radial†	4639.7	5086.7	5271.4	µg/L	5271.4	ppb	13:15:36
2	Ca 317.933Radial†	4996.3	5242.0	5044.3	µg/L	5044.3	ppb	13:15:56
2	Fe 238.204 Radial†	4566.0	4793.4	5157.0	µg/L	5157.0	ppb	13:15:56
2	K 766.490 Radial†	6575.5	6298.9	5464.5	µg/L	5464.5	ppb	13:15:36
2	Mg 279.077 IEC†	639.0	668.1	5245.2	µg/L	5245.2	ppb	13:15:56
2	Na 589.592 Radial†	1633.0	1911.7	11296	µg/L	11296	ppb	13:15:36
2	Sr 421.552†	32792.7	35599.0	523.00	µg/L	523.00	ppb	13:15:36
2	Sc 361.383	546417.1	546417.1	96.392	%			13:16:59
2	Y 371.029	488642.6	488642.6	93.828	%			13:16:59
2	Ag 328.068†	72005.6	74947.6	519.46	µg/L	519.46	ppb	13:17:04
2	As 188.979†	536.6	569.1	473.53	µg/L	473.53	ppb	13:17:24
2	B 249.677†	14479.3	14795.2	493.35	µg/L	493.35	ppb	13:17:04
2	Ba 233.527†	45695.0	47459.4	504.20	µg/L	504.20	ppb	13:17:04
2	Be 313.107†	896676.3	935746.0	500.99	µg/L	500.99	ppb	13:16:59
2	Cd 226.502†	29238.8	30491.5	492.83	µg/L	492.83	ppb	13:17:04
2	Co 228.616†	16005.5	16719.9	499.48	µg/L	499.48	ppb	13:17:04
2	Cr 267.716†	22787.4	23559.3	505.78	µg/L	505.78	ppb	13:17:04
2	Cu 324.752†	96634.8	97896.9	515.87	µg/L	515.87	ppb	13:17:04
2	Mn 257.610†	292966.4	303536.4	501.05	µg/L	501.05	ppb	13:17:04
2	Mo 202.031†	4104.2	4246.5	502.70	µg/L	502.70	ppb	13:17:24
2	Ni 231.604†	12364.7	12940.8	485.29	µg/L	485.29	ppb	13:17:24
2	P 214.914†	2552.2	2593.4	2437.5	µg/L	2437.5	ppb	13:17:24
2	Pb 220.353†	2561.6	2486.6	490.68	µg/L	490.68	ppb	13:17:24

2	S 181.975 Axial†	387.2	349.5	965.67 µg/L	965.67 ppb	13:17:24
2	Sb 206.836†	960.1	932.3	489.06 µg/L	489.06 ppb	13:17:24
2	Se 196.026†	204.0	262.0	508.94 µg/L	508.94 ppb	13:17:24
2	SiO2†	42476.8	42877.3	5413.8 µg/L	5413.8 ppb	13:17:04
2	Si 251.611†	43529.9	44862.3	2502.7 µg/L	2502.7 ppb	13:17:04
2	Sn 189.927†	1562.5	1597.9	492.29 µg/L	492.29 ppb	13:17:24
2	Ti 334.940†	181550.9	188832.1	516.48 µg/L	516.48 ppb	13:17:04
2	Tl 190.801†	927.9	988.8	497.52 µg/L	497.52 ppb	13:17:24
2	U 367.007†	1978.2	1514.6	477.9 µg/L	477.9 ppb	13:17:04
2	V 292.402†	48089.5	49813.5	511.63 µg/L	511.63 ppb	13:17:04
2	Zn 213.857†	36191.9	36835.3	496.81 µg/L	496.81 ppb	13:17:04
3	Sc RADIAL	6071.6	6071.6	94.4 %		13:16:21
3	Al 396.153Radial†	4626.4	5078.0	5262.2 µg/L	5262.2 ppb	13:16:01
3	Ca 317.933Radial†	5004.8	5256.7	5058.5 µg/L	5058.5 ppb	13:16:21
3	Fe 238.204 Radial†	4581.1	4814.6	5179.8 µg/L	5179.8 ppb	13:16:21
3	K 766.490 Radial†	6521.3	6249.0	5421.0 µg/L	5421.0 ppb	13:16:01
3	Mg 279.077 IEC†	635.4	665.0	5221.2 µg/L	5221.2 ppb	13:16:21
3	Na 589.592 Radial†	1686.8	1970.5	11644 µg/L	11644 ppb	13:16:01
3	Sr 421.552†	32867.2	35715.7	524.72 µg/L	524.72 ppb	13:16:01
3	Sc 361.383	545833.6	545833.6	96.289 %		13:17:29
3	Y 371.029	488362.4	488362.4	93.774 %		13:17:29
3	Ag 328.068†	71774.8	74787.7	518.37 µg/L	518.37 ppb	13:17:35
3	As 188.979†	550.4	583.9	485.85 µg/L	485.85 ppb	13:17:55
3	B 249.677†	14444.9	14775.6	492.71 µg/L	492.71 ppb	13:17:35
3	Ba 233.527†	45528.5	47337.2	502.90 µg/L	502.90 ppb	13:17:35
3	Be 313.107†	895269.9	935280.0	500.73 µg/L	500.73 ppb	13:17:29
3	Cd 226.502†	29192.9	30476.3	492.59 µg/L	492.59 ppb	13:17:35
3	Co 228.616†	15954.3	16684.5	498.44 µg/L	498.44 ppb	13:17:35
3	Cr 267.716†	22687.9	23481.3	504.12 µg/L	504.12 ppb	13:17:35
3	Cu 324.752†	96241.7	97595.8	514.27 µg/L	514.27 ppb	13:17:35
3	Mn 257.610†	292130.0	302992.8	500.16 µg/L	500.16 ppb	13:17:35
3	Mo 202.031†	4146.8	4295.3	508.48 µg/L	508.48 ppb	13:17:55
3	Ni 231.604†	12436.0	13028.6	488.59 µg/L	488.59 ppb	13:17:55
3	P 214.914†	2563.6	2608.0	2451.3 µg/L	2451.3 ppb	13:17:55
3	Pb 220.353†	2602.5	2532.0	499.67 µg/L	499.67 ppb	13:17:55
3	S 181.975 Axial†	381.6	344.1	950.98 µg/L	950.98 ppb	13:17:55
3	Sb 206.836†	968.7	942.3	494.48 µg/L	494.48 ppb	13:17:55
3	Se 196.026†	188.4	246.0	478.40 µg/L	478.40 ppb	13:17:55
3	SiO2†	42710.2	43166.8	5451.7 µg/L	5451.7 ppb	13:17:35
3	Si 251.611†	43714.1	45101.8	2516.8 µg/L	2516.8 ppb	13:17:35
3	Sn 189.927†	1569.2	1606.6	494.94 µg/L	494.94 ppb	13:17:55
3	Ti 334.940†	181063.2	188527.0	515.66 µg/L	515.66 ppb	13:17:35
3	Tl 190.801†	937.4	999.7	502.98 µg/L	502.98 ppb	13:17:55
3	U 367.007†	1902.1	1437.8	452.2 µg/L	452.2 ppb	13:17:35
3	V 292.402†	48000.2	49774.1	511.27 µg/L	511.27 ppb	13:17:35
3	Zn 213.857†	36153.1	36835.2	496.79 µg/L	496.79 ppb	13:17:35

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	545154.2	96.169	%	0.3012				0.31%
Sc RADIAL	6076.8	94.4	%	0.07				0.08%
Y 371.029	487702.7	93.648	%	0.2674				0.29%
Ag 328.068†	75020.5	519.97	µg/L	1.912	519.97	ppb	1.912	0.37%
QC value within limits for Ag 328.068 Recovery = 103.99%								
Al 396.153Radial†	5059.8	5243.2	µg/L	41.19	5243.2	ppb	41.19	0.79%
QC value within limits for Al 396.153Radial Recovery = 104.86%								
As 188.979†	578.6	481.38	µg/L	6.821	481.38	ppb	6.821	1.42%
QC value within limits for As 188.979 Recovery = 96.28%								
B 249.677†	14785.3	493.03	µg/L	0.320	493.03	ppb	0.320	0.06%
QC value within limits for B 249.677 Recovery = 98.61%								
Ba 233.527†	47464.1	504.25	µg/L	1.376	504.25	ppb	1.376	0.27%
QC value within limits for Ba 233.527 Recovery = 100.85%								
Be 313.107†	934882.7	500.52	µg/L	0.595	500.52	ppb	0.595	0.12%
QC value within limits for Be 313.107 Recovery = 100.10%								
Ca 317.933Radial†	5252.8	5054.7	µg/L	9.14	5054.7	ppb	9.14	0.18%
QC value within limits for Ca 317.933Radial Recovery = 101.09%								
Cd 226.502†	30491.7	492.83	µg/L	0.251	492.83	ppb	0.251	0.05%
QC value within limits for Cd 226.502 Recovery = 98.57%								
Co 228.616†	16728.9	499.76	µg/L	1.475	499.76	ppb	1.475	0.30%

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   QC value within limits for Co 228.616  Recovery = 99.95%
Cr 267.716†            23549.2      505.57 µg/L         1.354      505.57 ppb          1.354   0.27%
   QC value within limits for Cr 267.716  Recovery = 101.11%
Cu 324.752†            97966.6      516.23 µg/L         2.168      516.23 ppb          2.168   0.42%
   QC value within limits for Cu 324.752  Recovery = 103.25%
Fe 238.204 Radial†      4806.7      5171.4 µg/L         12.52      5171.4 ppb          12.52   0.24%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.43%
K 766.490 Radial†       6259.9      5430.5 µg/L         30.33      5430.5 ppb          30.33   0.56%
   QC value within limits for K 766.490 Radial  Recovery = 108.61%
Mg 279.077 IEC†          667.1      5237.4 µg/L         14.07      5237.4 ppb          14.07   0.27%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.75%
Mn 257.610†           303528.5      501.04 µg/L         0.877      501.04 ppb          0.877   0.18%
   QC value within limits for Mn 257.610  Recovery = 100.21%
Mo 202.031†             4281.4      506.84 µg/L         3.609      506.84 ppb          3.609   0.71%
   QC value within limits for Mo 202.031  Recovery = 101.37%
Na 589.592 Radial†      1931.1       11411 µg/L         201.7       11411 ppb          201.7   1.77%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 114.11%
Ni 231.604†            13008.4      487.83 µg/L         2.258      487.83 ppb          2.258   0.46%
   QC value within limits for Ni 231.604  Recovery = 97.57%
P 214.914†              2603.1      2446.6 µg/L          7.90      2446.6 ppb           7.90   0.32%
   QC value within limits for P 214.914  Recovery = 97.87%
Pb 220.353†             2511.8      495.69 µg/L         4.581      495.69 ppb          4.581   0.92%
   QC value within limits for Pb 220.353  Recovery = 99.14%
S 181.975 Axial†         350.2      967.89 µg/L        18.117      967.89 ppb         18.117   1.87%
   QC value within limits for S 181.975 Axial  Recovery = 96.79%
Sb 206.836†              943.2      494.90 µg/L         6.055      494.90 ppb          6.055   1.22%
   QC value within limits for Sb 206.836  Recovery = 98.98%
Se 196.026†              249.3      484.73 µg/L        21.751      484.73 ppb         21.751   4.49%
   QC value within limits for Se 196.026  Recovery = 96.95%
SiO2†                  42988.1      5428.8 µg/L         20.15      5428.8 ppb          20.15   0.37%
   QC value within limits for SiO2  Recovery = 101.52%
Si 251.611†            44914.3      2506.0 µg/L          9.60      2506.0 ppb           9.60   0.38%
   QC value within limits for Si 251.611  Recovery = 100.24%
Sn 189.927†             1600.5      493.08 µg/L         1.619      493.08 ppb          1.619   0.33%
   QC value within limits for Sn 189.927  Recovery = 98.62%
Sr 421.552†            35562.2      522.46 µg/L         2.567      522.46 ppb          2.567   0.49%
   QC value within limits for Sr 421.552  Recovery = 104.49%
Ti 334.940†           189055.9      517.10 µg/L         1.825      517.10 ppb          1.825   0.35%
   QC value within limits for Ti 334.940  Recovery = 103.42%
Tl 190.801†              999.3      502.79 µg/L         5.169      502.79 ppb          5.169   1.03%
   QC value within limits for Tl 190.801  Recovery = 100.56%
U 367.007†              1495.9       471.6 µg/L         17.15       471.6 ppb          17.15   3.64%
   QC value within limits for U 367.007  Recovery = 94.33%
V 292.402†             49904.2      512.59 µg/L         1.980      512.59 ppb          1.980   0.39%
   QC value within limits for V 292.402  Recovery = 102.52%
Zn 213.857†            36857.2      497.09 µg/L         0.507      497.09 ppb          0.507   0.10%
   QC value within limits for Zn 213.857  Recovery = 99.42%
QC Failed.  Continue with analysis.
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Sequence No.: 19 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 13:18:02**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6116.9	6116.9	95.1	%			13:18:30
1	Al 396.153Radial†	-144.3	23.6	24.625	µg/L	24.625	ppb	13:18:30
1	Ca 317.933Radial†	50.3	6.0	5.7165	µg/L	5.7165	ppb	13:18:50
1	Fe 238.204 Radial†	36.8	-1.4	-1.4564	µg/L	-1.4564	ppb	13:18:50
1	K 766.490 Radial†	873.6	257.3	223.58	µg/L	223.58	ppb	13:18:30
1	Mg 279.077 IEC†	13.8	6.2	48.572	µg/L	48.572	ppb	13:18:50
1	Na 589.592 Radial†	-152.6	22.5	133.03	µg/L	133.03	ppb	13:18:30
1	Sr 421.552†	-844.8	-2.5	-0.0366	µg/L	-0.0366	ppb	13:18:30
1	Sc 361.383	533639.8	533639.8	94.138	%			13:19:47
1	Y 371.029	490964.2	490964.2	94.274	%			13:19:47
1	Ag 328.068†	-310.4	-82.9	-0.5676	µg/L	-0.5676	ppb	13:19:47
1	As 188.979†	-15.6	-4.2	-3.5057	µg/L	-3.5057	ppb	13:20:07
1	B 249.677†	296.5	89.1	2.8851	µg/L	2.8851	ppb	13:19:47
1	Ba 233.527†	-80.9	-31.8	-0.3370	µg/L	-0.3370	ppb	13:20:07
1	Be 313.107†	-5146.1	41.7	0.0226	µg/L	0.0226	ppb	13:19:47
1	Cd 226.502†	-161.2	-12.8	-0.2071	µg/L	-0.2071	ppb	13:20:07
1	Co 228.616†	-103.5	5.4	0.1615	µg/L	0.1615	ppb	13:20:07
1	Cr 267.716†	78.0	1.8	0.0400	µg/L	0.0400	ppb	13:20:07
1	Cu 324.752†	2213.2	-3.8	-0.0196	µg/L	-0.0196	ppb	13:19:47
1	Mn 257.610†	436.1	68.0	0.1103	µg/L	0.1103	ppb	13:19:47
1	Mo 202.031†	14.0	3.5	0.4170	µg/L	0.4170	ppb	13:20:07
1	Ni 231.604†	-107.8	-1.2	-0.0469	µg/L	-0.0469	ppb	13:20:07
1	P 214.914†	59.7	9.1	8.6145	µg/L	8.6145	ppb	13:20:07
1	Pb 220.353†	162.5	1.9	0.3590	µg/L	0.3590	ppb	13:20:07
1	S 181.975 Axial†	54.0	5.1	13.867	µg/L	13.867	ppb	13:20:07
1	Sb 206.836†	46.8	-14.0	-7.4061	µg/L	-7.4061	ppb	13:20:07
1	Se 196.026†	-51.5	-4.4	-8.2762	µg/L	-8.2762	ppb	13:20:07
1	SiO2†	1530.2	436.1	50.849	µg/L	50.849	ppb	13:19:47
1	Si 251.611†	657.0	401.0	20.565	µg/L	20.565	ppb	13:20:07
1	Sn 189.927†	25.8	4.3	1.3219	µg/L	1.3219	ppb	13:20:07
1	Ti 334.940†	-388.3	73.4	0.2003	µg/L	0.2003	ppb	13:19:47
1	Tl 190.801†	-25.0	-0.4	-0.1798	µg/L	-0.1798	ppb	13:20:07
1	U 367.007†	509.2	3.3	1.092	µg/L	1.092	ppb	13:19:47
1	V 292.402†	97.8	28.0	0.2892	µg/L	0.2892	ppb	13:19:47
1	Zn 213.857†	685.7	17.1	0.2327	µg/L	0.2327	ppb	13:20:07
2	Sc RADIAL	6106.7	6106.7	94.9	%			13:18:55
2	Al 396.153Radial†	-188.5	-23.3	-24.387	µg/L	-24.387	ppb	13:18:55
2	Ca 317.933Radial†	48.3	3.9	3.7987	µg/L	3.7987	ppb	13:19:15
2	Fe 238.204 Radial†	38.9	1.0	1.0806	µg/L	1.0806	ppb	13:19:15
2	K 766.490 Radial†	846.7	230.5	200.22	µg/L	200.22	ppb	13:18:55
2	Mg 279.077 IEC†	6.0	-2.0	-15.474	µg/L	-15.474	ppb	13:19:15
2	Na 589.592 Radial†	-125.7	50.6	299.09	µg/L	299.09	ppb	13:18:55
2	Sr 421.552†	-846.0	-5.2	-0.0769	µg/L	-0.0769	ppb	13:18:55
2	Sc 361.383	530322.2	530322.2	93.553	%			13:20:12
2	Y 371.029	487787.3	487787.3	93.664	%			13:20:12
2	Ag 328.068†	-279.0	-51.4	-0.3437	µg/L	-0.3437	ppb	13:20:12
2	As 188.979†	-9.8	1.9	1.6074	µg/L	1.6074	ppb	13:20:32
2	B 249.677†	322.7	119.0	3.8998	µg/L	3.8998	ppb	13:20:12
2	Ba 233.527†	-56.5	-6.2	-0.0639	µg/L	-0.0639	ppb	13:20:32
2	Be 313.107†	-5185.1	-34.1	-0.0239	µg/L	-0.0239	ppb	13:20:12
2	Cd 226.502†	-148.7	-0.5	-0.0088	µg/L	-0.0088	ppb	13:20:32
2	Co 228.616†	-104.0	4.2	0.1268	µg/L	0.1268	ppb	13:20:32
2	Cr 267.716†	57.2	-19.8	-0.4090	µg/L	-0.4090	ppb	13:20:32
2	Cu 324.752†	2171.1	-34.1	-0.1970	µg/L	-0.1970	ppb	13:20:12
2	Mn 257.610†	317.2	-56.2	-0.0922	µg/L	-0.0922	ppb	13:20:12
2	Mo 202.031†	18.9	8.9	1.0538	µg/L	1.0538	ppb	13:20:32
2	Ni 231.604†	-109.6	-3.9	-0.1471	µg/L	-0.1471	ppb	13:20:32
2	P 214.914†	27.2	-25.3	-23.899	µg/L	-23.899	ppb	13:20:32
2	Pb 220.353†	185.4	27.4	5.4274	µg/L	5.4274	ppb	13:20:32

2	S 181.975 Axial†	50.7	2.0	5.4474	µg/L	5.4474	ppb	13:20:32
2	Sb 206.836†	53.1	-6.9	-3.6418	µg/L	-3.6418	ppb	13:20:32
2	Se 196.026†	-46.8	0.3	0.4405	µg/L	0.4405	ppb	13:20:32
2	SiO2†	1441.1	351.0	40.179	µg/L	40.179	ppb	13:20:12
2	Si 251.611†	594.0	338.1	17.208	µg/L	17.208	ppb	13:20:32
2	Sn 189.927†	19.1	-2.7	-0.8290	µg/L	-0.8290	ppb	13:20:32
2	Ti 334.940†	-503.3	-52.0	-0.1291	µg/L	-0.1291	ppb	13:20:12
2	Tl 190.801†	-28.8	-4.6	-2.3083	µg/L	-2.3083	ppb	13:20:32
2	U 367.007†	426.0	-82.3	-27.38	µg/L	-27.38	ppb	13:20:12
2	V 292.402†	193.3	130.7	1.3123	µg/L	1.3123	ppb	13:20:12
2	Zn 213.857†	682.1	17.9	0.2436	µg/L	0.2436	ppb	13:20:32
3	Sc RADIAL	6073.4	6073.4	94.4	%			13:19:20
3	Al 396.153Radial†	-162.5	3.1	3.2655	µg/L	3.2655	ppb	13:19:20
3	Ca 317.933Radial†	50.2	6.2	5.9787	µg/L	5.9787	ppb	13:19:40
3	Fe 238.204 Radial†	38.4	0.7	0.7565	µg/L	0.7565	ppb	13:19:40
3	K 766.490 Radial†	771.5	155.7	135.19	µg/L	135.19	ppb	13:19:20
3	Mg 279.077 IEC†	7.7	-0.2	-1.4628	µg/L	-1.4628	ppb	13:19:40
3	Na 589.592 Radial†	-132.4	42.8	252.92	µg/L	252.92	ppb	13:19:20
3	Sr 421.552†	-856.6	-21.3	-0.3134	µg/L	-0.3134	ppb	13:19:20
3	Sc 361.383	531914.7	531914.7	93.834	%			13:20:38
3	Y 371.029	488861.1	488861.1	93.870	%			13:20:38
3	Ag 328.068†	-269.2	-40.1	-0.2747	µg/L	-0.2747	ppb	13:20:38
3	As 188.979†	-18.4	-7.2	-5.9833	µg/L	-5.9833	ppb	13:20:58
3	B 249.677†	286.6	79.5	2.6070	µg/L	2.6070	ppb	13:20:38
3	Ba 233.527†	-64.2	-14.2	-0.1509	µg/L	-0.1509	ppb	13:20:58
3	Be 313.107†	-5330.9	-173.0	-0.0923	µg/L	-0.0923	ppb	13:20:38
3	Cd 226.502†	-149.4	-0.8	-0.0123	µg/L	-0.0123	ppb	13:20:58
3	Co 228.616†	-111.8	-3.8	-0.1138	µg/L	-0.1138	ppb	13:20:58
3	Cr 267.716†	77.5	1.6	0.0342	µg/L	0.0342	ppb	13:20:58
3	Cu 324.752†	2136.7	-77.7	-0.4089	µg/L	-0.4089	ppb	13:20:38
3	Mn 257.610†	376.1	5.6	0.0093	µg/L	0.0093	ppb	13:20:38
3	Mo 202.031†	12.7	2.2	0.2591	µg/L	0.2591	ppb	13:20:58
3	Ni 231.604†	-107.6	-1.3	-0.0504	µg/L	-0.0504	ppb	13:20:58
3	P 214.914†	59.4	9.0	8.5149	µg/L	8.5149	ppb	13:20:58
3	Pb 220.353†	164.3	4.3	0.8471	µg/L	0.8471	ppb	13:20:58
3	S 181.975 Axial†	51.4	2.5	6.9687	µg/L	6.9687	ppb	13:20:58
3	Sb 206.836†	54.9	-5.3	-2.7725	µg/L	-2.7725	ppb	13:20:58
3	Se 196.026†	-31.5	16.7	31.875	µg/L	31.875	ppb	13:20:58
3	SiO2†	1463.5	370.2	44.420	µg/L	44.420	ppb	13:20:38
3	Si 251.611†	548.0	287.1	14.990	µg/L	14.990	ppb	13:20:58
3	Sn 189.927†	27.2	5.9	1.8160	µg/L	1.8160	ppb	13:20:58
3	Ti 334.940†	-429.7	28.1	0.0765	µg/L	0.0765	ppb	13:20:38
3	Tl 190.801†	-29.0	-4.7	-2.3565	µg/L	-2.3565	ppb	13:20:58
3	U 367.007†	507.5	3.2	1.043	µg/L	1.043	ppb	13:20:38
3	V 292.402†	72.9	1.8	0.0224	µg/L	0.0224	ppb	13:20:38
3	Zn 213.857†	680.0	13.5	0.1836	µg/L	0.1836	ppb	13:20:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	531958.9	93.842	%	0.2927				0.31%
Sc RADIAL	6099.0	94.8	%	0.35				0.37%
Y 371.029	489204.2	93.936	%	0.3103				0.33%
Ag 328.068†	-58.1	-0.3954	µg/L	0.15312	-0.3954	ppb	0.15312	38.73%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	1.1	1.1676	µg/L	24.57326	1.1676	ppb	24.57326	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.2	-2.6272	µg/L	3.87084	-2.6272	ppb	3.87084	147.34%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	95.8	3.1306	µg/L	0.68050	3.1306	ppb	0.68050	21.74%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-17.4	-0.1840	µg/L	0.13952	-0.1840	ppb	0.13952	75.84%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-55.1	-0.0312	µg/L	0.05779	-0.0312	ppb	0.05779	185.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.4	5.1647	µg/L	1.19019	5.1647	ppb	1.19019	23.04%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-4.7	-0.0761	µg/L	0.11350	-0.0761	ppb	0.11350	149.19%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	1.9	0.0582	µg/L	0.14993	0.0582	ppb	0.14993	257.70%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -5.5     -0.1116 µg/L       0.25760     -0.1116 ppb        0.25760 230.87%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -38.5     -0.2085 µg/L       0.19491     -0.2085 ppb        0.19491  93.47%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.1      0.1269 µg/L       1.38073      0.1269 ppb        1.38073 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         214.5      186.33 µg/L        45.807      186.33 ppb         45.807  24.58%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             1.3      10.545 µg/L       33.6692      10.545 ppb        33.6692 319.29%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                 5.8      0.0091 µg/L       0.10125      0.0091 ppb        0.10125 >999.9%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 4.9      0.5766 µg/L       0.42071      0.5766 ppb        0.42071  72.96%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         38.6      228.35 µg/L        85.711      228.35 ppb         85.711  37.54%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -2.2     -0.0815 µg/L       0.05689     -0.0815 ppb        0.05689  69.84%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -2.4     -2.2566 µg/L      18.74306     -2.2566 ppb       18.74306 830.60%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                11.2      2.2111 µg/L       2.79599      2.2111 ppb        2.79599 126.45%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            3.2      8.7612 µg/L       4.48707      8.7612 ppb        4.48707  51.22%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -8.7     -4.6068 µg/L       2.46296     -4.6068 ppb        2.46296  53.46%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 4.2      8.0130 µg/L      21.11940      8.0130 ppb       21.11940 263.57%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     385.8      45.149 µg/L        5.3723      45.149 ppb         5.3723  11.90%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               342.1      17.588 µg/L        2.8067      17.588 ppb         2.8067  15.96%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 2.5      0.7696 µg/L       1.40631      0.7696 ppb        1.40631 182.73%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                -9.7     -0.1423 µg/L       0.14955     -0.1423 ppb        0.14955 105.09%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                16.5      0.0492 µg/L       0.16640      0.0492 ppb        0.16640 338.05%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -3.2     -1.6149 µg/L       1.24302     -1.6149 ppb        1.24302  76.97%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -25.3      -8.415 µg/L       16.4259      -8.415 ppb        16.4259 195.19%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 53.5      0.5413 µg/L       0.68090      0.5413 ppb        0.68090 125.79%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                16.2      0.2199 µg/L       0.03197      0.2199 ppb        0.03197  14.54%
   QC value within limits for Zn 213.857  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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Analysis Begun

Start Time: 11/5/2013 13:31:36 **Plasma On Time: 11/5/2013 5:57:05**
Logged In Analyst: optima3 **Technique: ICP Continuous**
Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: AS-93plus

Sample Information File: C:\pe\Optima3\Sample Information\110513.sif
Batch ID:
Results Data Set: 110513A
Results Library: C:\pe\optima3\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 301**
Sample ID: 1202969094|1339675|1 **Date Collected: 11/5/2013 13:31:38**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969094|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5943.3	5943.3	92.4	%			13:32:09
1	Al 396.153Radial†	-171.4	-10.2	-10.689	µg/L	-10.689	ppb	13:32:09
1	Ca 317.933Radial†	51.7	9.1	8.7416	µg/L	8.7416	ppb	13:32:29
1	Fe 238.204 Radial†	40.8	4.2	4.5123	µg/L	4.5123	ppb	13:32:29
1	K 766.490 Radial†	712.0	109.2	94.817	µg/L	94.817	ppb	13:32:09
1	Mg 279.077 IEC†	13.7	6.5	51.157	µg/L	51.157	ppb	13:32:29
1	Na 589.592 Radial†	-137.1	34.6	204.58	µg/L	204.58	ppb	13:32:09
1	Sr 421.552†	-853.4	-37.7	-0.5541	µg/L	-0.5541	ppb	13:32:09
1	Sc 361.383	536421.0	536421.0	94.629	%			13:33:26
1	Y 371.029	488539.6	488539.6	93.808	%			13:33:26
1	Ag 328.068†	-264.4	-32.5	-0.2215	µg/L	-0.2215	ppb	13:33:26
1	As 188.979†	-13.8	-2.2	-1.8587	µg/L	-1.8587	ppb	13:33:46
1	B 249.677†	263.5	52.5	1.7179	µg/L	1.7179	ppb	13:33:26
1	Ba 233.527†	-70.9	-20.8	-0.2207	µg/L	-0.2207	ppb	13:33:46
1	Be 313.107†	-5288.5	-80.4	-0.0434	µg/L	-0.0434	ppb	13:33:26
1	Cd 226.502†	-126.4	24.8	0.4005	µg/L	0.4005	ppb	13:33:46
1	Co 228.616†	-111.9	-2.9	-0.0866	µg/L	-0.0866	ppb	13:33:46
1	Cr 267.716†	79.5	3.0	0.0666	µg/L	0.0666	ppb	13:33:46
1	Cu 324.752†	2335.3	113.1	0.5941	µg/L	0.5941	ppb	13:33:26
1	Mn 257.610†	429.2	58.3	0.0947	µg/L	0.0947	ppb	13:33:26
1	Mo 202.031†	16.8	6.4	0.7618	µg/L	0.7618	ppb	13:33:46
1	Ni 231.604†	-100.4	7.2	0.2687	µg/L	0.2687	ppb	13:33:46
1	P 214.914†	57.4	6.3	5.9385	µg/L	5.9385	ppb	13:33:46
1	Pb 220.353†	164.4	3.0	0.5977	µg/L	0.5977	ppb	13:33:46
1	S 181.975 Axial†	50.7	1.3	3.6676	µg/L	3.6676	ppb	13:33:46
1	Sb 206.836†	64.1	4.0	2.1300	µg/L	2.1300	ppb	13:33:46
1	Se 196.026†	-48.8	-1.3	-2.4830	µg/L	-2.4830	ppb	13:33:46
1	SiO2†	1324.3	210.1	24.775	µg/L	24.775	ppb	13:33:26
1	Si 251.611†	360.5	84.0	3.7912	µg/L	3.7912	ppb	13:33:46
1	Sn 189.927†	24.2	2.5	0.7702	µg/L	0.7702	ppb	13:33:46
1	Ti 334.940†	-410.0	52.6	0.1449	µg/L	0.1449	ppb	13:33:26
1	Tl 190.801†	-37.6	-13.6	-6.7909	µg/L	-6.7909	ppb	13:33:46
1	U 367.007†	502.8	-6.3	-2.131	µg/L	-2.131	ppb	13:33:26
1	V 292.402†	79.7	8.3	0.0914	µg/L	0.0914	ppb	13:33:26
1	Zn 213.857†	754.1	85.7	1.1614	µg/L	1.1614	ppb	13:33:46
2	Sc RADIAL	5997.9	5997.9	93.2	%			13:32:34
2	Al 396.153Radial†	-170.1	-7.2	-7.5502	µg/L	-7.5502	ppb	13:32:34
2	Ca 317.933Radial†	47.4	3.9	3.7645	µg/L	3.7645	ppb	13:32:54
2	Fe 238.204 Radial†	40.1	3.0	3.2181	µg/L	3.2181	ppb	13:32:54
2	K 766.490 Radial†	692.7	81.4	70.734	µg/L	70.734	ppb	13:32:34
2	Mg 279.077 IEC†	7.2	-0.6	-4.7214	µg/L	-4.7214	ppb	13:32:54
2	Na 589.592 Radial†	-148.2	24.1	142.24	µg/L	142.24	ppb	13:32:34
2	Sr 421.552†	-859.0	-35.3	-0.5191	µg/L	-0.5191	ppb	13:32:34
2	Sc 361.383	534641.0	534641.0	94.315	%			13:33:51
2	Y 371.029	486523.9	486523.9	93.421	%			13:33:51
2	Ag 328.068†	-306.9	-78.6	-0.5424	µg/L	-0.5424	ppb	13:33:51
2	As 188.979†	-19.5	-8.3	-6.8770	µg/L	-6.8770	ppb	13:34:11

2	B 249.677†	249.1	38.1	1.2470	µg/L	1.2470	ppb	13:33:51
2	Ba 233.527†	-78.2	-28.7	-0.3056	µg/L	-0.3056	ppb	13:34:11
2	Be 313.107†	-5288.8	-99.3	-0.0577	µg/L	-0.0577	ppb	13:33:51
2	Cd 226.502†	-133.3	17.0	0.2753	µg/L	0.2753	ppb	13:34:11
2	Co 228.616†	-108.3	0.5	0.0156	µg/L	0.0156	ppb	13:34:11
2	Cr 267.716†	83.7	7.7	0.1786	µg/L	0.1786	ppb	13:34:11
2	Cu 324.752†	2344.9	131.4	0.6784	µg/L	0.6784	ppb	13:33:51
2	Mn 257.610†	383.4	11.2	0.0190	µg/L	0.0190	ppb	13:33:51
2	Mo 202.031†	16.4	6.1	0.7267	µg/L	0.7267	ppb	13:34:11
2	Ni 231.604†	-101.6	5.5	0.2066	µg/L	0.2066	ppb	13:34:11
2	P 214.914†	55.4	4.4	4.1487	µg/L	4.1487	ppb	13:34:11
2	Pb 220.353†	176.6	16.5	3.2626	µg/L	3.2626	ppb	13:34:11
2	S 181.975 Axial†	49.1	-0.2	-0.6206	µg/L	-0.6206	ppb	13:34:11
2	Sb 206.836†	52.0	-8.5	-4.5147	µg/L	-4.5147	ppb	13:34:11
2	Se 196.026†	-48.5	-1.1	-2.2670	µg/L	-2.2670	ppb	13:34:11
2	SiO2†	1323.0	213.3	25.553	µg/L	25.553	ppb	13:33:51
2	Si 251.611†	376.3	102.1	5.0827	µg/L	5.0827	ppb	13:34:11
2	Sn 189.927†	19.7	-2.2	-0.6819	µg/L	-0.6819	ppb	13:34:11
2	Ti 334.940†	-389.6	72.9	0.2101	µg/L	0.2101	ppb	13:33:51
2	Tl 190.801†	-24.2	0.5	0.2322	µg/L	0.2322	ppb	13:34:11
2	U 367.007†	443.5	-67.5	-22.46	µg/L	-22.46	ppb	13:33:51
2	V 292.402†	18.0	-56.8	-0.5848	µg/L	-0.5848	ppb	13:33:51
2	Zn 213.857†	744.5	78.2	1.0600	µg/L	1.0600	ppb	13:34:11
3	Sc RADIAL	6043.4	6043.4	93.9	%			13:32:59
3	Al 396.153Radial†	-155.0	10.3	10.758	µg/L	10.758	ppb	13:32:59
3	Ca 317.933Radial†	41.9	-2.4	-2.2751	µg/L	-2.2751	ppb	13:33:19
3	Fe 238.204 Radial†	32.9	-5.0	-5.3653	µg/L	-5.3653	ppb	13:33:19
3	K 766.490 Radial†	715.3	99.9	86.767	µg/L	86.767	ppb	13:32:59
3	Mg 279.077 IEC†	11.6	4.1	31.847	µg/L	31.847	ppb	13:33:19
3	Na 589.592 Radial†	-136.9	37.3	220.57	µg/L	220.57	ppb	13:32:59
3	Sr 421.552†	-871.9	-42.2	-0.6199	µg/L	-0.6199	ppb	13:32:59
3	Sc 361.383	531735.4	531735.4	93.802	%			13:34:16
3	Y 371.029	483815.9	483815.9	92.901	%			13:34:16
3	Ag 328.068†	-348.5	-124.7	-0.8534	µg/L	-0.8534	ppb	13:34:16
3	As 188.979†	-8.9	2.9	2.4388	µg/L	2.4388	ppb	13:34:36
3	B 249.677†	256.3	47.2	1.5464	µg/L	1.5464	ppb	13:34:16
3	Ba 233.527†	-56.8	-6.4	-0.0669	µg/L	-0.0669	ppb	13:34:36
3	Be 313.107†	-5215.2	-51.5	-0.0285	µg/L	-0.0285	ppb	13:34:16
3	Cd 226.502†	-153.3	-5.0	-0.0797	µg/L	-0.0797	ppb	13:34:36
3	Co 228.616†	-109.0	-0.8	-0.0258	µg/L	-0.0258	ppb	13:34:36
3	Cr 267.716†	80.9	5.2	0.1159	µg/L	0.1159	ppb	13:34:36
3	Cu 324.752†	2270.3	65.5	0.3420	µg/L	0.3420	ppb	13:34:16
3	Mn 257.610†	387.1	17.4	0.0271	µg/L	0.0271	ppb	13:34:16
3	Mo 202.031†	7.6	-3.2	-0.3829	µg/L	-0.3829	ppb	13:34:36
3	Ni 231.604†	-107.0	-0.8	-0.0298	µg/L	-0.0298	ppb	13:34:36
3	P 214.914†	65.9	15.9	15.014	µg/L	15.014	ppb	13:34:36
3	Pb 220.353†	160.9	0.7	0.1337	µg/L	0.1337	ppb	13:34:36
3	S 181.975 Axial†	48.1	-1.0	-2.7629	µg/L	-2.7629	ppb	13:34:36
3	Sb 206.836†	56.6	-3.4	-1.8076	µg/L	-1.8076	ppb	13:34:36
3	Se 196.026†	-53.9	-7.2	-13.692	µg/L	-13.692	ppb	13:34:36
3	SiO2†	1264.3	158.4	18.292	µg/L	18.292	ppb	13:34:16
3	Si 251.611†	384.5	113.0	5.5483	µg/L	5.5483	ppb	13:34:36
3	Sn 189.927†	22.5	0.9	0.2791	µg/L	0.2791	ppb	13:34:36
3	Ti 334.940†	-279.4	188.1	0.5165	µg/L	0.5165	ppb	13:34:16
3	Tl 190.801†	-28.6	-4.3	-2.1765	µg/L	-2.1765	ppb	13:34:36
3	U 367.007†	490.9	-14.4	-4.759	µg/L	-4.759	ppb	13:34:16
3	V 292.402†	136.4	69.5	0.6954	µg/L	0.6954	ppb	13:34:16
3	Zn 213.857†	745.7	83.8	1.1386	µg/L	1.1386	ppb	13:34:36

Mean Data: 1202969094|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	534265.8	94.249	%	0.4172				0.44%
Sc RADIAL	5994.9	93.2	%	0.78				0.84%
Y 371.029	486293.1	93.377	%	0.4551				0.49%
Ag 328.068†	-78.6	-0.5391	µg/L	0.31595	-0.5391	ppb	0.31595	58.61%
Al 396.153Radial†	-2.4	-2.4937	µg/L	11.58311	-2.4937	ppb	11.58311	464.50%
As 188.979†	-2.5	-2.0990	µg/L	4.66252	-2.0990	ppb	4.66252	222.13%
B 249.677†	45.9	1.5038	µg/L	0.23832	1.5038	ppb	0.23832	15.85%
Ba 233.527†	-18.6	-0.1977	µg/L	0.12102	-0.1977	ppb	0.12102	61.20%

Be 313.107†	-77.1	-0.0432	µg/L	0.01458	-0.0432	ppb	0.01458 33.75%
Ca 317.933Radial†	3.5	3.4103	µg/L	5.51688	3.4103	ppb	5.51688 161.77%
Cd 226.502†	12.3	0.1987	µg/L	0.24913	0.1987	ppb	0.24913 125.37%
Co 228.616†	-1.1	-0.0323	µg/L	0.05137	-0.0323	ppb	0.05137 159.14%
Cr 267.716†	5.3	0.1204	µg/L	0.05616	0.1204	ppb	0.05616 46.65%
Cu 324.752†	103.3	0.5381	µg/L	0.17506	0.5381	ppb	0.17506 32.53%
Fe 238.204 Radial†	0.7	0.7884	µg/L	5.36837	0.7884	ppb	5.36837 680.96%
K 766.490 Radial†	96.9	84.106	µg/L	12.2599	84.106	ppb	12.2599 14.58%
Mg 279.077 IEC†	3.3	26.094	µg/L	28.3799	26.094	ppb	28.3799 108.76%
Mn 257.610†	29.0	0.0469	µg/L	0.04161	0.0469	ppb	0.04161 88.68%
Mo 202.031†	3.1	0.3685	µg/L	0.65100	0.3685	ppb	0.65100 176.65%
Na 589.592 Radial†	32.0	189.13	µg/L	41.386	189.13	ppb	41.386 21.88%
Ni 231.604†	4.0	0.1485	µg/L	0.15748	0.1485	ppb	0.15748 106.06%
P 214.914†	8.9	8.3670	µg/L	5.82548	8.3670	ppb	5.82548 69.62%
Pb 220.353†	6.7	1.3314	µg/L	1.68852	1.3314	ppb	1.68852 126.83%
S 181.975 Axial†	0.0	0.0947	µg/L	3.27436	0.0947	ppb	3.27436 >999.9%
Sb 206.836†	-2.6	-1.3974	µg/L	3.34128	-1.3974	ppb	3.34128 239.10%
Se 196.026†	-3.2	-6.1473	µg/L	6.53478	-6.1473	ppb	6.53478 106.30%
SiO2†	193.9	22.873	µg/L	3.9864	22.873	ppb	3.9864 17.43%
Si 251.611†	99.7	4.8074	µg/L	0.91035	4.8074	ppb	0.91035 18.94%
Sn 189.927†	0.4	0.1225	µg/L	0.73864	0.1225	ppb	0.73864 603.13%
Sr 421.552†	-38.4	-0.5644	µg/L	0.05119	-0.5644	ppb	0.05119 9.07%
Ti 334.940†	104.5	0.2905	µg/L	0.19842	0.2905	ppb	0.19842 68.30%
Tl 190.801†	-5.8	-2.9117	µg/L	3.56880	-2.9117	ppb	3.56880 122.57%
U 367.007†	-29.4	-9.784	µg/L	11.0572	-9.784	ppb	11.0572 113.02%
V 292.402†	7.0	0.0673	µg/L	0.64041	0.0673	ppb	0.64041 950.97%
Zn 213.857†	82.6	1.1200	µg/L	0.05324	1.1200	ppb	0.05324 4.75%

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Sequence No.: 2 **Autosampler Location: 302**
Sample ID: 1202969095|1339675|1 **Date Collected: 11/5/2013 13:34:44**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969095|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6058.0	6058.0	94.2	%			13:35:32
1	Al 396.153Radial†	4789.0	5261.6	5454.0	µg/L	5454.0	ppb	13:35:12
1	Ca 317.933Radial†	5186.6	5461.7	5255.8	µg/L	5255.8	ppb	13:35:32
1	Fe 238.204 Radial†	4740.8	4995.1	5374.2	µg/L	5374.2	ppb	13:35:32
1	K 766.490 Radial†	6574.6	6321.2	5486.2	µg/L	5486.2	ppb	13:35:12
1	Mg 279.077 IEC†	667.8	701.0	5503.4	µg/L	5503.4	ppb	13:35:32
1	Na 589.592 Radial†	789.3	1021.3	6035.0	µg/L	6035.0	ppb	13:35:12
1	Sr 421.552†	34821.0	37869.0	556.35	µg/L	556.35	ppb	13:35:12
1	Sc 361.383	544071.7	544071.7	95.978	%			13:36:29
1	Y 371.029	486995.1	486995.1	93.512	%			13:36:29
1	Ag 328.068†	73304.9	76623.3	530.87	µg/L	530.87	ppb	13:36:35
1	As 188.979†	572.3	608.6	506.38	µg/L	506.38	ppb	13:36:55
1	B 249.677†	14877.0	15274.4	509.29	µg/L	509.29	ppb	13:36:35
1	Ba 233.527†	47980.8	50045.4	531.60	µg/L	531.60	ppb	13:36:35
1	Be 313.107†	942076.1	987058.2	528.44	µg/L	528.44	ppb	13:36:29
1	Cd 226.502†	30312.0	31740.6	513.00	µg/L	513.00	ppb	13:36:35
1	Co 228.616†	16716.9	17532.8	523.82	µg/L	523.82	ppb	13:36:35
1	Cr 267.716†	21437.2	22254.4	477.76	µg/L	477.76	ppb	13:36:35
1	Cu 324.752†	92663.7	94191.6	496.37	µg/L	496.37	ppb	13:36:35
1	Mn 257.610†	279700.7	291025.1	480.42	µg/L	480.42	ppb	13:36:35
1	Mo 202.031†	3828.6	3977.7	470.91	µg/L	470.91	ppb	13:36:55
1	Ni 231.604†	11661.8	12263.7	459.88	µg/L	459.88	ppb	13:36:55
1	P 214.914†	561.8	531.0	488.13	µg/L	488.13	ppb	13:36:55
1	Pb 220.353†	2733.5	2677.2	528.15	µg/L	528.15	ppb	13:36:55
1	S 181.975 Axial†	1587.7	1601.9	4395.9	µg/L	4395.9	ppb	13:36:55
1	Sb 206.836†	892.8	866.5	454.40	µg/L	454.40	ppb	13:36:55
1	Se 196.026†	167.6	224.9	438.40	µg/L	438.40	ppb	13:36:55
1	SiO2†	74319.5	76244.1	9692.9	µg/L	9692.9	ppb	13:36:35
1	Si 251.611†	76367.1	79270.0	4471.4	µg/L	4471.4	ppb	13:36:35
1	Sn 189.927†	1478.6	1517.4	467.55	µg/L	467.55	ppb	13:36:55
1	Ti 334.940†	170577.9	178211.2	487.45	µg/L	487.45	ppb	13:36:35
1	Tl 190.801†	888.2	951.6	478.73	µg/L	478.73	ppb	13:36:55
1	U 367.007†	1901.8	1443.8	453.1	µg/L	453.1	ppb	13:36:35
1	V 292.402†	45525.6	47357.3	486.32	µg/L	486.32	ppb	13:36:35
1	Zn 213.857†	33631.0	34329.0	462.89	µg/L	462.89	ppb	13:36:35
2	Sc RADIAL	6092.0	6092.0	94.7	%			13:35:57
2	Al 396.153Radial†	4829.3	5275.9	5468.9	µg/L	5468.9	ppb	13:35:37
2	Ca 317.933Radial†	5215.9	5461.9	5256.0	µg/L	5256.0	ppb	13:35:57
2	Fe 238.204 Radial†	4773.1	5001.2	5380.7	µg/L	5380.7	ppb	13:35:57
2	K 766.490 Radial†	6687.2	6401.2	5555.6	µg/L	5555.6	ppb	13:35:37
2	Mg 279.077 IEC†	662.5	691.4	5428.0	µg/L	5428.0	ppb	13:35:57
2	Na 589.592 Radial†	856.7	1087.9	6428.4	µg/L	6428.4	ppb	13:35:37
2	Sr 421.552†	35206.8	38070.4	559.31	µg/L	559.31	ppb	13:35:37
2	Sc 361.383	544932.1	544932.1	96.130	%			13:37:00
2	Y 371.029	487633.9	487633.9	93.634	%			13:37:00
2	Ag 328.068†	73213.6	76407.7	529.38	µg/L	529.38	ppb	13:37:05
2	As 188.979†	577.3	613.0	509.95	µg/L	509.95	ppb	13:37:25
2	B 249.677†	14738.6	15105.9	503.60	µg/L	503.60	ppb	13:37:05
2	Ba 233.527†	47850.5	49830.9	529.32	µg/L	529.32	ppb	13:37:05
2	Be 313.107†	945497.4	989067.5	529.51	µg/L	529.51	ppb	13:37:00
2	Cd 226.502†	30229.6	31605.0	510.81	µg/L	510.81	ppb	13:37:05
2	Co 228.616†	16714.1	17502.3	522.92	µg/L	522.92	ppb	13:37:05
2	Cr 267.716†	21399.0	22179.4	476.17	µg/L	476.17	ppb	13:37:05
2	Cu 324.752†	92377.5	93741.4	493.99	µg/L	493.99	ppb	13:37:05
2	Mn 257.610†	278959.9	289794.3	478.39	µg/L	478.39	ppb	13:37:05
2	Mo 202.031†	3852.7	3996.5	473.13	µg/L	473.13	ppb	13:37:25
2	Ni 231.604†	11699.1	12283.4	460.62	µg/L	460.62	ppb	13:37:25
2	P 214.914†	575.9	544.7	501.09	µg/L	501.09	ppb	13:37:25
2	Pb 220.353†	2742.4	2682.0	529.10	µg/L	529.10	ppb	13:37:25

2	S 181.975 Axial†	1608.6	1621.1	4448.3	µg/L	4448.3	ppb	13:37:25
2	Sb 206.836†	906.7	879.4	461.32	µg/L	461.32	ppb	13:37:25
2	Se 196.026†	170.7	227.8	443.87	µg/L	443.87	ppb	13:37:25
2	SiO2†	74124.6	75919.1	9649.3	µg/L	9649.3	ppb	13:37:05
2	Si 251.611†	76207.8	78978.7	4453.9	µg/L	4453.9	ppb	13:37:05
2	Sn 189.927†	1492.5	1529.5	471.23	µg/L	471.23	ppb	13:37:25
2	Ti 334.940†	169863.7	177187.7	484.66	µg/L	484.66	ppb	13:37:05
2	Tl 190.801†	882.5	944.2	474.99	µg/L	474.99	ppb	13:37:25
2	U 367.007†	1846.5	1383.1	432.8	µg/L	432.8	ppb	13:37:05
2	V 292.402†	45463.6	47217.9	484.91	µg/L	484.91	ppb	13:37:05
2	Zn 213.857†	33584.7	34225.4	461.48	µg/L	461.48	ppb	13:37:05
3	Sc RADIAL	6085.0	6085.0	94.6	%			13:36:23
3	Al 396.153Radial†	4788.4	5238.5	5429.7	µg/L	5429.7	ppb	13:36:03
3	Ca 317.933Radial†	5208.3	5460.2	5254.3	µg/L	5254.3	ppb	13:36:23
3	Fe 238.204 Radial†	4768.2	5001.8	5381.3	µg/L	5381.3	ppb	13:36:23
3	K 766.490 Radial†	6571.6	6287.0	5456.4	µg/L	5456.4	ppb	13:36:03
3	Mg 279.077 IEC†	672.7	702.9	5518.7	µg/L	5518.7	ppb	13:36:23
3	Na 589.592 Radial†	828.3	1058.9	6257.0	µg/L	6257.0	ppb	13:36:03
3	Sr 421.552†	34878.6	37766.1	554.84	µg/L	554.84	ppb	13:36:03
3	Sc 361.383	547114.3	547114.3	96.515	%			13:37:31
3	Y 371.029	488882.1	488882.1	93.874	%			13:37:31
3	Ag 328.068†	73665.4	76572.1	530.53	µg/L	530.53	ppb	13:37:36
3	As 188.979†	573.4	606.5	504.62	µg/L	504.62	ppb	13:37:56
3	B 249.677†	14984.5	15299.6	510.15	µg/L	510.15	ppb	13:37:36
3	Ba 233.527†	48427.1	50229.8	533.56	µg/L	533.56	ppb	13:37:36
3	Be 313.107†	945155.2	984789.9	527.22	µg/L	527.22	ppb	13:37:31
3	Cd 226.502†	30625.6	31889.9	515.42	µg/L	515.42	ppb	13:37:36
3	Co 228.616†	16861.5	17585.6	525.40	µg/L	525.40	ppb	13:37:36
3	Cr 267.716†	21592.7	22291.3	478.56	µg/L	478.56	ppb	13:37:36
3	Cu 324.752†	93434.2	94453.0	497.74	µg/L	497.74	ppb	13:37:36
3	Mn 257.610†	281821.8	291602.2	481.37	µg/L	481.37	ppb	13:37:36
3	Mo 202.031†	3852.8	3980.7	471.26	µg/L	471.26	ppb	13:37:56
3	Ni 231.604†	11729.1	12265.8	459.96	µg/L	459.96	ppb	13:37:56
3	P 214.914†	588.4	555.3	511.01	µg/L	511.01	ppb	13:37:56
3	Pb 220.353†	2739.3	2667.4	526.22	µg/L	526.22	ppb	13:37:56
3	S 181.975 Axial†	1603.5	1609.1	4415.5	µg/L	4415.5	ppb	13:37:56
3	Sb 206.836†	912.7	881.9	462.56	µg/L	462.56	ppb	13:37:56
3	Se 196.026†	177.3	234.1	455.79	µg/L	455.79	ppb	13:37:56
3	SiO2†	74957.9	76475.0	9723.1	µg/L	9723.1	ppb	13:37:36
3	Si 251.611†	77071.9	79557.8	4488.1	µg/L	4488.1	ppb	13:37:36
3	Sn 189.927†	1482.4	1512.9	466.14	µg/L	466.14	ppb	13:37:56
3	Ti 334.940†	171625.1	178307.9	487.71	µg/L	487.71	ppb	13:37:36
3	Tl 190.801†	892.0	950.4	478.12	µg/L	478.12	ppb	13:37:56
3	U 367.007†	1889.0	1419.6	445.0	µg/L	445.0	ppb	13:37:36
3	V 292.402†	45963.5	47547.2	488.24	µg/L	488.24	ppb	13:37:36
3	Zn 213.857†	33928.0	34441.8	464.42	µg/L	464.42	ppb	13:37:36

Mean Data: 1202969095|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	545372.7	96.208	%	0.2767				0.29%
Sc RADIAL	6078.4	94.5	%	0.28				0.29%
Y 371.029	487837.0	93.673	%	0.1843				0.20%
Ag 328.068†	76534.3	530.26	µg/L	0.780	530.26	ppb	0.780	0.15%
Al 396.153Radial†	5258.7	5450.9	µg/L	19.80	5450.9	ppb	19.80	0.36%
As 188.979†	609.4	506.98	µg/L	2.718	506.98	ppb	2.718	0.54%
B 249.677†	15226.6	507.68	µg/L	3.561	507.68	ppb	3.561	0.70%
Ba 233.527†	50035.4	531.50	µg/L	2.121	531.50	ppb	2.121	0.40%
Be 313.107†	986971.8	528.39	µg/L	1.144	528.39	ppb	1.144	0.22%
Ca 317.933Radial†	5461.3	5255.3	µg/L	0.91	5255.3	ppb	0.91	0.02%
Cd 226.502†	31745.1	513.08	µg/L	2.304	513.08	ppb	2.304	0.45%
Co 228.616†	17540.2	524.05	µg/L	1.257	524.05	ppb	1.257	0.24%
Cr 267.716†	22241.7	477.50	µg/L	1.221	477.50	ppb	1.221	0.26%
Cu 324.752†	94128.7	496.03	µg/L	1.901	496.03	ppb	1.901	0.38%
Fe 238.204 Radial†	4999.4	5378.7	µg/L	3.94	5378.7	ppb	3.94	0.07%
K 766.490 Radial†	6336.5	5499.4	µg/L	50.90	5499.4	ppb	50.90	0.93%
Mg 279.077 IEC†	698.4	5483.4	µg/L	48.57	5483.4	ppb	48.57	0.89%
Mn 257.610†	290807.2	480.06	µg/L	1.522	480.06	ppb	1.522	0.32%
Mo 202.031†	3984.9	471.76	µg/L	1.192	471.76	ppb	1.192	0.25%
Na 589.592 Radial†	1056.0	6240.1	µg/L	197.25	6240.1	ppb	197.25	3.16%

Ni 231.604†	12271.0	460.15	µg/L	0.405	460.15	ppb	0.405	0.09%
P 214.914†	543.7	500.07	µg/L	11.473	500.07	ppb	11.473	2.29%
Pb 220.353†	2675.6	527.82	µg/L	1.468	527.82	ppb	1.468	0.28%
S 181.975 Axial†	1610.7	4419.9	µg/L	26.52	4419.9	ppb	26.52	0.60%
Sb 206.836†	875.9	459.43	µg/L	4.398	459.43	ppb	4.398	0.96%
Se 196.026†	228.9	446.02	µg/L	8.888	446.02	ppb	8.888	1.99%
SiO2†	76212.7	9688.4	µg/L	37.10	9688.4	ppb	37.10	0.38%
Si 251.611†	79268.8	4471.1	µg/L	17.10	4471.1	ppb	17.10	0.38%
Sn 189.927†	1519.9	468.31	µg/L	2.628	468.31	ppb	2.628	0.56%
Sr 421.552†	37901.8	556.83	µg/L	2.274	556.83	ppb	2.274	0.41%
Ti 334.940†	177902.2	486.60	µg/L	1.694	486.60	ppb	1.694	0.35%
Tl 190.801†	948.8	477.28	µg/L	2.009	477.28	ppb	2.009	0.42%
U 367.007†	1415.5	443.6	µg/L	10.18	443.6	ppb	10.18	2.30%
V 292.402†	47374.1	486.49	µg/L	1.671	486.49	ppb	1.671	0.34%
Zn 213.857†	34332.1	462.93	µg/L	1.472	462.93	ppb	1.472	0.32%

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Sequence No.: 3 **Autosampler Location: 303**
Sample ID: 335304011|1339675|1 **Date Collected: 11/5/2013 13:38:04**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304011|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6017.3	6017.3	93.5	%			13:38:52
1	Al 396.153Radial†	-151.6	13.3	13.326	µg/L	13.326	ppb	13:38:52
1	Ca 317.933Radial†	153404.3	163984.3	157820	µg/L	157820	ppb	13:38:32
1	Fe 238.204 Radial†	1548.3	1615.5	1736.5	µg/L	1736.5	ppb	13:38:52
1	K 766.490 Radial†	17089.1	17611.3	15240	µg/L	15240	ppb	13:38:32
1	Mg 279.077 IEC†	11260.9	12032.7	94468	µg/L	94468	ppb	13:38:52
1	Na 589.592 Radial†	20118.8	21695.6	128200	µg/L	128200	ppb	13:38:32
1	Sr 421.552†	146657.1	157702.8	2316.2	µg/L	2316.2	ppb	13:38:32
1	Sc 361.383	517100.4	517100.4	91.220	%			13:39:49
1	Y 371.029	458181.8	458181.8	87.979	%			13:39:49
1	Ag 328.068†	-431.4	-226.1	0.5650	µg/L	0.5650	ppb	13:39:49
1	As 188.979†	-17.2	-6.5	-5.2487	µg/L	-5.2487	ppb	13:40:09
1	B 249.677†	22559.3	24504.5	815.85	µg/L	815.85	ppb	13:39:49
1	Ba 233.527†	48107.7	52792.0	560.19	µg/L	560.19	ppb	13:39:49
1	Be 313.107†	-7968.7	-3227.4	-0.0717	µg/L	-0.0717	ppb	13:39:49
1	Cd 226.502†	-150.2	-6.3	-0.2664	µg/L	-0.2664	ppb	13:40:09
1	Co 228.616†	-62.5	46.9	1.7696	µg/L	1.7696	ppb	13:40:09
1	Cr 267.716†	-8.3	-90.1	0.4826	µg/L	0.4826	ppb	13:40:09
1	Cu 324.752†	3257.0	1215.7	6.4992	µg/L	6.4992	ppb	13:39:49
1	Mn 257.610†	47087.5	51224.1	81.303	µg/L	81.303	ppb	13:39:49
1	Mo 202.031†	18.5	9.0	1.1321	µg/L	1.1321	ppb	13:40:09
1	Ni 231.604†	354.4	501.7	18.873	µg/L	18.873	ppb	13:40:09
1	P 214.914†	145.4	105.0	97.777	µg/L	97.777	ppb	13:40:09
1	Pb 220.353†	59.0	-106.2	-10.494	µg/L	-10.494	ppb	13:40:09
1	S 181.975 Axial†	1316.4	1390.8	3804.4	µg/L	3804.4	ppb	13:40:09
1	Sb 206.836†	64.8	7.4	3.6746	µg/L	3.6746	ppb	13:40:09
1	Se 196.026†	-50.8	-5.4	-4.1486	µg/L	-4.1486	ppb	13:40:09
1	SiO2†	267915.2	292511.3	37184	µg/L	37184	ppb	13:39:49
1	Si 251.611†	277779.3	304217.3	17236	µg/L	17236	ppb	13:39:49
1	Sn 189.927†	-216.3	-260.2	-35.273	µg/L	-35.273	ppb	13:40:09
1	Ti 334.940†	-2412.7	-2158.9	-0.5633	µg/L	-0.5633	ppb	13:39:49
1	Tl 190.801†	-37.0	-14.4	-7.1676	µg/L	-7.1676	ppb	13:40:09
1	U 367.007†	584.8	103.5	-3.327	µg/L	-3.327	ppb	13:39:49
1	V 292.402†	367.8	327.4	3.3608	µg/L	3.3608	ppb	13:39:49
1	Zn 213.857†	1127.8	525.1	4.8176	µg/L	4.8176	ppb	13:40:09
2	Sc RADIAL	6035.2	6035.2	93.8	%			13:39:17
2	Al 396.153Radial†	-170.9	-6.9	-7.6792	µg/L	-7.6792	ppb	13:39:17
2	Ca 317.933Radial†	153703.2	163816.3	157660	µg/L	157660	ppb	13:38:57
2	Fe 238.204 Radial†	1557.0	1619.9	1741.1	µg/L	1741.1	ppb	13:39:17
2	K 766.490 Radial†	17162.7	17635.6	15263	µg/L	15263	ppb	13:38:57
2	Mg 279.077 IEC†	11271.3	12008.1	94275	µg/L	94275	ppb	13:39:17
2	Na 589.592 Radial†	19715.9	21202.2	125280	µg/L	125280	ppb	13:38:57
2	Sr 421.552†	147259.7	157879.9	2318.8	µg/L	2318.8	ppb	13:38:57
2	Sc 361.383	516130.3	516130.3	91.049	%			13:40:15
2	Y 371.029	457164.0	457164.0	87.784	%			13:40:15
2	Ag 328.068†	-415.1	-209.0	0.6854	µg/L	0.6854	ppb	13:40:15
2	As 188.979†	-12.9	-1.7	-1.2758	µg/L	-1.2758	ppb	13:40:35
2	B 249.677†	22613.1	24610.1	819.39	µg/L	819.39	ppb	13:40:15
2	Ba 233.527†	47932.5	52698.6	559.20	µg/L	559.20	ppb	13:40:15
2	Be 313.107†	-8008.7	-3287.7	-0.1039	µg/L	-0.1039	ppb	13:40:15
2	Cd 226.502†	-144.2	0.0	-0.1646	µg/L	-0.1646	ppb	13:40:35
2	Co 228.616†	-77.1	30.7	1.2818	µg/L	1.2818	ppb	13:40:35
2	Cr 267.716†	0.8	-80.1	0.6875	µg/L	0.6875	ppb	13:40:35
2	Cu 324.752†	3343.8	1317.7	7.0435	µg/L	7.0435	ppb	13:40:15
2	Mn 257.610†	47071.7	51303.8	81.442	µg/L	81.442	ppb	13:40:15
2	Mo 202.031†	0.9	-10.3	-1.1428	µg/L	-1.1428	ppb	13:40:35
2	Ni 231.604†	376.0	526.2	19.791	µg/L	19.791	ppb	13:40:35
2	P 214.914†	157.6	118.7	110.72	µg/L	110.72	ppb	13:40:35
2	Pb 220.353†	39.8	-127.1	-14.633	µg/L	-14.633	ppb	13:40:35

2	S 181.975 Axial†	1317.2	1394.4	3814.3	µg/L	3814.3	ppb	13:40:35
2	Sb 206.836†	67.1	9.9	4.9920	µg/L	4.9920	ppb	13:40:35
2	Se 196.026†	-61.0	-16.6	-25.561	µg/L	-25.561	ppb	13:40:35
2	SiO2†	267323.9	292413.9	37171	µg/L	37171	ppb	13:40:15
2	Si 251.611†	277534.1	304520.3	17253	µg/L	17253	ppb	13:40:15
2	Sn 189.927†	-230.2	-275.9	-40.129	µg/L	-40.129	ppb	13:40:35
2	Ti 334.940†	-2378.3	-2126.2	-0.4822	µg/L	-0.4822	ppb	13:40:15
2	Tl 190.801†	-40.7	-18.5	-9.2261	µg/L	-9.2261	ppb	13:40:35
2	U 367.007†	605.7	127.6	4.708	µg/L	4.708	ppb	13:40:15
2	V 292.402†	416.1	381.1	3.8866	µg/L	3.8866	ppb	13:40:15
2	Zn 213.857†	1126.9	526.5	4.8328	µg/L	4.8328	ppb	13:40:35
3	Sc RADIAL	6042.6	6042.6	93.9	%			13:39:43
3	Al 396.153Radial†	-149.0	16.7	16.994	µg/L	16.994	ppb	13:39:43
3	Ca 317.933Radial†	154000.5	163932.1	157770	µg/L	157770	ppb	13:39:23
3	Fe 238.204 Radial†	1563.5	1624.8	1746.4	µg/L	1746.4	ppb	13:39:43
3	K 766.490 Radial†	17265.1	17722.1	15337	µg/L	15337	ppb	13:39:23
3	Mg 279.077 IEC†	11332.6	12058.6	94671	µg/L	94671	ppb	13:39:43
3	Na 589.592 Radial†	20070.5	21554.0	127360	µg/L	127360	ppb	13:39:23
3	Sr 421.552†	147327.9	157760.2	2317.1	µg/L	2317.1	ppb	13:39:23
3	Sc 361.383	513372.3	513372.3	90.563	%			13:40:40
3	Y 371.029	454419.6	454419.6	87.257	%			13:40:40
3	Ag 328.068†	-376.2	-168.5	0.9606	µg/L	0.9606	ppb	13:40:40
3	As 188.979†	-6.5	5.2	4.4977	µg/L	4.4977	ppb	13:41:00
3	B 249.677†	22424.2	24535.0	816.82	µg/L	816.82	ppb	13:40:40
3	Ba 233.527†	47707.6	52733.2	559.56	µg/L	559.56	ppb	13:40:40
3	Be 313.107†	-8010.8	-3337.3	-0.1265	µg/L	-0.1265	ppb	13:40:40
3	Cd 226.502†	-146.8	-3.7	-0.2265	µg/L	-0.2265	ppb	13:41:00
3	Co 228.616†	-70.0	38.1	1.5033	µg/L	1.5033	ppb	13:41:00
3	Cr 267.716†	-2.7	-84.0	0.6064	µg/L	0.6064	ppb	13:41:00
3	Cu 324.752†	3120.7	1091.1	5.8578	µg/L	5.8578	ppb	13:40:40
3	Mn 257.610†	46829.5	51314.2	81.446	µg/L	81.446	ppb	13:40:40
3	Mo 202.031†	7.7	-2.8	-0.2532	µg/L	-0.2532	ppb	13:41:00
3	Ni 231.604†	343.7	492.8	18.539	µg/L	18.539	ppb	13:41:00
3	P 214.914†	153.7	115.3	107.55	µg/L	107.55	ppb	13:41:00
3	Pb 220.353†	73.2	-90.0	-7.3241	µg/L	-7.3241	ppb	13:41:00
3	S 181.975 Axial†	1316.7	1401.6	3834.1	µg/L	3834.1	ppb	13:41:00
3	Sb 206.836†	70.0	13.5	6.9017	µg/L	6.9017	ppb	13:41:00
3	Se 196.026†	-63.7	-20.0	-31.809	µg/L	-31.809	ppb	13:41:00
3	SiO2†	266073.7	292610.8	37194	µg/L	37194	ppb	13:40:40
3	Si 251.611†	275927.6	304384.0	17244	µg/L	17244	ppb	13:40:40
3	Sn 189.927†	-221.7	-267.9	-37.683	µg/L	-37.683	ppb	13:41:00
3	Ti 334.940†	-2419.7	-2185.9	-0.6509	µg/L	-0.6509	ppb	13:40:40
3	Tl 190.801†	-42.1	-20.3	-10.109	µg/L	-10.109	ppb	13:41:00
3	U 367.007†	639.8	168.7	18.35	µg/L	18.35	ppb	13:40:40
3	V 292.402†	338.3	297.6	3.0622	µg/L	3.0622	ppb	13:40:40
3	Zn 213.857†	1143.1	551.0	5.1694	µg/L	5.1694	ppb	13:41:00

Mean Data: 335304011|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	515534.3	90.944	%	0.3412				0.38%
Sc RADIAL	6031.7	93.7	%	0.20				0.22%
Y 371.029	456588.4	87.673	%	0.3737				0.43%
Ag 328.068†	-201.2	0.7370	µg/L	0.20277	0.7370	ppb	0.20277	27.51%
Al 396.153Radial†	7.7	7.5470	µg/L	13.31325	7.5470	ppb	13.31325	176.40%
As 188.979†	-1.0	-0.6756	µg/L	4.90085	-0.6756	ppb	4.90085	725.43%
B 249.677†	24549.9	817.35	µg/L	1.828	817.35	ppb	1.828	0.22%
Ba 233.527†	52741.3	559.65	µg/L	0.501	559.65	ppb	0.501	0.09%
Be 313.107†	-3284.1	-0.1007	µg/L	0.02756	-0.1007	ppb	0.02756	27.36%
Ca 317.933Radial†	163910.9	157750	µg/L	82.7	157750	ppb	82.7	0.05%
Cd 226.502†	-3.3	-0.2191	µg/L	0.05127	-0.2191	ppb	0.05127	23.40%
Co 228.616†	38.6	1.5182	µg/L	0.24425	1.5182	ppb	0.24425	16.09%
Cr 267.716†	-84.7	0.5922	µg/L	0.10320	0.5922	ppb	0.10320	17.43%
Cu 324.752†	1208.2	6.4668	µg/L	0.59348	6.4668	ppb	0.59348	9.18%
Fe 238.204 Radial†	1620.1	1741.3	µg/L	4.96	1741.3	ppb	4.96	0.28%
K 766.490 Radial†	17656.3	15280	µg/L	50.6	15280	ppb	50.6	0.33%
Mg 279.077 IEC†	12033.1	94471	µg/L	198.3	94471	ppb	198.3	0.21%
Mn 257.610†	51280.7	81.397	µg/L	0.0811	81.397	ppb	0.0811	0.10%
Mo 202.031†	-1.4	-0.0880	µg/L	1.14642	-0.0880	ppb	1.14642	>999.9%
Na 589.592 Radial†	21483.9	126950	µg/L	1501.1	126950	ppb	1501.1	1.18%

Ni 231.604†	506.9	19.068	µg/L	0.6483	19.068	ppb	0.6483	3.40%
P 214.914†	113.0	105.35	µg/L	6.746	105.35	ppb	6.746	6.40%
Pb 220.353†	-107.7	-10.817	µg/L	3.6653	-10.817	ppb	3.6653	33.88%
S 181.975 Axial†	1395.6	3817.6	µg/L	15.11	3817.6	ppb	15.11	0.40%
Sb 206.836†	10.3	5.1894	µg/L	1.62262	5.1894	ppb	1.62262	31.27%
Se 196.026†	-14.0	-20.506	µg/L	14.5065	-20.506	ppb	14.5065	70.74%
SiO2†	292512.0	37183	µg/L	11.9	37183	ppb	11.9	0.03%
Si 251.611†	304373.9	17244	µg/L	8.6	17244	ppb	8.6	0.05%
Sn 189.927†	-268.0	-37.695	µg/L	2.4281	-37.695	ppb	2.4281	6.44%
Sr 421.552†	157781.0	2317.4	µg/L	1.33	2317.4	ppb	1.33	0.06%
Ti 334.940†	-2157.0	-0.5655	µg/L	0.08440	-0.5655	ppb	0.08440	14.93%
Tl 190.801†	-17.7	-8.8343	µg/L	1.50944	-8.8343	ppb	1.50944	17.09%
U 367.007†	133.3	6.576	µg/L	10.9580	6.576	ppb	10.9580	166.63%
V 292.402†	335.4	3.4365	µg/L	0.41735	3.4365	ppb	0.41735	12.14%
Zn 213.857†	534.2	4.9399	µg/L	0.19885	4.9399	ppb	0.19885	4.03%

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Sequence No.: 4 **Autosampler Location: 304**
Sample ID: 1202969096|1339675|1 **Date Collected: 11/5/2013 13:41:08**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969096|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6038.8	6038.8	93.9	%			13:41:56
1	Al 396.153Radial†	-155.1	10.1	10.087	µg/L	10.087	ppb	13:41:56
1	Ca 317.933Radial†	154420.8	164484.6	158300	µg/L	158300	ppb	13:41:36
1	Fe 238.204 Radial†	1598.1	1662.7	1787.2	µg/L	1787.2	ppb	13:41:56
1	K 766.490 Radial†	17159.0	17620.8	15246	µg/L	15246	ppb	13:41:36
1	Mg 279.077 IEC†	11276.2	12006.2	94260	µg/L	94260	ppb	13:41:56
1	Na 589.592 Radial†	20828.2	22375.0	132210	µg/L	132210	ppb	13:41:36
1	Sr 421.552†	148570.1	159183.9	2338.0	µg/L	2338.0	ppb	13:41:36
1	Sc 361.383	516597.0	516597.0	91.132	%			13:42:53
1	Y 371.029	457552.3	457552.3	87.858	%			13:42:53
1	Ag 328.068†	-377.1	-166.9	0.9905	µg/L	0.9905	ppb	13:42:53
1	As 188.979†	-6.8	4.9	4.2282	µg/L	4.2282	ppb	13:43:13
1	B 249.677†	22575.3	24546.2	817.24	µg/L	817.24	ppb	13:42:53
1	Ba 233.527†	47913.4	52630.2	558.47	µg/L	558.47	ppb	13:42:53
1	Be 313.107†	-8246.8	-3541.0	-0.2321	µg/L	-0.2321	ppb	13:42:53
1	Cd 226.502†	-136.3	8.9	-0.0283	µg/L	-0.0283	ppb	13:43:13
1	Co 228.616†	-60.2	49.3	1.8358	µg/L	1.8358	ppb	13:43:13
1	Cr 267.716†	27.7	-50.6	1.3204	µg/L	1.3204	ppb	13:43:13
1	Cu 324.752†	2152.6	7.3	0.1451	µg/L	0.1451	ppb	13:42:53
1	Mn 257.610†	47015.5	51195.4	81.268	µg/L	81.268	ppb	13:42:53
1	Mo 202.031†	1.0	-10.2	-1.1371	µg/L	-1.1371	ppb	13:43:13
1	Ni 231.604†	185.6	316.9	11.939	µg/L	11.939	ppb	13:43:13
1	P 214.914†	149.2	109.4	102.02	µg/L	102.02	ppb	13:43:13
1	Pb 220.353†	84.9	-77.7	-4.8501	µg/L	-4.8501	ppb	13:43:13
1	S 181.975 Axial†	1327.5	1404.4	3841.5	µg/L	3841.5	ppb	13:43:13
1	Sb 206.836†	66.7	9.4	4.7244	µg/L	4.7244	ppb	13:43:13
1	Se 196.026†	-40.1	6.3	18.147	µg/L	18.147	ppb	13:43:13
1	SiO2†	266891.1	291673.8	37076	µg/L	37076	ppb	13:42:53
1	Si 251.611†	276599.1	303218.9	17178	µg/L	17178	ppb	13:42:53
1	Sn 189.927†	-212.3	-256.0	-33.846	µg/L	-33.846	ppb	13:43:13
1	Ti 334.940†	-2390.1	-2136.7	-0.4872	µg/L	-0.4872	ppb	13:42:53
1	Tl 190.801†	-41.5	-19.3	-9.6312	µg/L	-9.6312	ppb	13:43:13
1	U 367.007†	612.7	134.6	6.686	µg/L	6.686	ppb	13:42:53
1	V 292.402†	371.8	332.1	3.3942	µg/L	3.3942	ppb	13:42:53
1	Zn 213.857†	1135.4	534.7	4.9916	µg/L	4.9916	ppb	13:43:13
2	Sc RADIAL	6032.8	6032.8	93.8	%			13:42:22
2	Al 396.153Radial†	-142.7	23.1	23.629	µg/L	23.629	ppb	13:42:22
2	Ca 317.933Radial†	154745.8	164994.6	158790	µg/L	158790	ppb	13:42:02
2	Fe 238.204 Radial†	1607.7	1674.6	1800.0	µg/L	1800.0	ppb	13:42:22
2	K 766.490 Radial†	17272.9	17760.5	15369	µg/L	15369	ppb	13:42:02
2	Mg 279.077 IEC†	11292.9	12036.0	94494	µg/L	94494	ppb	13:42:22
2	Na 589.592 Radial†	20309.0	21843.2	129070	µg/L	129070	ppb	13:42:02
2	Sr 421.552†	148904.7	159697.9	2345.5	µg/L	2345.5	ppb	13:42:02
2	Sc 361.383	516899.5	516899.5	91.185	%			13:43:19
2	Y 371.029	458284.8	458284.8	87.999	%			13:43:19
2	Ag 328.068†	-431.4	-226.3	0.5922	µg/L	0.5922	ppb	13:43:19
2	As 188.979†	-5.9	5.9	5.0497	µg/L	5.0497	ppb	13:43:39
2	B 249.677†	22558.1	24512.9	816.06	µg/L	816.06	ppb	13:43:19
2	Ba 233.527†	47914.3	52600.4	558.15	µg/L	558.15	ppb	13:43:19
2	Be 313.107†	-8044.9	-3314.3	-0.1121	µg/L	-0.1121	ppb	13:43:19
2	Cd 226.502†	-134.0	11.4	0.0110	µg/L	0.0110	ppb	13:43:39
2	Co 228.616†	-72.7	35.6	1.4305	µg/L	1.4305	ppb	13:43:39
2	Cr 267.716†	-8.5	-90.3	0.4917	µg/L	0.4917	ppb	13:43:39
2	Cu 324.752†	2187.2	43.9	0.3192	µg/L	0.3192	ppb	13:43:19
2	Mn 257.610†	46930.6	51072.2	81.057	µg/L	81.057	ppb	13:43:19
2	Mo 202.031†	14.0	4.1	0.5603	µg/L	0.5603	ppb	13:43:39
2	Ni 231.604†	201.4	334.1	12.586	µg/L	12.586	ppb	13:43:39
2	P 214.914†	142.3	101.8	94.750	µg/L	94.750	ppb	13:43:39
2	Pb 220.353†	74.8	-88.8	-7.0023	µg/L	-7.0023	ppb	13:43:39

2	S 181.975 Axial†	1322.8	1398.4	3825.2	µg/L	3825.2	ppb	13:43:39
2	Sb 206.836†	71.7	14.9	7.6500	µg/L	7.6500	ppb	13:43:39
2	Se 196.026†	-42.7	3.5	12.652	µg/L	12.652	ppb	13:43:39
2	SiO2†	266441.3	291009.1	36988	µg/L	36988	ppb	13:43:19
2	Si 251.611†	276324.5	302740.2	17150	µg/L	17150	ppb	13:43:19
2	Sn 189.927†	-228.0	-273.1	-38.938	µg/L	-38.938	ppb	13:43:39
2	Ti 334.940†	-2426.0	-2174.6	-0.5593	µg/L	-0.5593	ppb	13:43:19
2	Tl 190.801†	-43.3	-21.3	-10.625	µg/L	-10.625	ppb	13:43:39
2	U 367.007†	531.1	44.7	-23.37	µg/L	-23.37	ppb	13:43:19
2	V 292.402†	384.9	346.2	3.5296	µg/L	3.5296	ppb	13:43:19
2	Zn 213.857†	1142.0	541.2	5.0675	µg/L	5.0675	ppb	13:43:39
3	Sc RADIAL	6006.2	6006.2	93.3	%			13:42:47
3	Al 396.153Radial†	-162.5	1.3	0.7984	µg/L	0.7984	ppb	13:42:47
3	Ca 317.933Radial†	155039.3	166039.3	159800	µg/L	159800	ppb	13:42:27
3	Fe 238.204 Radial†	1604.5	1678.8	1804.5	µg/L	1804.5	ppb	13:42:47
3	K 766.490 Radial†	17410.9	17989.9	15567	µg/L	15567	ppb	13:42:27
3	Mg 279.077 IEC†	11290.8	12087.0	94894	µg/L	94894	ppb	13:42:47
3	Na 589.592 Radial†	20742.7	22403.7	132380	µg/L	132380	ppb	13:42:27
3	Sr 421.552†	149191.4	160707.8	2360.4	µg/L	2360.4	ppb	13:42:27
3	Sc 361.383	522767.7	522767.7	92.220	%			13:43:44
3	Y 371.029	463092.1	463092.1	88.922	%			13:43:44
3	Ag 328.068†	-442.8	-233.3	0.5550	µg/L	0.5550	ppb	13:43:44
3	As 188.979†	-0.4	11.9	10.061	µg/L	10.061	ppb	13:44:04
3	B 249.677†	22735.1	24427.1	813.08	µg/L	813.08	ppb	13:43:44
3	Ba 233.527†	48346.3	52479.0	556.87	µg/L	556.87	ppb	13:43:44
3	Be 313.107†	-8073.9	-3246.7	-0.0605	µg/L	-0.0605	ppb	13:43:44
3	Cd 226.502†	-141.6	4.9	-0.0947	µg/L	-0.0947	ppb	13:44:04
3	Co 228.616†	-62.4	47.7	1.7901	µg/L	1.7901	ppb	13:44:04
3	Cr 267.716†	23.2	-55.9	1.2283	µg/L	1.2283	ppb	13:44:04
3	Cu 324.752†	2283.1	120.9	0.7390	µg/L	0.7390	ppb	13:43:44
3	Mn 257.610†	47326.1	50923.3	80.798	µg/L	80.798	ppb	13:43:44
3	Mo 202.031†	12.2	1.9	0.2974	µg/L	0.2974	ppb	13:44:04
3	Ni 231.604†	174.7	302.7	11.408	µg/L	11.408	ppb	13:44:04
3	P 214.914†	149.2	107.5	100.12	µg/L	100.12	ppb	13:44:04
3	Pb 220.353†	66.5	-98.7	-8.8848	µg/L	-8.8848	ppb	13:44:04
3	S 181.975 Axial†	1321.9	1381.2	3778.0	µg/L	3778.0	ppb	13:44:04
3	Sb 206.836†	71.0	13.2	6.7474	µg/L	6.7474	ppb	13:44:04
3	Se 196.026†	-56.0	-10.5	-13.742	µg/L	-13.742	ppb	13:44:04
3	SiO2†	268804.1	290291.2	36891	µg/L	36891	ppb	13:43:44
3	Si 251.611†	279071.7	302317.5	17123	µg/L	17123	ppb	13:43:44
3	Sn 189.927†	-214.5	-255.7	-33.316	µg/L	-33.316	ppb	13:44:04
3	Ti 334.940†	-2409.5	-2126.8	-0.4038	µg/L	-0.4038	ppb	13:43:44
3	Tl 190.801†	-29.3	-5.5	-2.7198	µg/L	-2.7198	ppb	13:44:04
3	U 367.007†	600.3	113.3	-0.772	µg/L	-0.772	ppb	13:43:44
3	V 292.402†	381.6	337.9	3.4633	µg/L	3.4633	ppb	13:43:44
3	Zn 213.857†	1142.3	527.4	4.8774	µg/L	4.8774	ppb	13:44:04

Mean Data: 1202969096|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	518754.7	91.512	%	0.6137				0.67%
Sc RADIAL	6025.9	93.7	%	0.27				0.29%
Y 371.029	459643.1	88.260	%	0.5778				0.65%
Ag 328.068†	-208.8	0.7126	µg/L	0.24139	0.7126	ppb	0.24139	33.88%
Al 396.153Radial†	11.5	11.505	µg/L	11.4809	11.505	ppb	11.4809	99.79%
As 188.979†	7.6	6.4462	µg/L	3.15710	6.4462	ppb	3.15710	48.98%
B 249.677†	24495.4	815.46	µg/L	2.142	815.46	ppb	2.142	0.26%
Ba 233.527†	52569.9	557.83	µg/L	0.850	557.83	ppb	0.850	0.15%
Be 313.107†	-3367.4	-0.1349	µg/L	0.08805	-0.1349	ppb	0.08805	65.26%
Ca 317.933Radial†	165172.8	158960	µg/L	762.7	158960	ppb	762.7	0.48%
Cd 226.502†	8.4	-0.0373	µg/L	0.05346	-0.0373	ppb	0.05346	143.15%
Co 228.616†	44.2	1.6855	µg/L	0.22200	1.6855	ppb	0.22200	13.17%
Cr 267.716†	-65.6	1.0135	µg/L	0.45417	1.0135	ppb	0.45417	44.81%
Cu 324.752†	57.3	0.4011	µg/L	0.30527	0.4011	ppb	0.30527	76.11%
Fe 238.204 Radial†	1672.0	1797.2	µg/L	8.98	1797.2	ppb	8.98	0.50%
K 766.490 Radial†	17790.4	15394	µg/L	161.8	15394	ppb	161.8	1.05%
Mg 279.077 IEC†	12043.0	94549	µg/L	320.9	94549	ppb	320.9	0.34%
Mn 257.610†	51063.6	81.041	µg/L	0.2354	81.041	ppb	0.2354	0.29%
Mo 202.031†	-1.4	-0.0931	µg/L	0.91359	-0.0931	ppb	0.91359	981.07%
Na 589.592 Radial†	22207.3	131220	µg/L	1865.0	131220	ppb	1865.0	1.42%

Ni 231.604†	317.9	11.978	µg/L	0.5901	11.978	ppb	0.5901	4.93%
P 214.914†	106.2	98.963	µg/L	3.7694	98.963	ppb	3.7694	3.81%
Pb 220.353†	-88.4	-6.9124	µg/L	2.01884	-6.9124	ppb	2.01884	29.21%
S 181.975 Axial†	1394.7	3814.9	µg/L	32.97	3814.9	ppb	32.97	0.86%
Sb 206.836†	12.5	6.3740	µg/L	1.49812	6.3740	ppb	1.49812	23.50%
Se 196.026†	-0.2	5.6856	µg/L	17.04733	5.6856	ppb	17.04733	299.83%
SiO2†	290991.4	36985	µg/L	92.4	36985	ppb	92.4	0.25%
Si 251.611†	302758.9	17150	µg/L	27.5	17150	ppb	27.5	0.16%
Sn 189.927†	-261.6	-35.367	µg/L	3.1039	-35.367	ppb	3.1039	8.78%
Sr 421.552†	159863.2	2348.0	µg/L	11.39	2348.0	ppb	11.39	0.48%
Ti 334.940†	-2146.0	-0.4834	µg/L	0.07780	-0.4834	ppb	0.07780	16.09%
Tl 190.801†	-15.4	-7.6586	µg/L	4.30585	-7.6586	ppb	4.30585	56.22%
U 367.007†	97.6	-5.819	µg/L	15.6526	-5.819	ppb	15.6526	268.97%
V 292.402†	338.8	3.4624	µg/L	0.06771	3.4624	ppb	0.06771	1.96%
Zn 213.857†	534.4	4.9788	µg/L	0.09567	4.9788	ppb	0.09567	1.92%

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Sequence No.: 5 **Autosampler Location: 305**
Sample ID: 1202969097|1339675|1 **Date Collected: 11/5/2013 13:44:12**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969097|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5980.3	5980.3	92.9	%			13:44:45
1	Al 396.153Radial†	4390.0	4898.5	5076.3	µg/L	5076.3	ppb	13:44:45
1	Ca 317.933Radial†	157447.2	169348.7	162980	µg/L	162980	ppb	13:44:40
1	Fe 238.204 Radial†	6081.5	6503.0	6994.5	µg/L	6994.5	ppb	13:44:45
1	K 766.490 Radial†	22924.7	24002.8	20785	µg/L	20785	ppb	13:44:45
1	Mg 279.077 IEC†	11836.9	12726.8	99917	µg/L	99917	ppb	13:44:45
1	Na 589.592 Radial†	22013.3	23866.9	141030	µg/L	141030	ppb	13:44:45
1	Sr 421.552†	180165.5	194724.0	2860.1	µg/L	2860.1	ppb	13:44:40
1	Sc 361.383	523018.6	523018.6	92.264	%			13:45:12
1	Y 371.029	463794.3	463794.3	89.057	%			13:45:12
1	Ag 328.068†	69605.4	75688.0	526.53	µg/L	526.53	ppb	13:45:18
1	As 188.979†	575.2	635.8	529.01	µg/L	529.01	ppb	13:45:38
1	B 249.677†	36895.9	39763.4	1324.7	µg/L	1324.7	ppb	13:45:18
1	Ba 233.527†	91118.6	98812.2	1049.1	µg/L	1049.1	ppb	13:45:18
1	Be 313.107†	882206.3	961679.3	516.51	µg/L	516.51	ppb	13:45:12
1	Cd 226.502†	27682.1	30161.5	487.29	µg/L	487.29	ppb	13:45:18
1	Co 228.616†	14788.9	16144.2	482.66	µg/L	482.66	ppb	13:45:18
1	Cr 267.716†	19844.2	21426.9	462.44	µg/L	462.44	ppb	13:45:18
1	Cu 324.752†	89553.2	94706.6	499.18	µg/L	499.18	ppb	13:45:18
1	Mn 257.610†	296024.3	320447.9	525.75	µg/L	525.75	ppb	13:45:18
1	Mo 202.031†	3663.5	3959.4	468.81	µg/L	468.81	ppb	13:45:38
1	Ni 231.604†	10561.0	11559.7	433.54	µg/L	433.54	ppb	13:45:38
1	P 214.914†	644.6	644.2	593.71	µg/L	593.71	ppb	13:45:38
1	Pb 220.353†	2367.6	2395.3	483.08	µg/L	483.08	ppb	13:45:38
1	S 181.975 Axial†	2825.2	3009.8	8246.9	µg/L	8246.9	ppb	13:45:38
1	Sb 206.836†	884.3	894.7	469.40	µg/L	469.40	ppb	13:45:38
1	Se 196.026†	150.5	213.5	422.45	µg/L	422.45	ppb	13:45:38
1	SiO2†	332920.0	359642.8	45705	µg/L	45705	ppb	13:45:18
1	Si 251.611†	346036.5	374751.6	21207	µg/L	21207	ppb	13:45:18
1	Sn 189.927†	1144.5	1217.4	420.03	µg/L	420.03	ppb	13:45:38
1	Ti 334.940†	161087.6	175079.3	484.22	µg/L	484.22	ppb	13:45:18
1	Tl 190.801†	776.9	868.3	437.05	µg/L	437.05	ppb	13:45:38
1	U 367.007†	1949.3	1575.0	459.6	µg/L	459.6	ppb	13:45:18
1	V 292.402†	44070.8	47689.8	489.66	µg/L	489.66	ppb	13:45:18
1	Zn 213.857†	31654.4	33597.1	450.94	µg/L	450.94	ppb	13:45:18
2	Sc RADIAL	5951.8	5951.8	92.5	%			13:44:56
2	Al 396.153Radial†	4397.4	4929.1	5108.5	µg/L	5108.5	ppb	13:44:56
2	Ca 317.933Radial†	157170.2	169861.7	163470	µg/L	163470	ppb	13:44:51
2	Fe 238.204 Radial†	6037.5	6486.8	6977.1	µg/L	6977.1	ppb	13:44:56
2	K 766.490 Radial†	23039.5	24245.2	20995	µg/L	20995	ppb	13:44:56
2	Mg 279.077 IEC†	11795.6	12743.3	100050	µg/L	100050	ppb	13:44:56
2	Na 589.592 Radial†	21909.2	23868.0	141040	µg/L	141040	ppb	13:44:56
2	Sr 421.552†	180472.8	195986.0	2878.7	µg/L	2878.7	ppb	13:44:51
2	Sc 361.383	522460.9	522460.9	92.166	%			13:45:43
2	Y 371.029	462757.7	462757.7	88.858	%			13:45:43
2	Ag 328.068†	69245.9	75378.5	524.40	µg/L	524.40	ppb	13:45:48
2	As 188.979†	562.5	622.7	518.12	µg/L	518.12	ppb	13:46:09
2	B 249.677†	36888.8	39798.3	1325.8	µg/L	1325.8	ppb	13:45:48
2	Ba 233.527†	90974.2	98761.0	1048.5	µg/L	1048.5	ppb	13:45:48
2	Be 313.107†	882199.2	962692.4	517.06	µg/L	517.06	ppb	13:45:43
2	Cd 226.502†	27471.8	29965.3	484.12	µg/L	484.12	ppb	13:45:48
2	Co 228.616†	14747.1	16115.9	481.82	µg/L	481.82	ppb	13:45:48
2	Cr 267.716†	19721.5	21316.8	460.07	µg/L	460.07	ppb	13:45:48
2	Cu 324.752†	89171.9	94396.5	497.55	µg/L	497.55	ppb	13:45:48
2	Mn 257.610†	295186.2	319881.0	524.80	µg/L	524.80	ppb	13:45:48
2	Mo 202.031†	3662.2	3962.1	469.13	µg/L	469.13	ppb	13:46:09
2	Ni 231.604†	10584.6	11597.6	434.96	µg/L	434.96	ppb	13:46:09
2	P 214.914†	657.4	658.9	607.62	µg/L	607.62	ppb	13:46:09
2	Pb 220.353†	2359.6	2389.4	481.94	µg/L	481.94	ppb	13:46:09

2	S 181.975 Axial†	2844.5	3034.0	8313.2	µg/L	8313.2	ppb	13:46:09
2	Sb 206.836†	873.7	884.2	463.95	µg/L	463.95	ppb	13:46:09
2	Se 196.026†	155.6	219.1	433.25	µg/L	433.25	ppb	13:46:09
2	SiO2†	331709.8	358714.9	45581	µg/L	45581	ppb	13:45:48
2	Si 251.611†	344796.6	373806.6	21150	µg/L	21150	ppb	13:45:48
2	Sn 189.927†	1159.8	1235.3	425.68	µg/L	425.68	ppb	13:46:09
2	Ti 334.940†	160568.0	174701.9	483.20	µg/L	483.20	ppb	13:45:48
2	Tl 190.801†	781.7	874.3	440.07	µg/L	440.07	ppb	13:46:09
2	U 367.007†	1966.4	1595.8	466.5	µg/L	466.5	ppb	13:45:48
2	V 292.402†	43887.4	47541.8	488.16	µg/L	488.16	ppb	13:45:48
2	Zn 213.857†	31540.5	33510.1	449.74	µg/L	449.74	ppb	13:45:48
3	Sc RADIAL	5979.3	5979.3	92.9	%			13:45:06
3	Al 396.153Radial†	4381.4	4890.0	5067.3	µg/L	5067.3	ppb	13:45:06
3	Ca 317.933Radial†	159092.3	171148.6	164710	µg/L	164710	ppb	13:45:01
3	Fe 238.204 Radial†	6061.6	6482.8	6972.8	µg/L	6972.8	ppb	13:45:06
3	K 766.490 Radial†	23054.3	24146.6	20910	µg/L	20910	ppb	13:45:06
3	Mg 279.077 IEC†	11812.6	12702.9	99730	µg/L	99730	ppb	13:45:06
3	Na 589.592 Radial†	21734.0	23570.5	139280	µg/L	139280	ppb	13:45:06
3	Sr 421.552†	182061.5	196798.3	2890.6	µg/L	2890.6	ppb	13:45:01
3	Sc 361.383	521720.8	521720.8	92.036	%			13:46:14
3	Y 371.029	461720.0	461720.0	88.659	%			13:46:14
3	Ag 328.068†	69584.7	75853.2	527.68	µg/L	527.68	ppb	13:46:19
3	As 188.979†	564.6	625.8	520.66	µg/L	520.66	ppb	13:46:39
3	B 249.677†	36864.2	39828.3	1326.8	µg/L	1326.8	ppb	13:46:19
3	Ba 233.527†	91223.0	99171.3	1052.9	µg/L	1052.9	ppb	13:46:19
3	Be 313.107†	877383.1	958817.3	514.99	µg/L	514.99	ppb	13:46:14
3	Cd 226.502†	27628.8	30178.1	487.56	µg/L	487.56	ppb	13:46:19
3	Co 228.616†	14802.0	16198.3	484.29	µg/L	484.29	ppb	13:46:19
3	Cr 267.716†	19723.6	21349.4	460.78	µg/L	460.78	ppb	13:46:19
3	Cu 324.752†	89262.8	94632.5	498.77	µg/L	498.77	ppb	13:46:19
3	Mn 257.610†	296049.6	321273.4	527.11	µg/L	527.11	ppb	13:46:19
3	Mo 202.031†	3683.0	3990.4	472.47	µg/L	472.47	ppb	13:46:39
3	Ni 231.604†	10594.7	11624.8	435.98	µg/L	435.98	ppb	13:46:39
3	P 214.914†	680.6	685.1	632.36	µg/L	632.36	ppb	13:46:39
3	Pb 220.353†	2354.5	2387.5	481.69	µg/L	481.69	ppb	13:46:39
3	S 181.975 Axial†	2832.1	3024.9	8288.3	µg/L	8288.3	ppb	13:46:39
3	Sb 206.836†	862.8	873.7	458.40	µg/L	458.40	ppb	13:46:39
3	Se 196.026†	156.9	220.8	436.20	µg/L	436.20	ppb	13:46:39
3	SiO2†	332749.6	360355.2	45793	µg/L	45793	ppb	13:46:19
3	Si 251.611†	346047.0	375695.8	21259	µg/L	21259	ppb	13:46:19
3	Sn 189.927†	1134.3	1209.3	418.12	µg/L	418.12	ppb	13:46:39
3	Ti 334.940†	160873.5	175281.0	484.85	µg/L	484.85	ppb	13:46:19
3	Tl 190.801†	772.8	865.8	435.80	µg/L	435.80	ppb	13:46:39
3	U 367.007†	1882.9	1508.1	437.1	µg/L	437.1	ppb	13:46:19
3	V 292.402†	43996.0	47727.4	490.06	µg/L	490.06	ppb	13:46:19
3	Zn 213.857†	31656.7	33685.0	452.10	µg/L	452.10	ppb	13:46:19

Mean Data: 1202969097|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	522400.1	92.155	%	0.1148				0.12%
Sc RADIAL	5970.5	92.8	%	0.25				0.27%
Y 371.029	462757.3	88.858	%	0.1991				0.22%
Ag 328.068†	75639.9	526.20	µg/L	1.667	526.20	ppb	1.667	0.32%
Al 396.153Radial†	4905.9	5084.0	µg/L	21.63	5084.0	ppb	21.63	0.43%
As 188.979†	628.1	522.60	µg/L	5.699	522.60	ppb	5.699	1.09%
B 249.677†	39796.7	1325.8	µg/L	1.06	1325.8	ppb	1.06	0.08%
Ba 233.527†	98914.8	1050.2	µg/L	2.37	1050.2	ppb	2.37	0.23%
Be 313.107†	961063.0	516.19	µg/L	1.071	516.19	ppb	1.071	0.21%
Ca 317.933Radial†	170119.6	163720	µg/L	892.6	163720	ppb	892.6	0.55%
Cd 226.502†	30101.6	486.33	µg/L	1.914	486.33	ppb	1.914	0.39%
Co 228.616†	16152.8	482.93	µg/L	1.255	482.93	ppb	1.255	0.26%
Cr 267.716†	21364.4	461.10	µg/L	1.215	461.10	ppb	1.215	0.26%
Cu 324.752†	94578.5	498.50	µg/L	0.849	498.50	ppb	0.849	0.17%
Fe 238.204 Radial†	6490.9	6981.5	µg/L	11.53	6981.5	ppb	11.53	0.17%
K 766.490 Radial†	24131.5	20897	µg/L	106.0	20897	ppb	106.0	0.51%
Mg 279.077 IEC†	12724.4	99898	µg/L	159.6	99898	ppb	159.6	0.16%
Mn 257.610†	320534.1	525.89	µg/L	1.161	525.89	ppb	1.161	0.22%
Mo 202.031†	3970.6	470.14	µg/L	2.029	470.14	ppb	2.029	0.43%
Na 589.592 Radial†	23768.5	140450	µg/L	1012.9	140450	ppb	1012.9	0.72%

Ni 231.604†	11594.0	434.83 µg/L	1.226	434.83 ppb	1.226	0.28%
P 214.914†	662.8	611.23 µg/L	19.575	611.23 ppb	19.575	3.20%
Pb 220.353†	2390.7	482.24 µg/L	0.743	482.24 ppb	0.743	0.15%
S 181.975 Axial†	3022.9	8282.8 µg/L	33.45	8282.8 ppb	33.45	0.40%
Sb 206.836†	884.2	463.91 µg/L	5.502	463.91 ppb	5.502	1.19%
Se 196.026†	217.8	430.64 µg/L	7.239	430.64 ppb	7.239	1.68%
SiO2†	359571.0	45693 µg/L	106.6	45693 ppb	106.6	0.23%
Si 251.611†	374751.3	21205 µg/L	54.5	21205 ppb	54.5	0.26%
Sn 189.927†	1220.7	421.28 µg/L	3.929	421.28 ppb	3.929	0.93%
Sr 421.552†	195836.1	2876.5 µg/L	15.35	2876.5 ppb	15.35	0.53%
Ti 334.940†	175020.7	484.09 µg/L	0.832	484.09 ppb	0.832	0.17%
Tl 190.801†	869.5	437.64 µg/L	2.195	437.64 ppb	2.195	0.50%
U 367.007†	1559.7	454.4 µg/L	15.36	454.4 ppb	15.36	3.38%
V 292.402†	47653.0	489.29 µg/L	0.999	489.29 ppb	0.999	0.20%
Zn 213.857†	33597.4	450.93 µg/L	1.181	450.93 ppb	1.181	0.26%

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Sequence No.: 6 **Autosampler Location: 306**
Sample ID: 1202969098|1339675|5 **Date Collected: 11/5/2013 13:46:47**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969098|1339675|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6145.3	6145.3	95.5	%			13:47:15
1	Al 396.153Radial†	-65.5	106.8	111.52	µg/L	111.52	ppb	13:47:15
1	Ca 317.933Radial†	31631.5	33071.3	31828	µg/L	31828	ppb	13:47:15
1	Fe 238.204 Radial†	346.4	322.7	346.81	µg/L	346.81	ppb	13:47:35
1	K 766.490 Radial†	4203.6	3739.5	3236.4	µg/L	3236.4	ppb	13:47:15
1	Mg 279.077 IEC†	2332.0	2433.3	19103	µg/L	19103	ppb	13:47:35
1	Na 589.592 Radial†	4115.1	4491.6	26541	µg/L	26541	ppb	13:47:15
1	Sr 421.552†	29698.9	31981.0	469.71	µg/L	469.71	ppb	13:47:15
1	Sc 361.383	536880.4	536880.4	94.710	%			13:48:32
1	Y 371.029	479739.1	479739.1	92.118	%			13:48:32
1	Ag 328.068†	-277.8	-46.5	0.1080	µg/L	0.1080	ppb	13:48:32
1	As 188.979†	-15.1	-3.6	-2.9210	µg/L	-2.9210	ppb	13:48:52
1	B 249.677†	4761.4	4801.4	159.74	µg/L	159.74	ppb	13:48:32
1	Ba 233.527†	9681.3	10276.3	109.04	µg/L	109.04	ppb	13:48:52
1	Be 313.107†	-5750.7	-563.6	0.0320	µg/L	0.0320	ppb	13:48:32
1	Cd 226.502†	-142.7	7.8	0.0932	µg/L	0.0932	ppb	13:48:52
1	Co 228.616†	-94.5	15.6	0.5358	µg/L	0.5358	ppb	13:48:52
1	Cr 267.716†	110.6	35.8	1.2591	µg/L	1.2591	ppb	13:48:52
1	Cu 324.752†	2408.7	188.5	1.0113	µg/L	1.0113	ppb	13:48:32
1	Mn 257.610†	10252.8	10430.2	16.559	µg/L	16.559	ppb	13:48:32
1	Mo 202.031†	5.6	-5.4	-0.6198	µg/L	-0.6198	ppb	13:48:52
1	Ni 231.604†	14.6	128.7	4.8373	µg/L	4.8373	ppb	13:48:52
1	P 214.914†	82.9	33.2	31.086	µg/L	31.086	ppb	13:48:52
1	Pb 220.353†	130.9	-32.6	-4.3831	µg/L	-4.3831	ppb	13:48:52
1	S 181.975 Axial†	297.6	262.0	716.45	µg/L	716.45	ppb	13:48:52
1	Sb 206.836†	74.3	14.8	7.6714	µg/L	7.6714	ppb	13:48:52
1	Se 196.026†	-47.4	0.2	1.6344	µg/L	1.6344	ppb	13:48:52
1	SiO2†	55945.7	57881.2	7352.7	µg/L	7352.7	ppb	13:48:32
1	Si 251.611†	57072.7	59963.7	3394.8	µg/L	3394.8	ppb	13:48:32
1	Sn 189.927†	-79.2	-106.7	-23.755	µg/L	-23.755	ppb	13:48:52
1	Ti 334.940†	-895.8	-459.9	-0.1802	µg/L	-0.1802	ppb	13:48:32
1	Tl 190.801†	-32.0	-7.6	-3.7963	µg/L	-3.7963	ppb	13:48:52
1	U 367.007†	521.9	13.3	-3.155	µg/L	-3.155	ppb	13:48:32
1	V 292.402†	147.6	79.9	0.8103	µg/L	0.8103	ppb	13:48:32
1	Zn 213.857†	826.9	161.9	1.7262	µg/L	1.7262	ppb	13:48:52
2	Sc RADIAL	6136.8	6136.8	95.4	%			13:47:40
2	Al 396.153Radial†	-98.3	72.2	75.428	µg/L	75.428	ppb	13:47:40
2	Ca 317.933Radial†	31717.4	33207.2	31959	µg/L	31959	ppb	13:47:40
2	Fe 238.204 Radial†	348.7	325.6	349.96	µg/L	349.96	ppb	13:48:00
2	K 766.490 Radial†	4224.7	3767.7	3260.7	µg/L	3260.7	ppb	13:47:40
2	Mg 279.077 IEC†	2346.1	2451.5	19246	µg/L	19246	ppb	13:48:00
2	Na 589.592 Radial†	4198.8	4585.3	27094	µg/L	27094	ppb	13:47:40
2	Sr 421.552†	29688.8	32013.3	470.19	µg/L	470.19	ppb	13:47:40
2	Sc 361.383	540330.0	540330.0	95.318	%			13:48:58
2	Y 371.029	482940.9	482940.9	92.733	%			13:48:58
2	Ag 328.068†	-293.6	-61.1	0.0089	µg/L	0.0089	ppb	13:48:58
2	As 188.979†	-12.7	-0.9	-0.7407	µg/L	-0.7407	ppb	13:49:18
2	B 249.677†	4757.1	4764.8	158.50	µg/L	158.50	ppb	13:48:58
2	Ba 233.527†	9758.4	10291.9	109.21	µg/L	109.21	ppb	13:49:18
2	Be 313.107†	-5841.1	-619.7	0.0030	µg/L	0.0030	ppb	13:48:58
2	Cd 226.502†	-139.8	11.8	0.1577	µg/L	0.1577	ppb	13:49:18
2	Co 228.616†	-101.7	8.7	0.3310	µg/L	0.3310	ppb	13:49:18
2	Cr 267.716†	95.2	18.9	0.9002	µg/L	0.9002	ppb	13:49:18
2	Cu 324.752†	2344.9	105.2	0.5719	µg/L	0.5719	ppb	13:48:58
2	Mn 257.610†	10343.5	10456.2	16.597	µg/L	16.597	ppb	13:48:58
2	Mo 202.031†	10.4	-0.3	-0.0263	µg/L	-0.0263	ppb	13:49:18
2	Ni 231.604†	-4.7	108.3	4.0735	µg/L	4.0735	ppb	13:49:18
2	P 214.914†	89.7	39.7	37.291	µg/L	37.291	ppb	13:49:18
2	Pb 220.353†	139.8	-24.2	-2.6924	µg/L	-2.6924	ppb	13:49:18

2	S 181.975 Axial†	304.2	266.9	729.86	µg/L	729.86	ppb	13:49:18
2	Sb 206.836†	72.8	12.7	6.5733	µg/L	6.5733	ppb	13:49:18
2	Se 196.026†	-53.3	-5.6	-9.3570	µg/L	-9.3570	ppb	13:49:18
2	SiO2†	56206.7	57778.0	7338.9	µg/L	7338.9	ppb	13:48:58
2	Si 251.611†	57316.0	59834.2	3387.1	µg/L	3387.1	ppb	13:48:58
2	Sn 189.927†	-89.8	-117.3	-26.961	µg/L	-26.961	ppb	13:49:18
2	Ti 334.940†	-865.5	-422.1	-0.0723	µg/L	-0.0723	ppb	13:48:58
2	Tl 190.801†	-37.5	-13.1	-6.5583	µg/L	-6.5583	ppb	13:49:18
2	U 367.007†	522.4	10.3	-4.197	µg/L	-4.197	ppb	13:48:58
2	V 292.402†	139.6	70.6	0.7205	µg/L	0.7205	ppb	13:48:58
2	Zn 213.857†	833.0	162.7	1.7398	µg/L	1.7398	ppb	13:49:18
3	Sc RADIAL	6078.7	6078.7	94.5	%			13:48:05
3	Al 396.153Radial†	-105.7	63.4	66.195	µg/L	66.195	ppb	13:48:05
3	Ca 317.933Radial†	31460.7	33253.6	32003	µg/L	32003	ppb	13:48:05
3	Fe 238.204 Radial†	347.8	328.1	352.65	µg/L	352.65	ppb	13:48:26
3	K 766.490 Radial†	4201.3	3785.3	3276.0	µg/L	3276.0	ppb	13:48:05
3	Mg 279.077 IEC†	2348.8	2477.8	19453	µg/L	19453	ppb	13:48:26
3	Na 589.592 Radial†	4146.9	4572.5	27019	µg/L	27019	ppb	13:48:05
3	Sr 421.552†	29610.4	32228.2	473.35	µg/L	473.35	ppb	13:48:05
3	Sc 361.383	535305.9	535305.9	94.432	%			13:49:23
3	Y 371.029	477439.1	477439.1	91.677	%			13:49:23
3	Ag 328.068†	-331.9	-104.7	-0.2845	µg/L	-0.2845	ppb	13:49:23
3	As 188.979†	-13.0	-1.4	-1.1212	µg/L	-1.1212	ppb	13:49:43
3	B 249.677†	4743.8	4797.6	159.59	µg/L	159.59	ppb	13:49:23
3	Ba 233.527†	9717.1	10344.3	109.77	µg/L	109.77	ppb	13:49:43
3	Be 313.107†	-5886.4	-725.1	-0.0497	µg/L	-0.0497	ppb	13:49:23
3	Cd 226.502†	-155.7	-6.5	-0.1384	µg/L	-0.1384	ppb	13:49:43
3	Co 228.616†	-105.1	4.0	0.1931	µg/L	0.1931	ppb	13:49:43
3	Cr 267.716†	125.0	51.4	1.5960	µg/L	1.5960	ppb	13:49:43
3	Cu 324.752†	2281.9	61.6	0.3511	µg/L	0.3511	ppb	13:49:23
3	Mn 257.610†	10291.7	10503.2	16.668	µg/L	16.668	ppb	13:49:23
3	Mo 202.031†	12.6	2.1	0.2614	µg/L	0.2614	ppb	13:49:43
3	Ni 231.604†	-2.2	111.0	4.1735	µg/L	4.1735	ppb	13:49:43
3	P 214.914†	75.4	25.5	23.797	µg/L	23.797	ppb	13:49:43
3	Pb 220.353†	153.4	-8.3	0.4397	µg/L	0.4397	ppb	13:49:43
3	S 181.975 Axial†	305.6	271.3	742.12	µg/L	742.12	ppb	13:49:43
3	Sb 206.836†	56.2	-4.3	-2.3732	µg/L	-2.3732	ppb	13:49:43
3	Se 196.026†	-38.2	9.9	20.078	µg/L	20.078	ppb	13:49:43
3	SiO2†	56009.3	58122.3	7382.9	µg/L	7382.9	ppb	13:49:23
3	Si 251.611†	57028.3	60093.9	3401.8	µg/L	3401.8	ppb	13:49:23
3	Sn 189.927†	-76.1	-103.7	-22.795	µg/L	-22.795	ppb	13:49:43
3	Ti 334.940†	-927.8	-496.6	-0.2835	µg/L	-0.2835	ppb	13:49:23
3	Tl 190.801†	-32.5	-8.2	-4.0923	µg/L	-4.0923	ppb	13:49:43
3	U 367.007†	559.4	54.7	10.54	µg/L	10.54	ppb	13:49:23
3	V 292.402†	201.8	137.8	1.4183	µg/L	1.4183	ppb	13:49:23
3	Zn 213.857†	818.2	155.3	1.6360	µg/L	1.6360	ppb	13:49:43

Mean Data: 1202969098|1339675|5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	537505.4	94.820	%	0.4533				0.48%
Sc RADIAL	6120.3	95.1	%	0.56				0.59%
Y 371.029	480039.7	92.176	%	0.5306				0.58%
Ag 328.068†	-70.7	-0.0558	µg/L	0.20411	-0.0558	ppb	0.20411	365.60%
Al 396.153Radial†	80.8	84.382	µg/L	23.9534	84.382	ppb	23.9534	28.39%
As 188.979†	-2.0	-1.5943	µg/L	1.16461	-1.5943	ppb	1.16461	73.05%
B 249.677†	4788.0	159.28	µg/L	0.679	159.28	ppb	0.679	0.43%
Ba 233.527†	10304.1	109.34	µg/L	0.378	109.34	ppb	0.378	0.35%
Be 313.107†	-636.1	-0.0049	µg/L	0.04143	-0.0049	ppb	0.04143	845.16%
Ca 317.933Radial†	33177.4	31930	µg/L	91.1	31930	ppb	91.1	0.29%
Cd 226.502†	4.4	0.0375	µg/L	0.15572	0.0375	ppb	0.15572	415.38%
Co 228.616†	9.4	0.3533	µg/L	0.17247	0.3533	ppb	0.17247	48.82%
Cr 267.716†	35.4	1.2518	µg/L	0.34796	1.2518	ppb	0.34796	27.80%
Cu 324.752†	118.4	0.6447	µg/L	0.33608	0.6447	ppb	0.33608	52.13%
Fe 238.204 Radial†	325.4	349.81	µg/L	2.922	349.81	ppb	2.922	0.84%
K 766.490 Radial†	3764.2	3257.7	µg/L	19.96	3257.7	ppb	19.96	0.61%
Mg 279.077 IEC†	2454.2	19268	µg/L	175.8	19268	ppb	175.8	0.91%
Mn 257.610†	10463.2	16.608	µg/L	0.0551	16.608	ppb	0.0551	0.33%
Mo 202.031†	-1.2	-0.1282	µg/L	0.44938	-0.1282	ppb	0.44938	350.44%
Na 589.592 Radial†	4549.8	26885	µg/L	300.1	26885	ppb	300.1	1.12%

Ni 231.604†	116.0	4.3615	µg/L	0.41512	4.3615	ppb	0.41512	9.52%
P 214.914†	32.8	30.725	µg/L	6.7543	30.725	ppb	6.7543	21.98%
Pb 220.353†	-21.7	-2.2119	µg/L	2.44701	-2.2119	ppb	2.44701	110.63%
S 181.975 Axial†	266.7	729.48	µg/L	12.838	729.48	ppb	12.838	1.76%
Sb 206.836†	7.7	3.9572	µg/L	5.50967	3.9572	ppb	5.50967	139.23%
Se 196.026†	1.5	4.1186	µg/L	14.87410	4.1186	ppb	14.87410	361.14%
SiO2†	57927.2	7358.2	µg/L	22.51	7358.2	ppb	22.51	0.31%
Si 251.611†	59963.9	3394.5	µg/L	7.34	3394.5	ppb	7.34	0.22%
Sn 189.927†	-109.3	-24.504	µg/L	2.1817	-24.504	ppb	2.1817	8.90%
Sr 421.552†	32074.2	471.08	µg/L	1.974	471.08	ppb	1.974	0.42%
Ti 334.940†	-459.5	-0.1787	µg/L	0.10560	-0.1787	ppb	0.10560	59.11%
Tl 190.801†	-9.6	-4.8156	µg/L	1.51638	-4.8156	ppb	1.51638	31.49%
U 367.007†	26.1	1.064	µg/L	8.2253	1.064	ppb	8.2253	773.40%
V 292.402†	96.1	0.9830	µg/L	0.37960	0.9830	ppb	0.37960	38.61%
Zn 213.857†	160.0	1.7006	µg/L	0.05642	1.7006	ppb	0.05642	3.32%

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Sequence No.: 7 **Autosampler Location: 307**
Sample ID: 335304012|1339675|1 **Date Collected: 11/5/2013 13:49:51**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304012|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5972.9	5972.9	92.8	%			13:50:39
1	Al 396.153Radial†	-154.2	9.2	9.2860	µg/L	9.2860	ppb	13:50:39
1	Ca 317.933Radial†	152978.5	164747.0	158550	µg/L	158550	ppb	13:50:19
1	Fe 238.204 Radial†	989.4	1025.8	1102.6	µg/L	1102.6	ppb	13:50:39
1	K 766.490 Radial†	16408.8	17014.5	14727	µg/L	14727	ppb	13:50:19
1	Mg 279.077 IEC†	11130.9	11982.2	94072	µg/L	94072	ppb	13:50:39
1	Na 589.592 Radial†	18293.1	19889.0	117520	µg/L	117520	ppb	13:50:19
1	Sr 421.552†	143852.4	155849.1	2289.0	µg/L	2289.0	ppb	13:50:19
1	Sc 361.383	517830.1	517830.1	91.349	%			13:51:36
1	Y 371.029	458566.7	458566.7	88.053	%			13:51:36
1	Ag 328.068†	-315.3	-98.3	1.2841	µg/L	1.2841	ppb	13:51:36
1	As 188.979†	-4.6	7.3	6.1754	µg/L	6.1754	ppb	13:51:56
1	B 249.677†	21587.4	23405.7	779.24	µg/L	779.24	ppb	13:51:36
1	Ba 233.527†	46574.3	51039.1	541.60	µg/L	541.60	ppb	13:51:36
1	Be 313.107†	-8073.3	-3329.6	-0.1212	µg/L	-0.1212	ppb	13:51:36
1	Cd 226.502†	-142.3	2.7	-0.0614	µg/L	-0.0614	ppb	13:51:56
1	Co 228.616†	-75.0	33.2	1.3511	µg/L	1.3511	ppb	13:51:56
1	Cr 267.716†	-8.1	-89.9	0.4775	µg/L	0.4775	ppb	13:51:56
1	Cu 324.752†	1910.0	-263.9	-1.3279	µg/L	-1.3279	ppb	13:51:36
1	Mn 257.610†	40194.6	43605.7	68.696	µg/L	68.696	ppb	13:51:36
1	Mo 202.031†	9.4	-1.0	-0.0690	µg/L	-0.0690	ppb	13:51:56
1	Ni 231.604†	178.4	308.6	11.610	µg/L	11.610	ppb	13:51:56
1	P 214.914†	130.6	88.6	82.882	µg/L	82.882	ppb	13:51:56
1	Pb 220.353†	62.1	-102.8	-9.7742	µg/L	-9.7742	ppb	13:51:56
1	S 181.975 Axial†	1356.7	1432.9	3919.7	µg/L	3919.7	ppb	13:51:56
1	Sb 206.836†	59.1	1.0	0.3137	µg/L	0.3137	ppb	13:51:56
1	Se 196.026†	-70.2	-26.6	-44.969	µg/L	-44.969	ppb	13:51:56
1	SiO2†	260324.4	283787.8	36076	µg/L	36076	ppb	13:51:36
1	Si 251.611†	269948.6	295215.9	16726	µg/L	16726	ppb	13:51:36
1	Sn 189.927†	-212.4	-255.6	-33.557	µg/L	-33.557	ppb	13:51:56
1	Ti 334.940†	-2555.2	-2311.2	-0.9423	µg/L	-0.9423	ppb	13:51:36
1	Tl 190.801†	-35.1	-12.3	-6.1233	µg/L	-6.1233	ppb	13:51:56
1	U 367.007†	552.2	66.8	-12.34	µg/L	-12.34	ppb	13:51:36
1	V 292.402†	411.5	374.6	3.8139	µg/L	3.8139	ppb	13:51:36
1	Zn 213.857†	956.9	336.3	2.3590	µg/L	2.3590	ppb	13:51:56
2	Sc RADIAL	5997.7	5997.7	93.2	%			13:51:04
2	Al 396.153Radial†	-157.3	6.6	6.5695	µg/L	6.5695	ppb	13:51:04
2	Ca 317.933Radial†	154226.5	165402.8	159180	µg/L	159180	ppb	13:50:44
2	Fe 238.204 Radial†	993.7	1026.0	1102.9	µg/L	1102.9	ppb	13:51:04
2	K 766.490 Radial†	16627.7	17176.1	14865	µg/L	14865	ppb	13:50:44
2	Mg 279.077 IEC†	11200.5	12007.3	94269	µg/L	94269	ppb	13:51:04
2	Na 589.592 Radial†	18923.5	20483.6	121040	µg/L	121040	ppb	13:50:44
2	Sr 421.552†	145521.8	156997.7	2305.9	µg/L	2305.9	ppb	13:50:44
2	Sc 361.383	518480.1	518480.1	91.464	%			13:52:02
2	Y 371.029	459439.1	459439.1	88.221	%			13:52:02
2	Ag 328.068†	-334.3	-118.6	1.1527	µg/L	1.1527	ppb	13:52:02
2	As 188.979†	-4.6	7.4	6.2236	µg/L	6.2236	ppb	13:52:22
2	B 249.677†	21697.4	23496.4	782.22	µg/L	782.22	ppb	13:52:02
2	Ba 233.527†	46883.5	51313.2	544.51	µg/L	544.51	ppb	13:52:02
2	Be 313.107†	-8127.6	-3377.9	-0.1363	µg/L	-0.1363	ppb	13:52:02
2	Cd 226.502†	-147.9	-3.3	-0.1584	µg/L	-0.1584	ppb	13:52:22
2	Co 228.616†	-60.8	48.9	1.8216	µg/L	1.8216	ppb	13:52:22
2	Cr 267.716†	1.2	-79.7	0.6894	µg/L	0.6894	ppb	13:52:22
2	Cu 324.752†	1879.3	-300.1	-1.5066	µg/L	-1.5066	ppb	13:52:02
2	Mn 257.610†	40534.3	43922.0	69.210	µg/L	69.210	ppb	13:52:02
2	Mo 202.031†	9.9	-0.5	-0.0154	µg/L	-0.0154	ppb	13:52:22
2	Ni 231.604†	152.6	280.1	10.538	µg/L	10.538	ppb	13:52:22
2	P 214.914†	122.7	79.8	74.625	µg/L	74.625	ppb	13:52:22
2	Pb 220.353†	39.4	-127.8	-14.668	µg/L	-14.668	ppb	13:52:22

2	S 181.975 Axial†	1358.0	1432.4	3918.3	µg/L	3918.3	ppb	13:52:22
2	Sb 206.836†	55.4	-3.2	-1.8851	µg/L	-1.8851	ppb	13:52:22
2	Se 196.026†	-44.2	2.0	9.5190	µg/L	9.5190	ppb	13:52:22
2	SiO2†	262637.3	285959.3	36352	µg/L	36352	ppb	13:52:02
2	Si 251.611†	272321.5	297439.8	16852	µg/L	16852	ppb	13:52:02
2	Sn 189.927†	-222.5	-266.3	-36.643	µg/L	-36.643	ppb	13:52:22
2	Ti 334.940†	-2622.3	-2381.1	-1.1201	µg/L	-1.1201	ppb	13:52:02
2	Tl 190.801†	-37.8	-15.1	-7.5221	µg/L	-7.5221	ppb	13:52:22
2	U 367.007†	607.7	126.7	7.498	µg/L	7.498	ppb	13:52:02
2	V 292.402†	438.7	403.7	4.1267	µg/L	4.1267	ppb	13:52:02
2	Zn 213.857†	969.7	349.0	2.5324	µg/L	2.5324	ppb	13:52:22
3	Sc RADIAL	5974.7	5974.7	92.9	%			13:51:30
3	Al 396.153Radial†	-141.1	23.4	24.138	µg/L	24.138	ppb	13:51:30
3	Ca 317.933Radial†	154153.1	165959.9	159720	µg/L	159720	ppb	13:51:10
3	Fe 238.204 Radial†	992.9	1029.2	1106.3	µg/L	1106.3	ppb	13:51:30
3	K 766.490 Radial†	16732.7	17357.7	15024	µg/L	15024	ppb	13:51:10
3	Mg 279.077 IEC†	11192.3	12044.6	94561	µg/L	94561	ppb	13:51:30
3	Na 589.592 Radial†	18625.9	20241.2	119610	µg/L	119610	ppb	13:51:10
3	Sr 421.552†	145325.7	157386.9	2311.6	µg/L	2311.6	ppb	13:51:10
3	Sc 361.383	516586.2	516586.2	91.130	%			13:52:27
3	Y 371.029	457458.5	457458.5	87.840	%			13:52:27
3	Ag 328.068†	-425.8	-220.3	0.4590	µg/L	0.4590	ppb	13:52:27
3	As 188.979†	2.6	15.2	12.707	µg/L	12.707	ppb	13:52:47
3	B 249.677†	21667.7	23550.9	783.97	µg/L	783.97	ppb	13:52:27
3	Ba 233.527†	46598.8	51188.7	543.19	µg/L	543.19	ppb	13:52:27
3	Be 313.107†	-7965.6	-3232.7	-0.0535	µg/L	-0.0535	ppb	13:52:27
3	Cd 226.502†	-150.2	-6.4	-0.2082	µg/L	-0.2082	ppb	13:52:47
3	Co 228.616†	-70.8	37.7	1.4847	µg/L	1.4847	ppb	13:52:47
3	Cr 267.716†	-13.0	-95.2	0.3646	µg/L	0.3646	ppb	13:52:47
3	Cu 324.752†	1895.7	-274.6	-1.3727	µg/L	-1.3727	ppb	13:52:27
3	Mn 257.610†	40320.1	43849.5	69.081	µg/L	69.081	ppb	13:52:27
3	Mo 202.031†	5.2	-5.5	-0.6101	µg/L	-0.6101	ppb	13:52:47
3	Ni 231.604†	181.7	312.7	11.763	µg/L	11.763	ppb	13:52:47
3	P 214.914†	128.6	86.8	81.161	µg/L	81.161	ppb	13:52:47
3	Pb 220.353†	87.3	-75.0	-4.2213	µg/L	-4.2213	ppb	13:52:47
3	S 181.975 Axial†	1355.5	1435.2	3925.9	µg/L	3925.9	ppb	13:52:47
3	Sb 206.836†	59.2	1.3	0.4594	µg/L	0.4594	ppb	13:52:47
3	Se 196.026†	-57.5	-12.7	-18.525	µg/L	-18.525	ppb	13:52:47
3	SiO2†	261260.7	285501.4	36289	µg/L	36289	ppb	13:52:27
3	Si 251.611†	270732.1	296787.2	16813	µg/L	16813	ppb	13:52:27
3	Sn 189.927†	-222.0	-266.6	-36.594	µg/L	-36.594	ppb	13:52:47
3	Ti 334.940†	-2641.6	-2412.7	-1.1872	µg/L	-1.1872	ppb	13:52:27
3	Tl 190.801†	-41.9	-19.8	-9.8822	µg/L	-9.8822	ppb	13:52:47
3	U 367.007†	600.4	121.1	5.507	µg/L	5.507	ppb	13:52:27
3	V 292.402†	414.0	378.5	3.8617	µg/L	3.8617	ppb	13:52:27
3	Zn 213.857†	976.1	359.9	2.6650	µg/L	2.6650	ppb	13:52:47

Mean Data: 335304012|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	517632.1	91.314	%	0.1698				0.19%
Sc RADIAL	5981.8	93.0	%	0.22				0.23%
Y 371.029	458488.1	88.038	%	0.1906				0.22%
Ag 328.068†	-145.7	0.9653	µg/L	0.44330	0.9653	ppb	0.44330	45.93%
Al 396.153Radial†	13.1	13.331	µg/L	9.4569	13.331	ppb	9.4569	70.94%
As 188.979†	10.0	8.3687	µg/L	3.75723	8.3687	ppb	3.75723	44.90%
B 249.677†	23484.3	781.81	µg/L	2.392	781.81	ppb	2.392	0.31%
Ba 233.527†	51180.4	543.10	µg/L	1.457	543.10	ppb	1.457	0.27%
Be 313.107†	-3313.4	-0.1037	µg/L	0.04413	-0.1037	ppb	0.04413	42.57%
Ca 317.933Radial†	165369.9	159150	µg/L	584.4	159150	ppb	584.4	0.37%
Cd 226.502†	-2.3	-0.1427	µg/L	0.07468	-0.1427	ppb	0.07468	52.34%
Co 228.616†	39.9	1.5525	µg/L	0.24244	1.5525	ppb	0.24244	15.62%
Cr 267.716†	-88.3	0.5105	µg/L	0.16489	0.5105	ppb	0.16489	32.30%
Cu 324.752†	-279.5	-1.4024	µg/L	0.09299	-1.4024	ppb	0.09299	6.63%
Fe 238.204 Radial†	1027.0	1103.9	µg/L	2.05	1103.9	ppb	2.05	0.19%
K 766.490 Radial†	17182.8	14872	µg/L	148.8	14872	ppb	148.8	1.00%
Mg 279.077 IEC†	12011.4	94301	µg/L	246.3	94301	ppb	246.3	0.26%
Mn 257.610†	43792.4	68.996	µg/L	0.2677	68.996	ppb	0.2677	0.39%
Mo 202.031†	-2.3	-0.2315	µg/L	0.32900	-0.2315	ppb	0.32900	142.11%
Na 589.592 Radial†	20204.6	119390	µg/L	1766.6	119390	ppb	1766.6	1.48%

Ni 231.604†	300.5	11.304	µg/L	0.6672	11.304	ppb	0.6672	5.90%
P 214.914†	85.1	79.556	µg/L	4.3565	79.556	ppb	4.3565	5.48%
Pb 220.353†	-101.8	-9.5545	µg/L	5.22679	-9.5545	ppb	5.22679	54.71%
S 181.975 Axial†	1433.5	3921.3	µg/L	4.06	3921.3	ppb	4.06	0.10%
Sb 206.836†	-0.3	-0.3707	µg/L	1.31356	-0.3707	ppb	1.31356	354.39%
Se 196.026†	-12.4	-17.992	µg/L	27.2479	-17.992	ppb	27.2479	151.45%
SiO2†	285082.8	36239	µg/L	144.5	36239	ppb	144.5	0.40%
Si 251.611†	296481.0	16797	µg/L	64.4	16797	ppb	64.4	0.38%
Sn 189.927†	-262.9	-35.598	µg/L	1.7675	-35.598	ppb	1.7675	4.97%
Sr 421.552†	156744.5	2302.1	µg/L	11.74	2302.1	ppb	11.74	0.51%
Ti 334.940†	-2368.3	-1.0832	µg/L	0.12654	-1.0832	ppb	0.12654	11.68%
Tl 190.801†	-15.7	-7.8425	µg/L	1.89981	-7.8425	ppb	1.89981	24.22%
U 367.007†	104.9	0.222	µg/L	10.9234	0.222	ppb	10.9234	>999.9%
V 292.402†	385.6	3.9341	µg/L	0.16848	3.9341	ppb	0.16848	4.28%
Zn 213.857†	348.4	2.5188	µg/L	0.15342	2.5188	ppb	0.15342	6.09%

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Sequence No.: 8 **Autosampler Location: 308**
Sample ID: 335304013|1339675|1 **Date Collected: 11/5/2013 13:52:55**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304013|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5986.2	5986.2	93.0	%			13:53:28
1	Al 396.153Radial†	-104.0	63.6	62.444	µg/L	62.444	ppb	13:53:28
1	Ca 317.933Radial†	107454.6	115448.1	111110	µg/L	111110	ppb	13:53:23
1	Fe 238.204 Radial†	14246.8	15272.8	16416	µg/L	16416	ppb	13:53:28
1	K 766.490 Radial†	50824.7	53966.1	46862	µg/L	46862	ppb	13:53:23
1	Mg 279.077 IEC†	5045.0	5414.1	42506	µg/L	42506	ppb	13:53:28
1	Na 589.592 Radial†	11385.6	12420.6	73394	µg/L	73394	ppb	13:53:28
1	Sr 421.552†	45937.7	50261.1	737.90	µg/L	737.90	ppb	13:53:23
1	Sc 361.383	521631.3	521631.3	92.020	%			13:53:55
1	Y 371.029	463195.0	463195.0	88.942	%			13:53:55
1	Ag 328.068†	-782.6	-603.6	1.3996	µg/L	1.3996	ppb	13:53:55
1	As 188.979†	-6.0	5.9	6.4361	µg/L	6.4361	ppb	13:54:15
1	B 249.677†	20452.1	21999.8	715.15	µg/L	715.15	ppb	13:53:55
1	Ba 233.527†	150741.6	163868.5	1738.6	µg/L	1738.6	ppb	13:53:55
1	Be 313.107†	-7308.5	-2434.0	-0.1193	µg/L	-0.1193	ppb	13:53:55
1	Cd 226.502†	-67.5	85.0	-0.2472	µg/L	-0.2472	ppb	13:54:15
1	Co 228.616†	-112.0	-6.4	0.8613	µg/L	0.8613	ppb	13:54:15
1	Cr 267.716†	36.0	-41.9	0.2281	µg/L	0.2281	ppb	13:54:15
1	Cu 324.752†	2010.5	-170.0	-0.1014	µg/L	-0.1014	ppb	13:53:55
1	Mn 257.610†	236912.5	257063.1	423.96	µg/L	423.96	ppb	13:53:55
1	Mo 202.031†	9.3	-1.2	0.5371	µg/L	0.5371	ppb	13:54:15
1	Ni 231.604†	-34.0	76.3	3.3214	µg/L	3.3214	ppb	13:54:15
1	P 214.914†	647.5	649.3	600.65	µg/L	600.65	ppb	13:54:15
1	Pb 220.353†	85.5	-77.9	-7.8911	µg/L	-7.8911	ppb	13:54:15
1	S 181.975 Axial†	618.2	619.6	1695.7	µg/L	1695.7	ppb	13:54:15
1	Sb 206.836†	72.7	15.3	7.3584	µg/L	7.3584	ppb	13:54:15
1	Se 196.026†	-53.0	-7.3	-0.9193	µg/L	-0.9193	ppb	13:54:15
1	SiO2†	251391.5	272003.6	33830	µg/L	33830	ppb	13:53:55
1	Si 251.611†	260252.6	282525.6	15666	µg/L	15666	ppb	13:53:55
1	Sn 189.927†	-186.4	-225.7	-38.226	µg/L	-38.226	ppb	13:54:15
1	Ti 334.940†	-1471.5	-1113.1	0.8778	µg/L	0.8778	ppb	13:53:55
1	Tl 190.801†	-33.6	-10.4	-4.8714	µg/L	-4.8714	ppb	13:54:15
1	U 367.007†	799.3	330.9	3.406	µg/L	3.406	ppb	13:53:55
1	V 292.402†	151.0	88.2	1.0364	µg/L	1.0364	ppb	13:53:55
1	Zn 213.857†	1425.7	838.2	8.6716	µg/L	8.6716	ppb	13:54:15
2	Sc RADIAL	5987.0	5987.0	93.1	%			13:53:38
2	Al 396.153Radial†	-67.0	103.3	103.93	µg/L	103.93	ppb	13:53:38
2	Ca 317.933Radial†	108049.5	116072.8	111710	µg/L	111710	ppb	13:53:33
2	Fe 238.204 Radial†	14302.0	15330.2	16478	µg/L	16478	ppb	13:53:38
2	K 766.490 Radial†	51168.7	54328.8	47178	µg/L	47178	ppb	13:53:33
2	Mg 279.077 IEC†	5023.2	5390.1	42317	µg/L	42317	ppb	13:53:38
2	Na 589.592 Radial†	11126.3	12140.4	71738	µg/L	71738	ppb	13:53:38
2	Sr 421.552†	46319.2	50664.9	743.83	µg/L	743.83	ppb	13:53:33
2	Sc 361.383	527254.8	527254.8	93.012	%			13:54:21
2	Y 371.029	467430.2	467430.2	89.755	%			13:54:21
2	Ag 328.068†	-914.3	-736.1	0.5149	µg/L	0.5149	ppb	13:54:21
2	As 188.979†	-8.4	3.4	4.3633	µg/L	4.3633	ppb	13:54:41
2	B 249.677†	20552.2	21870.4	710.65	µg/L	710.65	ppb	13:54:21
2	Ba 233.527†	152038.1	163515.2	1734.9	µg/L	1734.9	ppb	13:54:21
2	Be 313.107†	-7271.2	-2309.3	-0.0415	µg/L	-0.0415	ppb	13:54:21
2	Cd 226.502†	-51.2	103.4	0.0433	µg/L	0.0433	ppb	13:54:41
2	Co 228.616†	-118.7	-12.3	0.6824	µg/L	0.6824	ppb	13:54:41
2	Cr 267.716†	32.3	-46.3	0.1173	µg/L	0.1173	ppb	13:54:41
2	Cu 324.752†	1891.4	-321.3	-0.8820	µg/L	-0.8820	ppb	13:54:21
2	Mn 257.610†	238881.9	256434.5	422.93	µg/L	422.93	ppb	13:54:21
2	Mo 202.031†	12.4	2.0	0.9275	µg/L	0.9275	ppb	13:54:41
2	Ni 231.604†	-36.1	74.4	3.2532	µg/L	3.2532	ppb	13:54:41
2	P 214.914†	653.9	648.6	599.96	µg/L	599.96	ppb	13:54:41
2	Pb 220.353†	117.5	-44.5	-1.2715	µg/L	-1.2715	ppb	13:54:41

2	S 181.975 Axial†	620.6	615.0	1683.0	µg/L	1683.0	ppb	13:54:41
2	Sb 206.836†	78.5	20.7	10.233	µg/L	10.233	ppb	13:54:41
2	Se 196.026†	-57.7	-11.7	-9.1034	µg/L	-9.1034	ppb	13:54:41
2	SiO2†	253155.0	270985.8	33692	µg/L	33692	ppb	13:54:21
2	Si 251.611†	262326.2	281738.6	15618	µg/L	15618	ppb	13:54:21
2	Sn 189.927†	-190.5	-227.8	-38.688	µg/L	-38.688	ppb	13:54:41
2	Ti 334.940†	-1377.1	-994.6	1.2165	µg/L	1.2165	ppb	13:54:21
2	Tl 190.801†	-37.4	-14.0	-6.6751	µg/L	-6.6751	ppb	13:54:41
2	U 367.007†	872.2	400.0	25.96	µg/L	25.96	ppb	13:54:21
2	V 292.402†	185.5	123.6	1.4173	µg/L	1.4173	ppb	13:54:21
2	Zn 213.857†	1402.4	796.5	8.0985	µg/L	8.0985	ppb	13:54:41
3	Sc RADIAL	6074.8	6074.8	94.4	%			13:53:49
3	Al 396.153Radial†	-80.8	89.7	89.768	µg/L	89.768	ppb	13:53:49
3	Ca 317.933Radial†	107895.4	114231.5	109940	µg/L	109940	ppb	13:53:43
3	Fe 238.204 Radial†	14353.2	15162.3	16297	µg/L	16297	ppb	13:53:49
3	K 766.490 Radial†	51198.9	53566.2	46515	µg/L	46515	ppb	13:53:43
3	Mg 279.077 IEC†	5080.0	5372.2	42177	µg/L	42177	ppb	13:53:49
3	Na 589.592 Radial†	11386.8	12243.5	72347	µg/L	72347	ppb	13:53:49
3	Sr 421.552†	46187.2	49805.8	731.22	µg/L	731.22	ppb	13:53:43
3	Sc 361.383	520969.5	520969.5	91.903	%			13:54:46
3	Y 371.029	462258.4	462258.4	88.762	%			13:54:46
3	Ag 328.068†	-912.1	-745.6	0.3832	µg/L	0.3832	ppb	13:54:46
3	As 188.979†	-18.8	-8.1	-5.1765	µg/L	-5.1765	ppb	13:55:06
3	B 249.677†	20314.7	21878.5	711.25	µg/L	711.25	ppb	13:54:46
3	Ba 233.527†	150142.3	163424.6	1733.9	µg/L	1733.9	ppb	13:54:46
3	Be 313.107†	-7153.8	-2275.8	-0.0447	µg/L	-0.0447	ppb	13:54:46
3	Cd 226.502†	-66.1	86.5	-0.2122	µg/L	-0.2122	ppb	13:55:06
3	Co 228.616†	-109.2	-3.4	0.9460	µg/L	0.9460	ppb	13:55:06
3	Cr 267.716†	36.1	-41.7	0.2153	µg/L	0.2153	ppb	13:55:06
3	Cu 324.752†	1904.3	-282.7	-0.6942	µg/L	-0.6942	ppb	13:54:46
3	Mn 257.610†	235970.2	256364.8	422.81	µg/L	422.81	ppb	13:54:46
3	Mo 202.031†	9.0	-1.5	0.4956	µg/L	0.4956	ppb	13:55:06
3	Ni 231.604†	-1.1	112.1	4.6609	µg/L	4.6609	ppb	13:55:06
3	P 214.914†	661.5	665.4	615.99	µg/L	615.99	ppb	13:55:06
3	Pb 220.353†	113.3	-47.5	-1.9874	µg/L	-1.9874	ppb	13:55:06
3	S 181.975 Axial†	615.9	617.9	1691.1	µg/L	1691.1	ppb	13:55:06
3	Sb 206.836†	60.0	1.6	0.1320	µg/L	0.1320	ppb	13:55:06
3	Se 196.026†	-43.9	2.5	17.822	µg/L	17.822	ppb	13:55:06
3	SiO2†	249960.1	270793.0	33683	µg/L	33683	ppb	13:54:46
3	Si 251.611†	258877.1	281388.2	15605	µg/L	15605	ppb	13:54:46
3	Sn 189.927†	-188.9	-228.7	-39.476	µg/L	-39.476	ppb	13:55:06
3	Ti 334.940†	-1372.8	-1007.8	1.1184	µg/L	1.1184	ppb	13:54:46
3	Tl 190.801†	-33.6	-10.4	-4.8716	µg/L	-4.8716	ppb	13:55:06
3	U 367.007†	827.3	362.6	14.77	µg/L	14.77	ppb	13:54:46
3	V 292.402†	183.6	123.9	1.4054	µg/L	1.4054	ppb	13:54:46
3	Zn 213.857†	1414.4	827.8	8.5449	µg/L	8.5449	ppb	13:55:06

Mean Data: 335304013|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	523285.2	92.312	%	0.6093				0.66%
Sc RADIAL	6016.0	93.5	%	0.79				0.85%
Y 371.029	464294.5	89.153	%	0.5291				0.59%
Ag 328.068†	-695.1	0.7659	µg/L	0.55274	0.7659	ppb	0.55274	72.17%
Al 396.153Radial†	85.5	85.382	µg/L	21.0895	85.382	ppb	21.0895	24.70%
As 188.979†	0.4	1.8743	µg/L	6.19353	1.8743	ppb	6.19353	330.44%
B 249.677†	21916.2	712.35	µg/L	2.444	712.35	ppb	2.444	0.34%
Ba 233.527†	163602.8	1735.8	µg/L	2.49	1735.8	ppb	2.49	0.14%
Be 313.107†	-2339.7	-0.0685	µg/L	0.04400	-0.0685	ppb	0.04400	64.23%
Ca 317.933Radial†	115250.8	110920	µg/L	901.2	110920	ppb	901.2	0.81%
Cd 226.502†	91.6	-0.1387	µg/L	0.15861	-0.1387	ppb	0.15861	114.36%
Co 228.616†	-7.4	0.8299	µg/L	0.13461	0.8299	ppb	0.13461	16.22%
Cr 267.716†	-43.3	0.1869	µg/L	0.06063	0.1869	ppb	0.06063	32.45%
Cu 324.752†	-258.0	-0.5592	µg/L	0.40742	-0.5592	ppb	0.40742	72.86%
Fe 238.204 Radial†	15255.1	16397	µg/L	91.7	16397	ppb	91.7	0.56%
K 766.490 Radial†	53953.7	46852	µg/L	331.7	46852	ppb	331.7	0.71%
Mg 279.077 IEC†	5392.1	42333	µg/L	165.3	42333	ppb	165.3	0.39%
Mn 257.610†	256620.8	423.23	µg/L	0.631	423.23	ppb	0.631	0.15%
Mo 202.031†	-0.2	0.6534	µg/L	0.23827	0.6534	ppb	0.23827	36.47%
Na 589.592 Radial†	12268.2	72493	µg/L	837.5	72493	ppb	837.5	1.16%

Ni 231.604†	87.6	3.7451	µg/L	0.79379	3.7451	ppb	0.79379	21.20%
P 214.914†	654.5	605.53	µg/L	9.059	605.53	ppb	9.059	1.50%
Pb 220.353†	-56.6	-3.7167	µg/L	3.63284	-3.7167	ppb	3.63284	97.74%
S 181.975 Axial†	617.5	1689.9	µg/L	6.43	1689.9	ppb	6.43	0.38%
Sb 206.836†	12.5	5.9078	µg/L	5.20435	5.9078	ppb	5.20435	88.09%
Se 196.026†	-5.5	2.5999	µg/L	13.80357	2.5999	ppb	13.80357	530.92%
SiO2†	271260.8	33735	µg/L	82.4	33735	ppb	82.4	0.24%
Si 251.611†	281884.2	15630	µg/L	32.3	15630	ppb	32.3	0.21%
Sn 189.927†	-227.4	-38.797	µg/L	0.6323	-38.797	ppb	0.6323	1.63%
Sr 421.552†	50243.9	737.65	µg/L	6.310	737.65	ppb	6.310	0.86%
Ti 334.940†	-1038.5	1.0709	µg/L	0.17423	1.0709	ppb	0.17423	16.27%
Tl 190.801†	-11.6	-5.4727	µg/L	1.04129	-5.4727	ppb	1.04129	19.03%
U 367.007†	364.5	14.71	µg/L	11.275	14.71	ppb	11.275	76.65%
V 292.402†	111.9	1.2864	µg/L	0.21655	1.2864	ppb	0.21655	16.83%
Zn 213.857†	820.8	8.4383	µg/L	0.30107	8.4383	ppb	0.30107	3.57%

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Sequence No.: 9 **Autosampler Location: 309**
Sample ID: 335304014|1339675|1 **Date Collected: 11/5/2013 13:55:14**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304014|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6039.1	6039.1	93.9	%			13:55:47
1	Al 396.153Radial†	-140.0	26.1	23.307	µg/L	23.307	ppb	13:55:47
1	Ca 317.933Radial†	106405.2	113319.6	109060	µg/L	109060	ppb	13:55:42
1	Fe 238.204 Radial†	14306.8	15202.7	16341	µg/L	16341	ppb	13:55:47
1	K 766.490 Radial†	50154.7	52774.3	45827	µg/L	45827	ppb	13:55:42
1	Mg 279.077 IEC†	5085.4	5409.8	42472	µg/L	42472	ppb	13:55:47
1	Na 589.592 Radial†	11333.6	12258.1	72434	µg/L	72434	ppb	13:55:47
1	Sr 421.552†	45724.9	49602.4	728.23	µg/L	728.23	ppb	13:55:42
1	Sc 361.383	526139.1	526139.1	92.815	%			13:56:14
1	Y 371.029	466103.7	466103.7	89.500	%			13:56:14
1	Ag 328.068†	-869.6	-690.1	0.7617	µg/L	0.7617	ppb	13:56:14
1	As 188.979†	-9.4	2.2	3.3713	µg/L	3.3713	ppb	13:56:34
1	B 249.677†	20494.2	21854.8	710.78	µg/L	710.78	ppb	13:56:14
1	Ba 233.527†	150784.2	162510.9	1724.2	µg/L	1724.2	ppb	13:56:14
1	Be 313.107†	-7270.5	-2325.0	-0.0846	µg/L	-0.0846	ppb	13:56:14
1	Cd 226.502†	-65.8	87.5	-0.2003	µg/L	-0.2003	ppb	13:56:34
1	Co 228.616†	-130.1	-24.8	0.3039	µg/L	0.3039	ppb	13:56:34
1	Cr 267.716†	24.8	-54.3	-0.0200	µg/L	-0.0200	ppb	13:56:34
1	Cu 324.752†	2008.5	-190.8	-0.2208	µg/L	-0.2208	ppb	13:56:14
1	Mn 257.610†	227885.9	245131.8	404.27	µg/L	404.27	ppb	13:56:14
1	Mo 202.031†	9.8	-0.7	0.5927	µg/L	0.5927	ppb	13:56:34
1	Ni 231.604†	-58.0	50.8	2.3605	µg/L	2.3605	ppb	13:56:34
1	P 214.914†	646.3	642.0	593.80	µg/L	593.80	ppb	13:56:34
1	Pb 220.353†	106.7	-55.8	-3.6528	µg/L	-3.6528	ppb	13:56:34
1	S 181.975 Axial†	618.3	613.9	1680.0	µg/L	1680.0	ppb	13:56:34
1	Sb 206.836†	62.5	3.6	1.2104	µg/L	1.2104	ppb	13:56:34
1	Se 196.026†	-44.1	2.8	18.264	µg/L	18.264	ppb	13:56:34
1	SiO2†	247926.7	265929.8	33074	µg/L	33074	ppb	13:56:14
1	Si 251.611†	256401.5	275953.2	15301	µg/L	15301	ppb	13:56:14
1	Sn 189.927†	-198.6	-237.1	-42.360	µg/L	-42.360	ppb	13:56:34
1	Ti 334.940†	-1842.6	-1499.3	-0.2534	µg/L	-0.2534	ppb	13:56:14
1	Tl 190.801†	-27.0	-2.9	-1.1362	µg/L	-1.1362	ppb	13:56:34
1	U 367.007†	777.1	299.6	-6.263	µg/L	-6.263	ppb	13:56:14
1	V 292.402†	109.2	41.8	0.5587	µg/L	0.5587	ppb	13:56:14
1	Zn 213.857†	940.6	302.2	1.4193	µg/L	1.4193	ppb	13:56:34
2	Sc RADIAL	6018.5	6018.5	93.5	%			13:55:57
2	Al 396.153Radial†	-166.5	-2.6	-6.7558	µg/L	-6.7558	ppb	13:55:57
2	Ca 317.933Radial†	106963.6	114305.0	110010	µg/L	110010	ppb	13:55:52
2	Fe 238.204 Radial†	14269.6	15215.2	16354	µg/L	16354	ppb	13:55:57
2	K 766.490 Radial†	50555.3	53385.7	46357	µg/L	46357	ppb	13:55:52
2	Mg 279.077 IEC†	5035.2	5374.7	42197	µg/L	42197	ppb	13:55:57
2	Na 589.592 Radial†	11553.3	12534.4	74066	µg/L	74066	ppb	13:55:57
2	Sr 421.552†	45959.4	50020.1	734.37	µg/L	734.37	ppb	13:55:52
2	Sc 361.383	522528.9	522528.9	92.178	%			13:56:40
2	Y 371.029	463656.1	463656.1	89.030	%			13:56:40
2	Ag 328.068†	-787.2	-607.2	1.3410	µg/L	1.3410	ppb	13:56:40
2	As 188.979†	-9.0	2.6	3.7335	µg/L	3.7335	ppb	13:57:00
2	B 249.677†	20302.9	21799.8	708.68	µg/L	708.68	ppb	13:56:40
2	Ba 233.527†	149757.3	162519.3	1724.3	µg/L	1724.3	ppb	13:56:40
2	Be 313.107†	-7293.7	-2404.3	-0.1160	µg/L	-0.1160	ppb	13:56:40
2	Cd 226.502†	-70.9	81.5	-0.2983	µg/L	-0.2983	ppb	13:57:00
2	Co 228.616†	-122.0	-16.9	0.5398	µg/L	0.5398	ppb	13:57:00
2	Cr 267.716†	27.3	-51.3	0.0332	µg/L	0.0332	ppb	13:57:00
2	Cu 324.752†	2071.8	-107.2	0.2233	µg/L	0.2233	ppb	13:56:40
2	Mn 257.610†	226332.1	245142.6	404.30	µg/L	404.30	ppb	13:56:40
2	Mo 202.031†	5.9	-4.9	0.0958	µg/L	0.0958	ppb	13:57:00
2	Ni 231.604†	-46.6	62.7	2.8108	µg/L	2.8108	ppb	13:57:00
2	P 214.914†	645.7	646.1	597.64	µg/L	597.64	ppb	13:57:00
2	Pb 220.353†	92.7	-70.3	-6.4206	µg/L	-6.4206	ppb	13:57:00

2	S 181.975 Axial†	609.2	608.6	1665.7	µg/L	1665.7	ppb	13:57:00
2	Sb 206.836†	58.4	-0.4	-0.9370	µg/L	-0.9370	ppb	13:57:00
2	Se 196.026†	-65.6	-20.8	-26.745	µg/L	-26.745	ppb	13:57:00
2	SiO2†	246311.6	266023.3	33074	µg/L	33074	ppb	13:56:40
2	Si 251.611†	254880.9	276212.2	15310	µg/L	15310	ppb	13:56:40
2	Sn 189.927†	-195.3	-235.0	-41.394	µg/L	-41.394	ppb	13:57:00
2	Ti 334.940†	-2019.9	-1705.4	-0.7805	µg/L	-0.7805	ppb	13:56:40
2	Tl 190.801†	-32.3	-8.8	-4.1202	µg/L	-4.1202	ppb	13:57:00
2	U 367.007†	785.8	314.8	-1.470	µg/L	-1.470	ppb	13:56:40
2	V 292.402†	61.1	-9.6	0.0376	µg/L	0.0376	ppb	13:56:40
2	Zn 213.857†	914.9	281.3	1.1254	µg/L	1.1254	ppb	13:57:00
3	Sc RADIAL	6044.9	6044.9	94.0	%			13:56:08
3	Al 396.153Radial†	-151.3	14.2	10.877	µg/L	10.877	ppb	13:56:08
3	Ca 317.933Radial†	107208.6	114065.1	109780	µg/L	109780	ppb	13:56:03
3	Fe 238.204 Radial†	14247.5	15124.9	16257	µg/L	16257	ppb	13:56:08
3	K 766.490 Radial†	50620.1	53218.0	46212	µg/L	46212	ppb	13:56:03
3	Mg 279.077 IEC†	5044.8	5361.3	42092	µg/L	42092	ppb	13:56:08
3	Na 589.592 Radial†	11471.0	12392.7	73229	µg/L	73229	ppb	13:56:08
3	Sr 421.552†	46103.8	49958.7	733.47	µg/L	733.47	ppb	13:56:03
3	Sc 361.383	525981.0	525981.0	92.787	%			13:57:05
3	Y 371.029	466662.4	466662.4	89.608	%			13:57:05
3	Ag 328.068†	-945.4	-772.0	0.1864	µg/L	0.1864	ppb	13:57:05
3	As 188.979†	-22.9	-12.3	-8.6639	µg/L	-8.6639	ppb	13:57:25
3	B 249.677†	20472.9	21838.4	710.06	µg/L	710.06	ppb	13:57:05
3	Ba 233.527†	150790.7	162566.8	1724.8	µg/L	1724.8	ppb	13:57:05
3	Be 313.107†	-7260.4	-2316.5	-0.0695	µg/L	-0.0695	ppb	13:57:05
3	Cd 226.502†	-89.1	62.4	-0.5978	µg/L	-0.5978	ppb	13:57:25
3	Co 228.616†	-121.9	-16.0	0.5693	µg/L	0.5693	ppb	13:57:25
3	Cr 267.716†	55.9	-20.8	0.6797	µg/L	0.6797	ppb	13:57:25
3	Cu 324.752†	2097.7	-94.0	0.2935	µg/L	0.2935	ppb	13:57:05
3	Mn 257.610†	228023.4	245353.8	404.64	µg/L	404.64	ppb	13:57:05
3	Mo 202.031†	13.5	3.3	1.0666	µg/L	1.0666	ppb	13:57:25
3	Ni 231.604†	-42.8	67.1	2.9731	µg/L	2.9731	ppb	13:57:25
3	P 214.914†	652.8	649.2	600.63	µg/L	600.63	ppb	13:57:25
3	Pb 220.353†	98.0	-65.2	-5.4353	µg/L	-5.4353	ppb	13:57:25
3	S 181.975 Axial†	616.8	612.5	1676.2	µg/L	1676.2	ppb	13:57:25
3	Sb 206.836†	67.5	9.0	4.0472	µg/L	4.0472	ppb	13:57:25
3	Se 196.026†	-48.0	-1.5	10.139	µg/L	10.139	ppb	13:57:25
3	SiO2†	247868.8	265947.7	33068	µg/L	33068	ppb	13:57:05
3	Si 251.611†	256531.1	276175.9	15310	µg/L	15310	ppb	13:57:05
3	Sn 189.927†	-200.0	-238.6	-42.570	µg/L	-42.570	ppb	13:57:25
3	Ti 334.940†	-2069.8	-1744.7	-0.9009	µg/L	-0.9009	ppb	13:57:05
3	Tl 190.801†	-37.1	-13.8	-6.6102	µg/L	-6.6102	ppb	13:57:25
3	U 367.007†	816.6	342.4	8.270	µg/L	8.270	ppb	13:57:05
3	V 292.402†	147.4	83.0	0.9949	µg/L	0.9949	ppb	13:57:05
3	Zn 213.857†	934.1	295.5	1.3298	µg/L	1.3298	ppb	13:57:25

Mean Data: 335304014|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	524883.0	92.593	%	0.3599				0.39%
Sc RADIAL	6034.2	93.8	%	0.22				0.23%
Y 371.029	465474.1	89.379	%	0.3070				0.34%
Ag 328.068†	-689.8	0.7630	µg/L	0.57731	0.7630	ppb	0.57731	75.66%
Al 396.153Radial†	12.6	9.1425	µg/L	15.10609	9.1425	ppb	15.10609	165.23%
As 188.979†	-2.5	-0.5197	µg/L	7.05541	-0.5197	ppb	7.05541	>999.9%
B 249.677†	21831.0	709.84	µg/L	1.069	709.84	ppb	1.069	0.15%
Ba 233.527†	162532.3	1724.4	µg/L	0.32	1724.4	ppb	0.32	0.02%
Be 313.107†	-2348.6	-0.0900	µg/L	0.02376	-0.0900	ppb	0.02376	26.39%
Ca 317.933Radial†	113896.6	109620	µg/L	494.7	109620	ppb	494.7	0.45%
Cd 226.502†	77.1	-0.3655	µg/L	0.20705	-0.3655	ppb	0.20705	56.66%
Co 228.616†	-19.3	0.4710	µg/L	0.14542	0.4710	ppb	0.14542	30.88%
Cr 267.716†	-42.1	0.2310	µg/L	0.38949	0.2310	ppb	0.38949	168.64%
Cu 324.752†	-130.7	0.0986	µg/L	0.27885	0.0986	ppb	0.27885	282.70%
Fe 238.204 Radial†	15180.9	16317	µg/L	52.6	16317	ppb	52.6	0.32%
K 766.490 Radial†	53126.0	46132	µg/L	274.2	46132	ppb	274.2	0.59%
Mg 279.077 IEC†	5382.0	42253	µg/L	196.6	42253	ppb	196.6	0.47%
Mn 257.610†	245209.4	404.41	µg/L	0.207	404.41	ppb	0.207	0.05%
Mo 202.031†	-0.8	0.5850	µg/L	0.48541	0.5850	ppb	0.48541	82.97%
Na 589.592 Radial†	12395.1	73243	µg/L	816.4	73243	ppb	816.4	1.11%

Ni 231.604†	60.2	2.7148	µg/L	0.31735	2.7148	ppb	0.31735	11.69%
P 214.914†	645.8	597.36	µg/L	3.425	597.36	ppb	3.425	0.57%
Pb 220.353†	-63.8	-5.1696	µg/L	1.40293	-5.1696	ppb	1.40293	27.14%
S 181.975 Axial†	611.7	1673.9	µg/L	7.43	1673.9	ppb	7.43	0.44%
Sb 206.836†	4.1	1.4402	µg/L	2.50006	1.4402	ppb	2.50006	173.59%
Se 196.026†	-6.5	0.5528	µg/L	23.98697	0.5528	ppb	23.98697	>999.9%
SiO2†	265966.9	33072	µg/L	3.6	33072	ppb	3.6	0.01%
Si 251.611†	276113.8	15307	µg/L	5.2	15307	ppb	5.2	0.03%
Sn 189.927†	-236.9	-42.108	µg/L	0.6273	-42.108	ppb	0.6273	1.49%
Sr 421.552†	49860.4	732.02	µg/L	3.311	732.02	ppb	3.311	0.45%
Ti 334.940†	-1649.8	-0.6450	µg/L	0.34436	-0.6450	ppb	0.34436	53.39%
Tl 190.801†	-8.5	-3.9555	µg/L	2.74072	-3.9555	ppb	2.74072	69.29%
U 367.007†	318.9	0.179	µg/L	7.4053	0.179	ppb	7.4053	>999.9%
V 292.402†	38.4	0.5304	µg/L	0.47928	0.5304	ppb	0.47928	90.36%
Zn 213.857†	293.0	1.2915	µg/L	0.15064	1.2915	ppb	0.15064	11.66%

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Sequence No.: 10 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 13:57:33**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6154.8	6154.8	95.7	%			13:58:25
1	Al 396.153Radial†	4624.3	5009.5	5191.3	µg/L	5191.3	ppb	13:58:05
1	Ca 317.933Radial†	5065.5	5248.5	5050.6	µg/L	5050.6	ppb	13:58:25
1	Fe 238.204 Radial†	4582.5	4750.5	5110.9	µg/L	5110.9	ppb	13:58:25
1	K 766.490 Radial†	6627.7	6266.8	5436.5	µg/L	5436.5	ppb	13:58:05
1	Mg 279.077 IEC†	636.1	656.7	5155.8	µg/L	5155.8	ppb	13:58:25
1	Na 589.592 Radial†	1728.0	1989.5	11756	µg/L	11756	ppb	13:58:05
1	Sr 421.552†	32818.7	35194.5	517.06	µg/L	517.06	ppb	13:58:05
1	Sc 361.383	549433.0	549433.0	96.924	%			13:59:22
1	Y 371.029	491859.9	491859.9	94.446	%			13:59:22
1	Ag 328.068†	71375.1	73887.0	512.13	µg/L	512.13	ppb	13:59:27
1	As 188.979†	552.5	582.4	484.61	µg/L	484.61	ppb	13:59:47
1	B 249.677†	14334.7	14563.6	485.60	µg/L	485.60	ppb	13:59:27
1	Ba 233.527†	45243.8	46733.7	496.49	µg/L	496.49	ppb	13:59:27
1	Be 313.107†	893107.3	926957.5	496.28	µg/L	496.28	ppb	13:59:22
1	Cd 226.502†	29118.6	30201.1	488.14	µg/L	488.14	ppb	13:59:27
1	Co 228.616†	15841.8	16459.9	491.72	µg/L	491.72	ppb	13:59:27
1	Cr 267.716†	22621.6	23258.5	499.32	µg/L	499.32	ppb	13:59:27
1	Cu 324.752†	95703.8	96386.0	507.91	µg/L	507.91	ppb	13:59:27
1	Mn 257.610†	291050.2	299891.1	495.04	µg/L	495.04	ppb	13:59:27
1	Mo 202.031†	4097.1	4215.8	499.07	µg/L	499.07	ppb	13:59:47
1	Ni 231.604†	12242.9	12744.7	477.94	µg/L	477.94	ppb	13:59:47
1	P 214.914†	2524.5	2550.2	2396.9	µg/L	2396.9	ppb	13:59:47
1	Pb 220.353†	2565.6	2476.3	488.66	µg/L	488.66	ppb	13:59:47
1	S 181.975 Axial†	378.7	338.5	935.58	µg/L	935.58	ppb	13:59:47
1	Sb 206.836†	956.9	923.5	484.48	µg/L	484.48	ppb	13:59:47
1	Se 196.026†	195.0	251.5	488.84	µg/L	488.84	ppb	13:59:47
1	SiO2†	42352.2	42506.8	5366.4	µg/L	5366.4	ppb	13:59:27
1	Si 251.611†	43157.2	44229.9	2466.9	µg/L	2466.9	ppb	13:59:27
1	Sn 189.927†	1539.5	1565.3	482.28	µg/L	482.28	ppb	13:59:47
1	Ti 334.940†	179986.4	186184.1	509.25	µg/L	509.25	ppb	13:59:27
1	Tl 190.801†	926.0	981.6	493.91	µg/L	493.91	ppb	13:59:47
1	U 367.007†	1952.1	1476.4	465.4	µg/L	465.4	ppb	13:59:27
1	V 292.402†	47826.5	49268.3	506.04	µg/L	506.04	ppb	13:59:27
1	Zn 213.857†	36023.7	36455.6	491.71	µg/L	491.71	ppb	13:59:27
2	Sc RADIAL	6164.9	6164.9	95.8	%			13:58:50
2	Al 396.153Radial†	4656.6	5035.3	5218.6	µg/L	5218.6	ppb	13:58:30
2	Ca 317.933Radial†	5059.9	5234.0	5036.7	µg/L	5036.7	ppb	13:58:50
2	Fe 238.204 Radial†	4584.9	4745.2	5105.1	µg/L	5105.1	ppb	13:58:50
2	K 766.490 Radial†	6599.1	6225.6	5400.7	µg/L	5400.7	ppb	13:58:30
2	Mg 279.077 IEC†	636.3	655.8	5148.4	µg/L	5148.4	ppb	13:58:50
2	Na 589.592 Radial†	1741.3	2000.5	11821	µg/L	11821	ppb	13:58:30
2	Sr 421.552†	32832.2	35152.5	516.44	µg/L	516.44	ppb	13:58:30
2	Sc 361.383	552005.9	552005.9	97.378	%			13:59:53
2	Y 371.029	493525.4	493525.4	94.766	%			13:59:53
2	Ag 328.068†	71014.0	73172.9	507.18	µg/L	507.18	ppb	13:59:58
2	As 188.979†	542.8	569.8	474.11	µg/L	474.11	ppb	14:00:18
2	B 249.677†	14252.3	14410.1	480.46	µg/L	480.46	ppb	13:59:58
2	Ba 233.527†	44912.6	46176.0	490.56	µg/L	490.56	ppb	13:59:58
2	Be 313.107†	889080.8	918527.9	491.77	µg/L	491.77	ppb	13:59:53
2	Cd 226.502†	28773.7	29706.9	480.14	µg/L	480.14	ppb	13:59:58
2	Co 228.616†	15800.1	16340.9	488.17	µg/L	488.17	ppb	13:59:58
2	Cr 267.716†	22424.9	22947.7	492.66	µg/L	492.66	ppb	13:59:58
2	Cu 324.752†	95168.1	95375.7	502.58	µg/L	502.58	ppb	13:59:58
2	Mn 257.610†	288947.2	296331.9	489.16	µg/L	489.16	ppb	13:59:58
2	Mo 202.031†	4087.9	4186.7	495.62	µg/L	495.62	ppb	14:00:18
2	Ni 231.604†	12290.8	12735.0	477.58	µg/L	477.58	ppb	14:00:18
2	P 214.914†	2552.1	2566.5	2412.4	µg/L	2412.4	ppb	14:00:18
2	Pb 220.353†	2570.0	2468.4	487.08	µg/L	487.08	ppb	14:00:18

2	S 181.975 Axial†	385.7	343.8	950.18 µg/L	950.18 ppb	14:00:18
2	Sb 206.836†	957.0	919.0	482.21 µg/L	482.21 ppb	14:00:18
2	Se 196.026†	193.3	248.9	483.70 µg/L	483.70 ppb	14:00:18
2	SiO2†	42044.4	41987.1	5300.1 µg/L	5300.1 ppb	13:59:58
2	Si 251.611†	42891.4	43749.4	2439.8 µg/L	2439.8 ppb	13:59:58
2	Sn 189.927†	1545.7	1564.2	481.92 µg/L	481.92 ppb	14:00:18
2	Ti 334.940†	178894.5	184197.3	503.81 µg/L	503.81 ppb	13:59:58
2	Tl 190.801†	927.7	978.9	492.51 µg/L	492.51 ppb	14:00:18
2	U 367.007†	1939.8	1454.4	458.1 µg/L	458.1 ppb	13:59:58
2	V 292.402†	47395.0	48595.2	499.17 µg/L	499.17 ppb	13:59:58
2	Zn 213.857†	35675.6	35924.9	484.50 µg/L	484.50 ppb	13:59:58
3	Sc RADIAL	6163.3	6163.3	95.8 %		13:59:15
3	Al 396.153Radial†	4673.4	5054.0	5237.9 µg/L	5237.9 ppb	13:58:55
3	Ca 317.933Radial†	5029.1	5203.1	5006.9 µg/L	5006.9 ppb	13:59:15
3	Fe 238.204 Radial†	4587.8	4749.4	5109.7 µg/L	5109.7 ppb	13:59:15
3	K 766.490 Radial†	6564.0	6190.8	5370.4 µg/L	5370.4 ppb	13:58:55
3	Mg 279.077 IEC†	645.2	665.2	5222.7 µg/L	5222.7 ppb	13:59:15
3	Na 589.592 Radial†	1706.3	1964.4	11607 µg/L	11607 ppb	13:58:55
3	Sr 421.552†	32864.8	35195.0	517.07 µg/L	517.07 ppb	13:58:55
3	Sc 361.383	547979.9	547979.9	96.668 %		14:00:24
3	Y 371.029	491051.2	491051.2	94.291 %		14:00:24
3	Ag 328.068†	71257.2	73960.3	512.62 µg/L	512.62 ppb	14:00:29
3	As 188.979†	539.2	570.2	474.40 µg/L	474.40 ppb	14:00:49
3	B 249.677†	14317.1	14584.6	486.33 µg/L	486.33 ppb	14:00:29
3	Ba 233.527†	45020.1	46626.1	495.35 µg/L	495.35 ppb	14:00:29
3	Be 313.107†	882286.9	918207.6	491.60 µg/L	491.60 ppb	14:00:24
3	Cd 226.502†	28991.3	30149.0	487.30 µg/L	487.30 ppb	14:00:29
3	Co 228.616†	15805.4	16465.6	491.89 µg/L	491.89 ppb	14:00:29
3	Cr 267.716†	22446.8	23139.6	496.76 µg/L	496.76 ppb	14:00:29
3	Cu 324.752†	95584.4	96524.4	508.65 µg/L	508.65 ppb	14:00:29
3	Mn 257.610†	289513.9	299098.2	493.73 µg/L	493.73 ppb	14:00:29
3	Mo 202.031†	4088.5	4218.1	499.34 µg/L	499.34 ppb	14:00:49
3	Ni 231.604†	12284.3	12821.1	480.80 µg/L	480.80 ppb	14:00:49
3	P 214.914†	2541.9	2575.1	2420.4 µg/L	2420.4 ppb	14:00:49
3	Pb 220.353†	2579.8	2497.9	492.91 µg/L	492.91 ppb	14:00:49
3	S 181.975 Axial†	379.1	339.9	939.42 µg/L	939.42 ppb	14:00:49
3	Sb 206.836†	956.9	926.2	485.97 µg/L	485.97 ppb	14:00:49
3	Se 196.026†	185.7	242.4	471.58 µg/L	471.58 ppb	14:00:49
3	SiO2†	42041.9	42301.7	5341.7 µg/L	5341.7 ppb	14:00:29
3	Si 251.611†	43044.6	44231.4	2467.7 µg/L	2467.7 ppb	14:00:29
3	Sn 189.927†	1543.9	1574.1	484.95 µg/L	484.95 ppb	14:00:49
3	Ti 334.940†	179462.4	186134.4	509.10 µg/L	509.10 ppb	14:00:29
3	Tl 190.801†	926.8	984.9	495.57 µg/L	495.57 ppb	14:00:49
3	U 367.007†	2015.7	1547.6	489.1 µg/L	489.1 ppb	14:00:29
3	V 292.402†	47572.3	49136.2	504.72 µg/L	504.72 ppb	14:00:29
3	Zn 213.857†	35775.8	36297.7	489.54 µg/L	489.54 ppb	14:00:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	549806.3	96.990	%	0.3597				0.37%
Sc RADIAL	6161.0	95.8	%	0.08				0.09%
Y 371.029	492145.5	94.501	%	0.2422				0.26%
Ag 328.068†	73673.4	510.64	µg/L	3.011	510.64	ppb	3.011	0.59%
QC value within limits for Ag 328.068 Recovery = 102.13%								
Al 396.153Radial†	5033.0	5215.9	µg/L	23.38	5215.9	ppb	23.38	0.45%
QC value within limits for Al 396.153Radial Recovery = 104.32%								
As 188.979†	574.1	477.71	µg/L	5.979	477.71	ppb	5.979	1.25%
QC value within limits for As 188.979 Recovery = 95.54%								
B 249.677†	14519.5	484.13	µg/L	3.200	484.13	ppb	3.200	0.66%
QC value within limits for B 249.677 Recovery = 96.83%								
Ba 233.527†	46511.9	494.13	µg/L	3.144	494.13	ppb	3.144	0.64%
QC value within limits for Ba 233.527 Recovery = 98.83%								
Be 313.107†	921231.0	493.22	µg/L	2.655	493.22	ppb	2.655	0.54%
QC value within limits for Be 313.107 Recovery = 98.64%								
Ca 317.933Radial†	5228.6	5031.4	µg/L	22.32	5031.4	ppb	22.32	0.44%
QC value within limits for Ca 317.933Radial Recovery = 100.63%								
Cd 226.502†	30019.0	485.19	µg/L	4.392	485.19	ppb	4.392	0.91%
QC value within limits for Cd 226.502 Recovery = 97.04%								
Co 228.616†	16422.1	490.59	µg/L	2.102	490.59	ppb	2.102	0.43%

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   QC value within limits for Co 228.616  Recovery = 98.12%
Cr 267.716†            23115.2      496.25 µg/L         3.364      496.25 ppb          3.364   0.68%
   QC value within limits for Cr 267.716  Recovery = 99.25%
Cu 324.752†            96095.4      506.38 µg/L         3.309      506.38 ppb          3.309   0.65%
   QC value within limits for Cu 324.752  Recovery = 101.28%
Fe 238.204 Radial†      4748.3      5108.6 µg/L          3.04      5108.6 ppb           3.04   0.06%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.17%
K 766.490 Radial†       6227.8      5402.5 µg/L         33.06      5402.5 ppb          33.06   0.61%
   QC value within limits for K 766.490 Radial  Recovery = 108.05%
Mg 279.077 IEC†          659.2      5175.6 µg/L         40.95      5175.6 ppb          40.95   0.79%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.51%
Mn 257.610†           298440.4      492.64 µg/L         3.083      492.64 ppb          3.083   0.63%
   QC value within limits for Mn 257.610  Recovery = 98.53%
Mo 202.031†             4206.9      498.01 µg/L         2.071      498.01 ppb          2.071   0.42%
   QC value within limits for Mo 202.031  Recovery = 99.60%
Na 589.592 Radial†      1984.8       11728 µg/L         109.4       11728 ppb          109.4   0.93%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 117.28%
Ni 231.604†            12766.9      478.78 µg/L         1.767      478.78 ppb          1.767   0.37%
   QC value within limits for Ni 231.604  Recovery = 95.76%
P 214.914†              2563.9      2409.9 µg/L         11.97      2409.9 ppb          11.97   0.50%
   QC value within limits for P 214.914  Recovery = 96.40%
Pb 220.353†             2480.9      489.55 µg/L         3.012      489.55 ppb          3.012   0.62%
   QC value within limits for Pb 220.353  Recovery = 97.91%
S 181.975 Axial†         340.7      941.73 µg/L         7.571      941.73 ppb          7.571   0.80%
   QC value within limits for S 181.975 Axial  Recovery = 94.17%
Sb 206.836†              922.9      484.22 µg/L         1.895      484.22 ppb          1.895   0.39%
   QC value within limits for Sb 206.836  Recovery = 96.84%
Se 196.026†              247.6      481.37 µg/L         8.865      481.37 ppb          8.865   1.84%
   QC value within limits for Se 196.026  Recovery = 96.27%
SiO2†                  42265.2      5336.1 µg/L         33.52      5336.1 ppb          33.52   0.63%
   QC value within limits for SiO2  Recovery = 99.79%
Si 251.611†            44070.2      2458.1 µg/L         15.86      2458.1 ppb          15.86   0.65%
   QC value within limits for Si 251.611  Recovery = 98.32%
Sn 189.927†             1567.9      483.05 µg/L         1.656      483.05 ppb          1.656   0.34%
   QC value within limits for Sn 189.927  Recovery = 96.61%
Sr 421.552†            35180.7      516.85 µg/L         0.359      516.85 ppb          0.359   0.07%
   QC value within limits for Sr 421.552  Recovery = 103.37%
Ti 334.940†           185505.2      507.39 µg/L         3.094      507.39 ppb          3.094   0.61%
   QC value within limits for Ti 334.940  Recovery = 101.48%
Tl 190.801†              981.8      494.00 µg/L         1.533      494.00 ppb          1.533   0.31%
   QC value within limits for Tl 190.801  Recovery = 98.80%
U 367.007†              1492.8       470.9 µg/L         16.20       470.9 ppb          16.20   3.44%
   QC value within limits for U 367.007  Recovery = 94.18%
V 292.402†             48999.9      503.31 µg/L         3.648      503.31 ppb          3.648   0.72%
   QC value within limits for V 292.402  Recovery = 100.66%
Zn 213.857†            36226.1      488.58 µg/L         3.699      488.58 ppb          3.699   0.76%
   QC value within limits for Zn 213.857  Recovery = 97.72%
QC Failed.  Continue with analysis.
```

Sequence No.: 11 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 14:00:57**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6080.5	6080.5	94.5	%			14:01:25
1	Al 396.153Radial†	-145.7	21.2	22.083	µg/L	22.083	ppb	14:01:25
1	Ca 317.933Radial†	48.9	4.9	4.6728	µg/L	4.6728	ppb	14:01:45
1	Fe 238.204 Radial†	38.1	0.3	0.2942	µg/L	0.2942	ppb	14:01:45
1	K 766.490 Radial†	879.9	269.4	234.07	µg/L	234.07	ppb	14:01:25
1	Mg 279.077 IEC†	15.9	8.5	66.538	µg/L	66.538	ppb	14:01:45
1	Na 589.592 Radial†	-135.7	39.5	233.43	µg/L	233.43	ppb	14:01:25
1	Sr 421.552†	-883.0	-48.2	-0.7084	µg/L	-0.7084	ppb	14:01:25
1	Sc 361.383	531832.7	531832.7	93.819	%			14:02:42
1	Y 371.029	489918.0	489918.0	94.073	%			14:02:42
1	Ag 328.068†	-313.7	-87.5	-0.6013	µg/L	-0.6013	ppb	14:02:42
1	As 188.979†	-19.5	-8.4	-6.9399	µg/L	-6.9399	ppb	14:03:02
1	B 249.677†	285.9	78.8	2.5365	µg/L	2.5365	ppb	14:02:42
1	Ba 233.527†	-83.8	-35.2	-0.3732	µg/L	-0.3732	ppb	14:03:02
1	Be 313.107†	-5278.7	-118.1	-0.0608	µg/L	-0.0608	ppb	14:02:42
1	Cd 226.502†	-169.8	-22.6	-0.3653	µg/L	-0.3653	ppb	14:03:02
1	Co 228.616†	-100.3	8.5	0.2552	µg/L	0.2552	ppb	14:03:02
1	Cr 267.716†	91.3	16.3	0.3449	µg/L	0.3449	ppb	14:03:02
1	Cu 324.752†	2219.4	10.8	0.0633	µg/L	0.0633	ppb	14:02:42
1	Mn 257.610†	361.4	-10.1	-0.0189	µg/L	-0.0189	ppb	14:02:42
1	Mo 202.031†	14.0	3.6	0.4311	µg/L	0.4311	ppb	14:03:02
1	Ni 231.604†	-85.9	21.8	0.8165	µg/L	0.8165	ppb	14:03:02
1	P 214.914†	61.1	10.8	10.196	µg/L	10.196	ppb	14:03:02
1	Pb 220.353†	144.2	-17.0	-3.3785	µg/L	-3.3785	ppb	14:03:02
1	S 181.975 Axial†	59.7	11.3	31.060	µg/L	31.060	ppb	14:03:02
1	Sb 206.836†	58.5	-1.4	-0.7505	µg/L	-0.7505	ppb	14:03:02
1	Se 196.026†	-45.9	1.3	2.6326	µg/L	2.6326	ppb	14:03:02
1	SiO2†	1598.9	514.8	60.824	µg/L	60.824	ppb	14:02:42
1	Si 251.611†	640.1	385.3	19.556	µg/L	19.556	ppb	14:03:02
1	Sn 189.927†	19.5	-2.3	-0.6932	µg/L	-0.6932	ppb	14:03:02
1	Ti 334.940†	-558.6	-109.4	-0.3053	µg/L	-0.3053	ppb	14:02:42
1	Tl 190.801†	-42.9	-19.5	-9.7826	µg/L	-9.7826	ppb	14:03:02
1	U 367.007†	536.4	34.0	11.31	µg/L	11.31	ppb	14:02:42
1	V 292.402†	67.9	-3.5	-0.0198	µg/L	-0.0198	ppb	14:02:42
1	Zn 213.857†	663.8	-3.7	-0.0567	µg/L	-0.0567	ppb	14:03:02
2	Sc RADIAL	6067.5	6067.5	94.3	%			14:01:50
2	Al 396.153Radial†	-183.4	-19.1	-20.066	µg/L	-20.066	ppb	14:01:50
2	Ca 317.933Radial†	35.8	-9.0	-8.6229	µg/L	-8.6229	ppb	14:02:10
2	Fe 238.204 Radial†	35.7	-2.1	-2.2684	µg/L	-2.2684	ppb	14:02:10
2	K 766.490 Radial†	727.6	109.9	95.512	µg/L	95.512	ppb	14:01:50
2	Mg 279.077 IEC†	7.7	-0.2	-1.3053	µg/L	-1.3053	ppb	14:02:10
2	Na 589.592 Radial†	-154.9	18.8	110.83	µg/L	110.83	ppb	14:01:50
2	Sr 421.552†	-837.0	-1.5	-0.0218	µg/L	-0.0218	ppb	14:01:50
2	Sc 361.383	531025.8	531025.8	93.677	%			14:03:07
2	Y 371.029	488354.1	488354.1	93.773	%			14:03:07
2	Ag 328.068†	-260.0	-30.7	-0.2101	µg/L	-0.2101	ppb	14:03:07
2	As 188.979†	-16.5	-5.2	-4.3343	µg/L	-4.3343	ppb	14:03:27
2	B 249.677†	275.6	68.2	2.2465	µg/L	2.2465	ppb	14:03:07
2	Ba 233.527†	-82.6	-34.0	-0.3603	µg/L	-0.3603	ppb	14:03:27
2	Be 313.107†	-5232.9	-77.8	-0.0439	µg/L	-0.0439	ppb	14:03:07
2	Cd 226.502†	-157.8	-10.0	-0.1613	µg/L	-0.1613	ppb	14:03:27
2	Co 228.616†	-95.7	13.2	0.3961	µg/L	0.3961	ppb	14:03:27
2	Cr 267.716†	78.7	3.0	0.0716	µg/L	0.0716	ppb	14:03:27
2	Cu 324.752†	2216.3	11.1	0.0515	µg/L	0.0515	ppb	14:03:07
2	Mn 257.610†	384.4	15.1	0.0248	µg/L	0.0248	ppb	14:03:07
2	Mo 202.031†	16.4	6.2	0.7381	µg/L	0.7381	ppb	14:03:27
2	Ni 231.604†	-84.8	22.8	0.8535	µg/L	0.8535	ppb	14:03:27
2	P 214.914†	75.3	26.1	24.626	µg/L	24.626	ppb	14:03:27
2	Pb 220.353†	189.1	31.1	6.1483	µg/L	6.1483	ppb	14:03:27

2	S 181.975 Axial†	52.1	3.4	9.3006	µg/L	9.3006	ppb	14:03:27
2	Sb 206.836†	55.6	-4.3	-2.2803	µg/L	-2.2803	ppb	14:03:27
2	Se 196.026†	-43.7	3.7	6.9049	µg/L	6.9049	ppb	14:03:27
2	SiO2†	1518.3	431.3	53.072	µg/L	53.072	ppb	14:03:07
2	Si 251.611†	604.9	348.8	18.934	µg/L	18.934	ppb	14:03:27
2	Sn 189.927†	24.4	3.0	0.9110	µg/L	0.9110	ppb	14:03:27
2	Ti 334.940†	-420.0	37.6	0.1077	µg/L	0.1077	ppb	14:03:07
2	Tl 190.801†	-32.4	-8.4	-4.1988	µg/L	-4.1988	ppb	14:03:27
2	U 367.007†	473.7	-32.0	-10.63	µg/L	-10.63	ppb	14:03:07
2	V 292.402†	95.2	25.7	0.2605	µg/L	0.2605	ppb	14:03:07
2	Zn 213.857†	688.2	23.5	0.3133	µg/L	0.3133	ppb	14:03:27
3	Sc RADIAL	6036.5	6036.5	93.8	%			14:02:15
3	Al 396.153Radial†	-176.3	-12.6	-13.196	µg/L	-13.196	ppb	14:02:15
3	Ca 317.933Radial†	41.7	-2.4	-2.3277	µg/L	-2.3277	ppb	14:02:35
3	Fe 238.204 Radial†	36.8	-0.8	-0.8698	µg/L	-0.8698	ppb	14:02:35
3	K 766.490 Radial†	759.7	148.1	128.69	µg/L	128.69	ppb	14:02:15
3	Mg 279.077 IEC†	7.5	-0.3	-2.6498	µg/L	-2.6498	ppb	14:02:35
3	Na 589.592 Radial†	-139.3	34.6	204.37	µg/L	204.37	ppb	14:02:15
3	Sr 421.552†	-845.1	-14.6	-0.2145	µg/L	-0.2145	ppb	14:02:15
3	Sc 361.383	533437.9	533437.9	94.103	%			14:03:33
3	Y 371.029	491674.7	491674.7	94.410	%			14:03:33
3	Ag 328.068†	-209.5	24.2	0.1704	µg/L	0.1704	ppb	14:03:33
3	As 188.979†	-19.3	-8.1	-6.7105	µg/L	-6.7105	ppb	14:03:53
3	B 249.677†	277.3	68.8	2.2499	µg/L	2.2499	ppb	14:03:33
3	Ba 233.527†	-64.9	-14.9	-0.1567	µg/L	-0.1567	ppb	14:03:53
3	Be 313.107†	-5268.4	-90.3	-0.0485	µg/L	-0.0485	ppb	14:03:33
3	Cd 226.502†	-162.5	-14.3	-0.2308	µg/L	-0.2308	ppb	14:03:53
3	Co 228.616†	-113.9	-5.7	-0.1693	µg/L	-0.1693	ppb	14:03:53
3	Cr 267.716†	78.5	2.4	0.0518	µg/L	0.0518	ppb	14:03:53
3	Cu 324.752†	2387.9	182.8	0.9620	µg/L	0.9620	ppb	14:03:33
3	Mn 257.610†	443.5	76.0	0.1254	µg/L	0.1254	ppb	14:03:33
3	Mo 202.031†	13.0	2.5	0.2964	µg/L	0.2964	ppb	14:03:53
3	Ni 231.604†	-124.1	-18.6	-0.6964	µg/L	-0.6964	ppb	14:03:53
3	P 214.914†	85.8	36.8	34.785	µg/L	34.785	ppb	14:03:53
3	Pb 220.353†	148.0	-13.5	-2.6549	µg/L	-2.6549	ppb	14:03:53
3	S 181.975 Axial†	56.6	7.9	21.732	µg/L	21.732	ppb	14:03:53
3	Sb 206.836†	70.7	11.4	6.0312	µg/L	6.0312	ppb	14:03:53
3	Se 196.026†	-45.6	1.8	3.4565	µg/L	3.4565	ppb	14:03:53
3	SiO2†	1522.3	428.3	52.006	µg/L	52.006	ppb	14:03:33
3	Si 251.611†	588.1	328.0	17.398	µg/L	17.398	ppb	14:03:53
3	Sn 189.927†	22.5	0.8	0.2413	µg/L	0.2413	ppb	14:03:53
3	Ti 334.940†	-438.0	20.5	0.0563	µg/L	0.0563	ppb	14:03:33
3	Tl 190.801†	-33.4	-9.3	-4.6370	µg/L	-4.6370	ppb	14:03:53
3	U 367.007†	503.8	-2.3	-0.760	µg/L	-0.760	ppb	14:03:33
3	V 292.402†	130.4	62.7	0.6376	µg/L	0.6376	ppb	14:03:33
3	Zn 213.857†	685.5	17.2	0.2378	µg/L	0.2378	ppb	14:03:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	532098.8	93.866	%	0.2166				0.23%
Sc RADIAL	6061.5	94.2	%	0.35				0.37%
Y 371.029	489982.3	94.085	%	0.3190				0.34%
Ag 328.068†	-31.3	-0.2137	µg/L	0.38587	-0.2137	ppb	0.38587	180.57%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-3.5	-3.7261	µg/L	22.61381	-3.7261	ppb	22.61381	606.91%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-7.2	-5.9949	µg/L	1.44267	-5.9949	ppb	1.44267	24.07%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	72.0	2.3443	µg/L	0.16647	2.3443	ppb	0.16647	7.10%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-28.0	-0.2968	µg/L	0.12144	-0.2968	ppb	0.12144	40.92%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-95.4	-0.0510	µg/L	0.00871	-0.0510	ppb	0.00871	17.06%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-2.2	-2.0926	µg/L	6.65096	-2.0926	ppb	6.65096	317.83%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-15.6	-0.2525	µg/L	0.10371	-0.2525	ppb	0.10371	41.08%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	5.4	0.1607	µg/L	0.29433	0.1607	ppb	0.29433	183.19%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                7.2      0.1561 µg/L       0.16379      0.1561 ppb        0.16379 104.92%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               68.2      0.3589 µg/L       0.52229      0.3589 ppb        0.52229 145.52%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.9     -0.9480 µg/L       1.28311     -0.9480 ppb        1.28311 135.35%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        175.8      152.76 µg/L        72.347      152.76 ppb         72.347  47.36%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            2.7      20.861 µg/L       39.5633      20.861 ppb        39.5633 189.65%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               27.0      0.0437 µg/L       0.07397      0.0437 ppb        0.07397 169.09%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                4.1      0.4885 µg/L       0.22637      0.4885 ppb        0.22637  46.34%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        30.9      182.88 µg/L        64.061      182.88 ppb         64.061  35.03%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                8.7      0.3245 µg/L       0.88436      0.3245 ppb        0.88436 272.49%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                24.6      23.202 µg/L       12.3562      23.202 ppb        12.3562  53.25%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                0.2      0.0383 µg/L       5.30375      0.0383 ppb        5.30375 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           7.6      20.698 µg/L       10.9167      20.698 ppb        10.9167  52.74%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                1.9      1.0001 µg/L       4.42366      1.0001 ppb        4.42366 442.30%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                2.3      4.3314 µg/L       2.26653      4.3314 ppb        2.26653  52.33%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    458.2      55.301 µg/L        4.8128      55.301 ppb         4.8128   8.70%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              354.0      18.629 µg/L        1.1111      18.629 ppb         1.1111   5.96%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                0.5      0.1530 µg/L       0.80574      0.1530 ppb        0.80574 526.59%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -21.4     -0.3149 µg/L       0.35416     -0.3149 ppb        0.35416 112.47%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -17.1     -0.0471 µg/L       0.22505     -0.0471 ppb        0.22505 477.91%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -12.4     -6.2061 µg/L       3.10509     -6.2061 ppb        3.10509  50.03%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -0.1      -0.027 µg/L       10.9877      -0.027 ppb        10.9877 >999.9%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                28.3      0.2928 µg/L       0.32991      0.2928 ppb        0.32991 112.68%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               12.3      0.1648 µg/L       0.19554      0.1648 ppb        0.19554 118.66%
   QC value within limits for Zn 213.857  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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Sequence No.: 12 **Autosampler Location: 310**
Sample ID: 335304015|1339675|1 **Date Collected: 11/5/2013 14:04:00**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304015|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6021.3	6021.3	93.6	%			14:04:37
1	Al 396.153Radial†	-129.7	36.7	34.051	µg/L	34.051	ppb	14:04:37
1	Ca 317.933Radial†	208090.2	222312.8	213970	µg/L	213970	ppb	14:04:32
1	Fe 238.204 Radial†	15278.8	16286.5	17506	µg/L	17506	ppb	14:04:37
1	K 766.490 Radial†	15137.2	15513.6	13398	µg/L	13398	ppb	14:04:37
1	Mg 279.077 IEC†	6984.8	7455.5	58533	µg/L	58533	ppb	14:04:37
1	Na 589.592 Radial†	24974.5	26870.2	158780	µg/L	158780	ppb	14:04:37
1	Sr 421.552†	47279.4	51407.6	754.25	µg/L	754.25	ppb	14:04:37
1	Sc 361.383	513327.0	513327.0	90.555	%			14:05:04
1	Y 371.029	453957.4	453957.4	87.168	%			14:05:04
1	Ag 328.068†	-875.6	-720.0	1.9502	µg/L	1.9502	ppb	14:05:04
1	As 188.979†	-1.4	10.8	10.601	µg/L	10.601	ppb	14:05:24
1	B 249.677†	23427.3	25644.9	853.52	µg/L	853.52	ppb	14:05:04
1	Ba 233.527†	111656.1	123356.4	1308.7	µg/L	1308.7	ppb	14:05:04
1	Be 313.107†	-9086.5	-4525.9	-0.1608	µg/L	-0.1608	ppb	14:05:04
1	Cd 226.502†	-56.8	95.7	-0.1801	µg/L	-0.1801	ppb	14:05:24
1	Co 228.616†	-73.1	34.6	1.8143	µg/L	1.8143	ppb	14:05:24
1	Cr 267.716†	9.9	-70.0	-0.0038	µg/L	-0.0038	ppb	14:05:24
1	Cu 324.752†	1788.4	-379.8	-1.1476	µg/L	-1.1476	ppb	14:05:04
1	Mn 257.610†	275510.2	303851.6	500.67	µg/L	500.67	ppb	14:05:04
1	Mo 202.031†	7.2	-3.3	0.3369	µg/L	0.3369	ppb	14:05:24
1	Ni 231.604†	124.4	250.7	9.8928	µg/L	9.8928	ppb	14:05:24
1	P 214.914†	546.7	549.4	505.30	µg/L	505.30	ppb	14:05:24
1	Pb 220.353†	56.1	-108.9	-6.8251	µg/L	-6.8251	ppb	14:05:24
1	S 181.975 Axial†	1747.1	1877.1	5136.8	µg/L	5136.8	ppb	14:05:24
1	Sb 206.836†	69.9	13.5	6.3000	µg/L	6.3000	ppb	14:05:24
1	Se 196.026†	-60.1	-16.0	-15.920	µg/L	-15.920	ppb	14:05:24
1	SiO2†	233591.0	256766.0	32641	µg/L	32641	ppb	14:05:04
1	Si 251.611†	241855.8	266785.3	15119	µg/L	15119	ppb	14:05:04
1	Sn 189.927†	-264.8	-315.5	-34.116	µg/L	-34.116	ppb	14:05:24
1	Ti 334.940†	-2890.0	-2705.5	0.3877	µg/L	0.3877	ppb	14:05:04
1	Tl 190.801†	-33.6	-10.9	-5.1008	µg/L	-5.1008	ppb	14:05:24
1	U 367.007†	835.2	384.6	-2.190	µg/L	-2.190	ppb	14:05:04
1	V 292.402†	84.6	17.6	0.3384	µg/L	0.3384	ppb	14:05:04
1	Zn 213.857†	962.2	351.3	0.9698	µg/L	0.9698	ppb	14:05:24
2	Sc RADIAL	6042.5	6042.5	93.9	%			14:04:47
2	Al 396.153Radial†	-121.9	45.5	43.200	µg/L	43.200	ppb	14:04:47
2	Ca 317.933Radial†	209429.2	222957.0	214590	µg/L	214590	ppb	14:04:42
2	Fe 238.204 Radial†	15361.2	16316.8	17538	µg/L	17538	ppb	14:04:47
2	K 766.490 Radial†	15283.5	15612.5	13484	µg/L	13484	ppb	14:04:47
2	Mg 279.077 IEC†	7022.2	7469.0	58639	µg/L	58639	ppb	14:04:47
2	Na 589.592 Radial†	25188.1	27003.8	159570	µg/L	159570	ppb	14:04:47
2	Sr 421.552†	47651.8	51626.7	757.46	µg/L	757.46	ppb	14:04:47
2	Sc 361.383	512379.4	512379.4	90.388	%			14:05:30
2	Y 371.029	453253.5	453253.5	87.033	%			14:05:30
2	Ag 328.068†	-1007.0	-867.3	0.9537	µg/L	0.9537	ppb	14:05:30
2	As 188.979†	-21.8	-11.7	-8.1012	µg/L	-8.1012	ppb	14:05:50
2	B 249.677†	23462.1	25731.2	856.38	µg/L	856.38	ppb	14:05:30
2	Ba 233.527†	111960.5	123921.1	1314.7	µg/L	1314.7	ppb	14:05:30
2	Be 313.107†	-9020.4	-4471.4	-0.1239	µg/L	-0.1239	ppb	14:05:30
2	Cd 226.502†	-60.0	92.0	-0.2425	µg/L	-0.2425	ppb	14:05:50
2	Co 228.616†	-76.1	31.2	1.7163	µg/L	1.7163	ppb	14:05:50
2	Cr 267.716†	2.5	-78.3	-0.1817	µg/L	-0.1817	ppb	14:05:50
2	Cu 324.752†	1912.9	-238.5	-0.3984	µg/L	-0.3984	ppb	14:05:30
2	Mn 257.610†	275827.1	304764.9	502.18	µg/L	502.18	ppb	14:05:30
2	Mo 202.031†	9.8	-0.4	0.6797	µg/L	0.6797	ppb	14:05:50
2	Ni 231.604†	128.6	255.6	10.078	µg/L	10.078	ppb	14:05:50
2	P 214.914†	553.2	557.7	513.11	µg/L	513.11	ppb	14:05:50
2	Pb 220.353†	48.5	-117.2	-8.4266	µg/L	-8.4266	ppb	14:05:50

2	S 181.975 Axial†	1742.0	1875.0	5130.9	µg/L	5130.9	ppb	14:05:50
2	Sb 206.836†	56.2	-1.5	-1.6033	µg/L	-1.6033	ppb	14:05:50
2	Se 196.026†	-63.6	-20.1	-23.560	µg/L	-23.560	ppb	14:05:50
2	SiO2†	233742.5	257410.7	32722	µg/L	32722	ppb	14:05:30
2	Si 251.611†	242096.3	267545.3	15161	µg/L	15161	ppb	14:05:30
2	Sn 189.927†	-259.0	-309.7	-32.133	µg/L	-32.133	ppb	14:05:50
2	Ti 334.940†	-3047.0	-2885.1	-0.0833	µg/L	-0.0833	ppb	14:05:30
2	Tl 190.801†	-39.2	-17.2	-8.2370	µg/L	-8.2370	ppb	14:05:50
2	U 367.007†	850.4	403.1	3.695	µg/L	3.695	ppb	14:05:30
2	V 292.402†	78.2	10.6	0.2771	µg/L	0.2771	ppb	14:05:30
2	Zn 213.857†	971.6	363.7	1.1277	µg/L	1.1277	ppb	14:05:50
3	Sc RADIAL	6012.1	6012.1	93.4	%			14:04:57
3	Al 396.153Radial†	-114.8	52.4	50.450	µg/L	50.450	ppb	14:04:57
3	Ca 317.933Radial†	210020.9	224717.5	216290	µg/L	216290	ppb	14:04:52
3	Fe 238.204 Radial†	15264.9	16296.5	17517	µg/L	17517	ppb	14:04:57
3	K 766.490 Radial†	15193.7	15598.7	13471	µg/L	13471	ppb	14:04:57
3	Mg 279.077 IEC†	7008.9	7492.6	58824	µg/L	58824	ppb	14:04:57
3	Na 589.592 Radial†	25310.2	27270.0	161140	µg/L	161140	ppb	14:04:57
3	Sr 421.552†	47633.0	51862.9	760.92	µg/L	760.92	ppb	14:04:57
3	Sc 361.383	516319.0	516319.0	91.083	%			14:05:55
3	Y 371.029	456638.7	456638.7	87.683	%			14:05:55
3	Ag 328.068†	-961.5	-808.7	1.3719	µg/L	1.3719	ppb	14:05:55
3	As 188.979†	-13.6	-2.6	-0.4880	µg/L	-0.4880	ppb	14:06:15
3	B 249.677†	23666.4	25757.5	857.27	µg/L	857.27	ppb	14:05:55
3	Ba 233.527†	112818.7	123918.2	1314.6	µg/L	1314.6	ppb	14:05:55
3	Be 313.107†	-9034.5	-4410.7	-0.0771	µg/L	-0.0771	ppb	14:05:55
3	Cd 226.502†	-70.6	80.9	-0.4202	µg/L	-0.4202	ppb	14:06:15
3	Co 228.616†	-68.2	40.5	1.9935	µg/L	1.9935	ppb	14:06:15
3	Cr 267.716†	15.3	-64.2	0.1354	µg/L	0.1354	ppb	14:06:15
3	Cu 324.752†	2027.9	-128.3	0.1713	µg/L	0.1713	ppb	14:05:55
3	Mn 257.610†	278171.3	305010.2	502.57	µg/L	502.57	ppb	14:05:55
3	Mo 202.031†	4.7	-6.1	0.0057	µg/L	0.0057	ppb	14:06:15
3	Ni 231.604†	109.3	233.3	9.2401	µg/L	9.2401	ppb	14:06:15
3	P 214.914†	551.9	551.6	507.36	µg/L	507.36	ppb	14:06:15
3	Pb 220.353†	57.9	-107.2	-6.3412	µg/L	-6.3412	ppb	14:06:15
3	S 181.975 Axial†	1762.0	1882.2	5150.7	µg/L	5150.7	ppb	14:06:15
3	Sb 206.836†	64.1	6.6	2.6772	µg/L	2.6772	ppb	14:06:15
3	Se 196.026†	-46.1	-0.3	14.052	µg/L	14.052	ppb	14:06:15
3	SiO2†	235680.6	257565.3	32742	µg/L	32742	ppb	14:05:55
3	Si 251.611†	244306.5	267928.3	15183	µg/L	15183	ppb	14:05:55
3	Sn 189.927†	-253.7	-301.6	-29.125	µg/L	-29.125	ppb	14:06:15
3	Ti 334.940†	-3031.2	-2842.0	0.1070	µg/L	0.1070	ppb	14:05:55
3	Tl 190.801†	-44.4	-22.5	-10.951	µg/L	-10.951	ppb	14:06:15
3	U 367.007†	810.6	352.2	-13.43	µg/L	-13.43	ppb	14:05:55
3	V 292.402†	140.0	77.8	0.9368	µg/L	0.9368	ppb	14:05:55
3	Zn 213.857†	956.0	338.4	0.7760	µg/L	0.7760	ppb	14:06:15

Mean Data: 335304015|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	514008.5	90.675	%	0.3627				0.40%
Sc RADIAL	6025.3	93.6	%	0.24				0.26%
Y 371.029	454616.5	87.295	%	0.3430				0.39%
Ag 328.068†	-798.7	1.4252	µg/L	0.50042	1.4252	ppb	0.50042	35.11%
Al 396.153Radial†	44.9	42.567	µg/L	8.2175	42.567	ppb	8.2175	19.30%
As 188.979†	-1.2	0.6707	µg/L	9.40484	0.6707	ppb	9.40484	>999.9%
B 249.677†	25711.2	855.72	µg/L	1.957	855.72	ppb	1.957	0.23%
Ba 233.527†	123731.9	1312.7	µg/L	3.45	1312.7	ppb	3.45	0.26%
Be 313.107†	-4469.3	-0.1206	µg/L	0.04191	-0.1206	ppb	0.04191	34.76%
Ca 317.933Radial†	223329.1	214950	µg/L	1198.1	214950	ppb	1198.1	0.56%
Cd 226.502†	89.6	-0.2809	µg/L	0.12456	-0.2809	ppb	0.12456	44.34%
Co 228.616†	35.4	1.8413	µg/L	0.14057	1.8413	ppb	0.14057	7.63%
Cr 267.716†	-70.8	-0.0167	µg/L	0.15894	-0.0167	ppb	0.15894	951.64%
Cu 324.752†	-248.9	-0.4582	µg/L	0.66146	-0.4582	ppb	0.66146	144.35%
Fe 238.204 Radial†	16299.9	17520	µg/L	16.6	17520	ppb	16.6	0.09%
K 766.490 Radial†	15574.9	13451	µg/L	46.2	13451	ppb	46.2	0.34%
Mg 279.077 IEC†	7472.4	58665	µg/L	147.6	58665	ppb	147.6	0.25%
Mn 257.610†	304542.2	501.81	µg/L	1.003	501.81	ppb	1.003	0.20%
Mo 202.031†	-3.3	0.3408	µg/L	0.33702	0.3408	ppb	0.33702	98.90%
Na 589.592 Radial†	27048.0	159830	µg/L	1202.8	159830	ppb	1202.8	0.75%

Ni 231.604†	246.5	9.7369	µg/L	0.44008	9.7369	ppb	0.44008	4.52%
P 214.914†	552.9	508.59	µg/L	4.046	508.59	ppb	4.046	0.80%
Pb 220.353†	-111.1	-7.1976	µg/L	1.09148	-7.1976	ppb	1.09148	15.16%
S 181.975 Axial†	1878.1	5139.5	µg/L	10.15	5139.5	ppb	10.15	0.20%
Sb 206.836†	6.2	2.4580	µg/L	3.95623	2.4580	ppb	3.95623	160.95%
Se 196.026†	-12.1	-8.4761	µg/L	19.88054	-8.4761	ppb	19.88054	234.55%
SiO2†	257247.3	32701	µg/L	53.4	32701	ppb	53.4	0.16%
Si 251.611†	267419.6	15154	µg/L	32.8	15154	ppb	32.8	0.22%
Sn 189.927†	-308.9	-31.791	µg/L	2.5132	-31.791	ppb	2.5132	7.91%
Sr 421.552†	51632.4	757.54	µg/L	3.340	757.54	ppb	3.340	0.44%
Ti 334.940†	-2810.8	0.1372	µg/L	0.23694	0.1372	ppb	0.23694	172.76%
Tl 190.801†	-16.9	-8.0964	µg/L	2.92786	-8.0964	ppb	2.92786	36.16%
U 367.007†	380.0	-3.974	µg/L	8.6985	-3.974	ppb	8.6985	218.91%
V 292.402†	35.3	0.5174	µg/L	0.36446	0.5174	ppb	0.36446	70.43%
Zn 213.857†	351.1	0.9578	µg/L	0.17615	0.9578	ppb	0.17615	18.39%

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Sequence No.: 13 **Autosampler Location: 311**
Sample ID: 335304016|1339675|1 **Date Collected: 11/5/2013 14:06:23**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304016|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5952.2	5952.2	92.5	%			14:06:56
1	Al 396.153Radial†	-141.1	22.8	19.415	µg/L	19.415	ppb	14:06:56
1	Ca 317.933Radial†	205955.6	222586.0	214230	µg/L	214230	ppb	14:06:51
1	Fe 238.204 Radial†	15177.0	16366.0	17591	µg/L	17591	ppb	14:06:56
1	K 766.490 Radial†	15167.4	15733.9	13588	µg/L	13588	ppb	14:06:56
1	Mg 279.077 IEC†	6990.0	7547.7	59256	µg/L	59256	ppb	14:06:56
1	Na 589.592 Radial†	25101.2	27316.8	161420	µg/L	161420	ppb	14:06:56
1	Sr 421.552†	46575.6	51233.2	751.68	µg/L	751.68	ppb	14:06:51
1	Sc 361.383	515135.3	515135.3	90.874	%			14:07:23
1	Y 371.029	455940.3	455940.3	87.549	%			14:07:23
1	Ag 328.068†	-1072.5	-933.3	0.5147	µg/L	0.5147	ppb	14:07:23
1	As 188.979†	-17.3	-6.6	-3.8249	µg/L	-3.8249	ppb	14:07:43
1	B 249.677†	23642.9	25791.3	858.34	µg/L	858.34	ppb	14:07:23
1	Ba 233.527†	112991.7	124393.3	1319.7	µg/L	1319.7	ppb	14:07:23
1	Be 313.107†	-8968.9	-4361.3	-0.0703	µg/L	-0.0703	ppb	14:07:23
1	Cd 226.502†	-59.4	93.1	-0.2312	µg/L	-0.2312	ppb	14:07:43
1	Co 228.616†	-63.2	45.8	2.1559	µg/L	2.1559	ppb	14:07:43
1	Cr 267.716†	31.1	-46.8	0.5182	µg/L	0.5182	ppb	14:07:43
1	Cu 324.752†	1771.7	-405.2	-1.2783	µg/L	-1.2783	ppb	14:07:23
1	Mn 257.610†	276603.1	303986.2	500.87	µg/L	500.87	ppb	14:07:23
1	Mo 202.031†	4.0	-6.9	-0.0875	µg/L	-0.0875	ppb	14:07:43
1	Ni 231.604†	107.2	231.2	9.1654	µg/L	9.1654	ppb	14:07:43
1	P 214.914†	548.0	548.6	504.50	µg/L	504.50	ppb	14:07:43
1	Pb 220.353†	56.7	-108.4	-6.7134	µg/L	-6.7134	ppb	14:07:43
1	S 181.975 Axial†	1744.5	1867.4	5110.3	µg/L	5110.3	ppb	14:07:43
1	Sb 206.836†	64.5	7.3	3.0149	µg/L	3.0149	ppb	14:07:43
1	Se 196.026†	-48.2	-2.8	9.4571	µg/L	9.4571	ppb	14:07:43
1	SiO2†	234909.4	257311.2	32706	µg/L	32706	ppb	14:07:23
1	Si 251.611†	243522.3	267681.7	15168	µg/L	15168	ppb	14:07:23
1	Sn 189.927†	-246.8	-294.6	-27.682	µg/L	-27.682	ppb	14:07:43
1	Ti 334.940†	-3094.1	-2918.9	-0.1913	µg/L	-0.1913	ppb	14:07:23
1	Tl 190.801†	-32.9	-10.0	-4.6643	µg/L	-4.6643	ppb	14:07:43
1	U 367.007†	831.7	377.6	-5.032	µg/L	-5.032	ppb	14:07:23
1	V 292.402†	137.0	74.9	0.9145	µg/L	0.9145	ppb	14:07:23
1	Zn 213.857†	939.5	322.6	0.5695	µg/L	0.5695	ppb	14:07:43
2	Sc RADIAL	5977.8	5977.8	92.9	%			14:07:06
2	Al 396.153Radial†	-185.8	-24.6	-30.170	µg/L	-30.170	ppb	14:07:06
2	Ca 317.933Radial†	207688.2	223497.4	215110	µg/L	215110	ppb	14:07:01
2	Fe 238.204 Radial†	15224.2	16346.5	17570	µg/L	17570	ppb	14:07:06
2	K 766.490 Radial†	15079.0	15568.5	13444	µg/L	13444	ppb	14:07:06
2	Mg 279.077 IEC†	6984.1	7509.0	58953	µg/L	58953	ppb	14:07:06
2	Na 589.592 Radial†	25461.4	27588.3	163020	µg/L	163020	ppb	14:07:06
2	Sr 421.552†	47046.6	51524.6	755.96	µg/L	755.96	ppb	14:07:01
2	Sc 361.383	514924.3	514924.3	90.837	%			14:07:49
2	Y 371.029	455485.1	455485.1	87.461	%			14:07:49
2	Ag 328.068†	-1023.6	-880.0	0.8839	µg/L	0.8839	ppb	14:07:49
2	As 188.979†	-14.4	-3.5	-1.2259	µg/L	-1.2259	ppb	14:08:09
2	B 249.677†	23545.0	25694.2	855.15	µg/L	855.15	ppb	14:07:49
2	Ba 233.527†	112642.8	124060.1	1316.1	µg/L	1316.1	ppb	14:07:49
2	Be 313.107†	-9072.0	-4478.9	-0.1200	µg/L	-0.1200	ppb	14:07:49
2	Cd 226.502†	-61.4	90.8	-0.2657	µg/L	-0.2657	ppb	14:08:09
2	Co 228.616†	-60.7	48.6	2.2385	µg/L	2.2385	ppb	14:08:09
2	Cr 267.716†	9.4	-70.6	-0.0125	µg/L	-0.0125	ppb	14:08:09
2	Cu 324.752†	1865.8	-300.8	-0.7180	µg/L	-0.7180	ppb	14:07:49
2	Mn 257.610†	275535.8	302936.0	499.15	µg/L	499.15	ppb	14:07:49
2	Mo 202.031†	8.8	-1.6	0.5432	µg/L	0.5432	ppb	14:08:09
2	Ni 231.604†	143.8	271.5	10.677	µg/L	10.677	ppb	14:08:09
2	P 214.914†	548.9	549.9	505.73	µg/L	505.73	ppb	14:08:09
2	Pb 220.353†	47.3	-118.7	-8.6597	µg/L	-8.6597	ppb	14:08:09

2	S 181.975 Axial†	1731.3	1853.7	5072.6	µg/L	5072.6	ppb	14:08:09
2	Sb 206.836†	67.0	10.1	4.5178	µg/L	4.5178	ppb	14:08:09
2	Se 196.026†	-51.0	-5.8	3.7204	µg/L	3.7204	ppb	14:08:09
2	SiO2†	234004.7	256421.1	32596	µg/L	32596	ppb	14:07:49
2	Si 251.611†	242748.0	266939.0	15127	µg/L	15127	ppb	14:07:49
2	Sn 189.927†	-246.4	-294.3	-27.292	µg/L	-27.292	ppb	14:08:09
2	Ti 334.940†	-3191.3	-3027.3	-0.4602	µg/L	-0.4602	ppb	14:07:49
2	Tl 190.801†	-33.4	-10.6	-4.9572	µg/L	-4.9572	ppb	14:08:09
2	U 367.007†	886.0	437.6	14.91	µg/L	14.91	ppb	14:07:49
2	V 292.402†	125.7	62.4	0.8106	µg/L	0.8106	ppb	14:07:49
2	Zn 213.857†	913.8	294.8	0.1777	µg/L	0.1777	ppb	14:08:09
3	Sc RADIAL	5990.0	5990.0	93.1	%			14:07:16
3	Al 396.153Radial†	-164.7	-1.5	-5.9857	µg/L	-5.9857	ppb	14:07:16
3	Ca 317.933Radial†	208585.7	224005.5	215600	µg/L	215600	ppb	14:07:11
3	Fe 238.204 Radial†	15212.9	16300.9	17521	µg/L	17521	ppb	14:07:16
3	K 766.490 Radial†	15143.9	15605.1	13477	µg/L	13477	ppb	14:07:16
3	Mg 279.077 IEC†	6964.7	7472.8	58669	µg/L	58669	ppb	14:07:16
3	Na 589.592 Radial†	25218.5	27271.5	161150	µg/L	161150	ppb	14:07:16
3	Sr 421.552†	47301.2	51694.7	758.46	µg/L	758.46	ppb	14:07:11
3	Sc 361.383	514303.9	514303.9	90.727	%			14:08:14
3	Y 371.029	455180.9	455180.9	87.403	%			14:08:14
3	Ag 328.068†	-1013.9	-870.6	0.9415	µg/L	0.9415	ppb	14:08:14
3	As 188.979†	-10.7	0.6	2.1585	µg/L	2.1585	ppb	14:08:34
3	B 249.677†	23564.0	25746.4	856.89	µg/L	856.89	ppb	14:08:14
3	Ba 233.527†	112175.3	123694.4	1312.3	µg/L	1312.3	ppb	14:08:14
3	Be 313.107†	-9008.2	-4420.6	-0.0886	µg/L	-0.0886	ppb	14:08:14
3	Cd 226.502†	-51.6	101.6	-0.0866	µg/L	-0.0866	ppb	14:08:34
3	Co 228.616†	-65.5	43.2	2.0731	µg/L	2.0731	ppb	14:08:34
3	Cr 267.716†	-5.1	-86.6	-0.3512	µg/L	-0.3512	ppb	14:08:34
3	Cu 324.752†	1690.2	-491.8	-1.7398	µg/L	-1.7398	ppb	14:08:14
3	Mn 257.610†	274956.7	302663.6	498.71	µg/L	498.71	ppb	14:08:14
3	Mo 202.031†	2.7	-8.3	-0.2582	µg/L	-0.2582	ppb	14:08:34
3	Ni 231.604†	101.2	224.8	8.9223	µg/L	8.9223	ppb	14:08:34
3	P 214.914†	557.2	559.8	515.11	µg/L	515.11	ppb	14:08:34
3	Pb 220.353†	59.2	-105.6	-6.0447	µg/L	-6.0447	ppb	14:08:34
3	S 181.975 Axial†	1721.5	1845.2	5049.3	µg/L	5049.3	ppb	14:08:34
3	Sb 206.836†	67.1	10.2	4.5847	µg/L	4.5847	ppb	14:08:34
3	Se 196.026†	-65.1	-21.4	-26.212	µg/L	-26.212	ppb	14:08:34
3	SiO2†	233875.4	256589.5	32616	µg/L	32616	ppb	14:08:14
3	Si 251.611†	242225.1	266685.0	15112	µg/L	15112	ppb	14:08:14
3	Sn 189.927†	-257.4	-306.7	-30.920	µg/L	-30.920	ppb	14:08:34
3	Ti 334.940†	-3254.9	-3101.6	-0.6313	µg/L	-0.6313	ppb	14:08:14
3	Tl 190.801†	-35.6	-13.0	-6.1808	µg/L	-6.1808	ppb	14:08:34
3	U 367.007†	821.2	367.4	-8.283	µg/L	-8.283	ppb	14:08:14
3	V 292.402†	145.3	84.3	1.0026	µg/L	1.0026	ppb	14:08:14
3	Zn 213.857†	931.9	315.9	0.4801	µg/L	0.4801	ppb	14:08:34

Mean Data: 335304016|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	514787.8	90.813	%	0.0762				0.08%
Sc RADIAL	5973.3	92.8	%	0.30				0.32%
Y 371.029	455535.4	87.471	%	0.0734				0.08%
Ag 328.068†	-894.6	0.7800	µg/L	0.23154	0.7800	ppb	0.23154	29.68%
Al 396.153Radial†	-1.1	-5.5802	µg/L	24.79480	-5.5802	ppb	24.79480	444.34%
As 188.979†	-3.1	-0.9641	µg/L	3.00028	-0.9641	ppb	3.00028	311.19%
B 249.677†	25744.0	856.80	µg/L	1.599	856.80	ppb	1.599	0.19%
Ba 233.527†	124049.3	1316.0	µg/L	3.71	1316.0	ppb	3.71	0.28%
Be 313.107†	-4420.3	-0.0930	µg/L	0.02514	-0.0930	ppb	0.02514	27.04%
Ca 317.933Radial†	223363.0	214980	µg/L	692.4	214980	ppb	692.4	0.32%
Cd 226.502†	95.1	-0.1945	µg/L	0.09504	-0.1945	ppb	0.09504	48.86%
Co 228.616†	45.9	2.1558	µg/L	0.08269	2.1558	ppb	0.08269	3.84%
Cr 267.716†	-68.0	0.0515	µg/L	0.43819	0.0515	ppb	0.43819	851.22%
Cu 324.752†	-399.3	-1.2453	µg/L	0.51169	-1.2453	ppb	0.51169	41.09%
Fe 238.204 Radial†	16337.8	17561	µg/L	35.9	17561	ppb	35.9	0.20%
K 766.490 Radial†	15635.9	13503	µg/L	75.8	13503	ppb	75.8	0.56%
Mg 279.077 IEC†	7509.8	58959	µg/L	293.8	58959	ppb	293.8	0.50%
Mn 257.610†	303195.3	499.58	µg/L	1.145	499.58	ppb	1.145	0.23%
Mo 202.031†	-5.6	0.0659	µg/L	0.42216	0.0659	ppb	0.42216	641.09%
Na 589.592 Radial†	27392.2	161860	µg/L	1012.4	161860	ppb	1012.4	0.63%

Ni 231.604†	242.5	9.5884	µg/L	0.95088	9.5884	ppb	0.95088	9.92%
P 214.914†	552.8	508.45	µg/L	5.801	508.45	ppb	5.801	1.14%
Pb 220.353†	-110.9	-7.1393	µg/L	1.35849	-7.1393	ppb	1.35849	19.03%
S 181.975 Axial†	1855.4	5077.4	µg/L	30.76	5077.4	ppb	30.76	0.61%
Sb 206.836†	9.2	4.0391	µg/L	0.88763	4.0391	ppb	0.88763	21.98%
Se 196.026†	-10.0	-4.3448	µg/L	19.15348	-4.3448	ppb	19.15348	440.84%
SiO2†	256773.9	32640	µg/L	58.9	32640	ppb	58.9	0.18%
Si 251.611†	267101.9	15135	µg/L	28.9	15135	ppb	28.9	0.19%
Sn 189.927†	-298.6	-28.631	µg/L	1.9917	-28.631	ppb	1.9917	6.96%
Sr 421.552†	51484.2	755.37	µg/L	3.426	755.37	ppb	3.426	0.45%
Ti 334.940†	-3015.9	-0.4276	µg/L	0.22182	-0.4276	ppb	0.22182	51.88%
Tl 190.801†	-11.2	-5.2675	µg/L	0.80445	-5.2675	ppb	0.80445	15.27%
U 367.007†	394.2	0.531	µg/L	12.5571	0.531	ppb	12.5571	>999.9%
V 292.402†	73.9	0.9093	µg/L	0.09609	0.9093	ppb	0.09609	10.57%
Zn 213.857†	311.1	0.4091	µg/L	0.20533	0.4091	ppb	0.20533	50.19%

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Sequence No.: 14 **Autosampler Location: 312**
Sample ID: 335304017|1339675|1 **Date Collected: 11/5/2013 14:08:42**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304017|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5939.4	5939.4	92.3	%			14:09:15
1	Al 396.153Radial†	-131.1	33.3	26.371	µg/L	26.371	ppb	14:09:15
1	Ca 317.933Radial†	236865.5	256549.6	246920	µg/L	246920	ppb	14:09:10
1	Fe 238.204 Radial†	28920.1	31289.2	33632	µg/L	33632	ppb	14:09:15
1	K 766.490 Radial†	22450.4	23658.9	20439	µg/L	20439	ppb	14:09:15
1	Mg 279.077 IEC†	8266.8	8947.2	70244	µg/L	70244	ppb	14:09:15
1	Na 589.592 Radial†	37362.2	40657.5	240250	µg/L	240250	ppb	14:09:15
1	Sr 421.552†	62615.4	68717.5	1008.4	µg/L	1008.4	ppb	14:09:10
1	Sc 361.383	508476.1	508476.1	89.699	%			14:09:42
1	Y 371.029	450228.4	450228.4	86.452	%			14:09:42
1	Ag 328.068†	-1579.4	-1513.9	1.1502	µg/L	1.1502	ppb	14:09:42
1	As 188.979†	8.3	21.6	21.100	µg/L	21.100	ppb	14:10:02
1	B 249.677†	38291.6	42463.0	1413.7	µg/L	1413.7	ppb	14:09:42
1	Ba 233.527†	123646.9	137900.5	1462.7	µg/L	1462.7	ppb	14:09:42
1	Be 313.107†	-9415.7	-4988.7	-0.0464	µg/L	-0.0464	ppb	14:09:42
1	Cd 226.502†	57.8	222.8	0.2808	µg/L	0.2808	ppb	14:10:02
1	Co 228.616†	-38.2	72.8	2.9863	µg/L	2.9863	ppb	14:10:02
1	Cr 267.716†	5.4	-75.0	0.1294	µg/L	0.1294	ppb	14:10:02
1	Cu 324.752†	1763.8	-388.4	-0.4265	µg/L	-0.4265	ppb	14:09:42
1	Mn 257.610†	567035.3	631757.6	1042.6	µg/L	1042.6	ppb	14:09:42
1	Mo 202.031†	11.6	1.6	1.5917	µg/L	1.5917	ppb	14:10:02
1	Ni 231.604†	89.5	213.0	8.9288	µg/L	8.9288	ppb	14:10:02
1	P 214.914†	787.2	823.3	751.20	µg/L	751.20	ppb	14:10:02
1	Pb 220.353†	34.8	-132.0	-9.1662	µg/L	-9.1662	ppb	14:10:02
1	S 181.975 Axial†	471.4	473.2	1292.6	µg/L	1292.6	ppb	14:10:02
1	Sb 206.836†	63.9	7.5	2.6362	µg/L	2.6362	ppb	14:10:02
1	Se 196.026†	-75.5	-33.9	-38.667	µg/L	-38.667	ppb	14:10:02
1	SiO2†	262251.7	291178.9	36897	µg/L	36897	ppb	14:09:42
1	Si 251.611†	271965.7	302900.9	17111	µg/L	17111	ppb	14:09:42
1	Sn 189.927†	-266.3	-319.9	-27.526	µg/L	-27.526	ppb	14:10:02
1	Ti 334.940†	-3433.5	-3341.8	-0.2079	µg/L	-0.2079	ppb	14:09:42
1	Tl 190.801†	-32.5	-10.0	-4.2921	µg/L	-4.2921	ppb	14:10:02
1	U 367.007†	1060.6	644.7	-5.587	µg/L	-5.587	ppb	14:09:42
1	V 292.402†	61.0	-7.9	0.2135	µg/L	0.2135	ppb	14:09:42
1	Zn 213.857†	1233.7	664.1	3.4325	µg/L	3.4325	ppb	14:10:02
2	Sc RADIAL	6009.5	6009.5	93.4	%			14:09:25
2	Al 396.153Radial†	-126.0	40.4	33.929	µg/L	33.929	ppb	14:09:25
2	Ca 317.933Radial†	235967.5	252594.4	243120	µg/L	243120	ppb	14:09:20
2	Fe 238.204 Radial†	28868.2	30868.1	33179	µg/L	33179	ppb	14:09:25
2	K 766.490 Radial†	22607.2	23543.0	20339	µg/L	20339	ppb	14:09:25
2	Mg 279.077 IEC†	8246.4	8820.8	69251	µg/L	69251	ppb	14:09:25
2	Na 589.592 Radial†	37580.0	40418.5	238830	µg/L	238830	ppb	14:09:25
2	Sr 421.552†	62622.2	67933.3	996.90	µg/L	996.90	ppb	14:09:20
2	Sc 361.383	506062.7	506062.7	89.273	%			14:10:08
2	Y 371.029	448645.4	448645.4	86.148	%			14:10:08
2	Ag 328.068†	-1559.6	-1500.2	1.0916	µg/L	1.0916	ppb	14:10:08
2	As 188.979†	11.1	24.8	23.664	µg/L	23.664	ppb	14:10:28
2	B 249.677†	38002.4	42342.6	1409.7	µg/L	1409.7	ppb	14:10:08
2	Ba 233.527†	122745.9	137548.6	1459.0	µg/L	1459.0	ppb	14:10:08
2	Be 313.107†	-9417.6	-5040.8	-0.1127	µg/L	-0.1127	ppb	14:10:08
2	Cd 226.502†	33.0	195.3	-0.1197	µg/L	-0.1197	ppb	14:10:28
2	Co 228.616†	-67.2	40.1	2.0110	µg/L	2.0110	ppb	14:10:28
2	Cr 267.716†	-37.8	-123.3	-0.9472	µg/L	-0.9472	ppb	14:10:28
2	Cu 324.752†	1702.3	-448.0	-0.7568	µg/L	-0.7568	ppb	14:10:08
2	Mn 257.610†	563388.2	630686.9	1040.8	µg/L	1040.8	ppb	14:10:08
2	Mo 202.031†	23.1	14.6	3.1066	µg/L	3.1066	ppb	14:10:28
2	Ni 231.604†	70.8	192.6	8.1506	µg/L	8.1506	ppb	14:10:28
2	P 214.914†	794.4	835.5	763.09	µg/L	763.09	ppb	14:10:28
2	Pb 220.353†	41.3	-124.6	-7.9581	µg/L	-7.9581	ppb	14:10:28

2	S 181.975 Axial†	468.8	472.9	1291.6	µg/L	1291.6	ppb	14:10:28
2	Sb 206.836†	60.8	4.4	1.0211	µg/L	1.0211	ppb	14:10:28
2	Se 196.026†	-53.8	-10.0	6.5114	µg/L	6.5114	ppb	14:10:28
2	SiO2†	260607.8	290731.8	36842	µg/L	36842	ppb	14:10:08
2	Si 251.611†	270201.0	302370.2	17082	µg/L	17082	ppb	14:10:08
2	Sn 189.927†	-256.5	-310.4	-25.701	µg/L	-25.701	ppb	14:10:28
2	Ti 334.940†	-3452.5	-3381.4	-0.4592	µg/L	-0.4592	ppb	14:10:08
2	Tl 190.801†	-35.1	-13.1	-5.8338	µg/L	-5.8338	ppb	14:10:28
2	U 367.007†	1075.8	667.4	5.027	µg/L	5.027	ppb	14:10:08
2	V 292.402†	162.6	106.3	1.3886	µg/L	1.3886	ppb	14:10:08
2	Zn 213.857†	1227.7	664.0	3.5144	µg/L	3.5144	ppb	14:10:28
3	Sc RADIAL	5920.8	5920.8	92.0	%			14:09:36
3	Al 396.153Radial†	-124.3	40.3	33.732	µg/L	33.732	ppb	14:09:36
3	Ca 317.933Radial†	237457.6	258000.9	248320	µg/L	248320	ppb	14:09:31
3	Fe 238.204 Radial†	28692.2	31140.1	33471	µg/L	33471	ppb	14:09:36
3	K 766.490 Radial†	22560.9	23855.5	20609	µg/L	20609	ppb	14:09:36
3	Mg 279.077 IEC†	8203.8	8906.8	69927	µg/L	69927	ppb	14:09:36
3	Na 589.592 Radial†	37478.6	40911.4	241750	µg/L	241750	ppb	14:09:36
3	Sr 421.552†	63110.3	69468.8	1019.4	µg/L	1019.4	ppb	14:09:31
3	Sc 361.383	507531.8	507531.8	89.532	%			14:10:33
3	Y 371.029	450059.3	450059.3	86.419	%			14:10:33
3	Ag 328.068†	-1504.7	-1433.7	1.6692	µg/L	1.6692	ppb	14:10:33
3	As 188.979†	2.0	14.6	15.290	µg/L	15.290	ppb	14:10:53
3	B 249.677†	37995.7	42211.9	1405.2	µg/L	1405.2	ppb	14:10:33
3	Ba 233.527†	122513.8	136891.4	1452.0	µg/L	1452.0	ppb	14:10:33
3	Be 313.107†	-9310.7	-4890.9	0.0166	µg/L	0.0166	ppb	14:10:33
3	Cd 226.502†	34.1	196.5	-0.1301	µg/L	-0.1301	ppb	14:10:53
3	Co 228.616†	-68.1	39.3	1.9792	µg/L	1.9792	ppb	14:10:53
3	Cr 267.716†	-29.2	-113.6	-0.6956	µg/L	-0.6956	ppb	14:10:53
3	Cu 324.752†	1761.4	-387.5	-0.4402	µg/L	-0.4402	ppb	14:10:33
3	Mn 257.610†	562224.6	627560.6	1035.6	µg/L	1035.6	ppb	14:10:33
3	Mo 202.031†	16.0	6.6	2.1746	µg/L	2.1746	ppb	14:10:53
3	Ni 231.604†	85.4	208.7	8.7616	µg/L	8.7616	ppb	14:10:53
3	P 214.914†	786.5	824.1	752.05	µg/L	752.05	ppb	14:10:53
3	Pb 220.353†	48.6	-116.6	-6.0086	µg/L	-6.0086	ppb	14:10:53
3	S 181.975 Axial†	472.3	475.3	1298.1	µg/L	1298.1	ppb	14:10:53
3	Sb 206.836†	66.9	11.0	4.4740	µg/L	4.4740	ppb	14:10:53
3	Se 196.026†	-56.9	-13.2	0.4076	µg/L	0.4076	ppb	14:10:53
3	SiO2†	259840.1	289029.3	36617	µg/L	36617	ppb	14:10:33
3	Si 251.611†	269514.0	300726.8	16985	µg/L	16985	ppb	14:10:33
3	Sn 189.927†	-261.1	-314.8	-25.463	µg/L	-25.463	ppb	14:10:53
3	Ti 334.940†	-3309.4	-3210.4	0.2180	µg/L	0.2180	ppb	14:10:33
3	Tl 190.801†	-40.9	-19.5	-9.0609	µg/L	-9.0609	ppb	14:10:53
3	U 367.007†	1008.8	589.0	-23.54	µg/L	-23.54	ppb	14:10:33
3	V 292.402†	16.5	-57.5	-0.3006	µg/L	-0.3006	ppb	14:10:33
3	Zn 213.857†	1238.9	672.5	3.5532	µg/L	3.5532	ppb	14:10:53

Mean Data: 335304017|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	507356.9	89.502	%	0.2145				0.24%
Sc RADIAL	5956.6	92.6	%	0.73				0.79%
Y 371.029	449644.4	86.340	%	0.1669				0.19%
Ag 328.068†	-1482.6	1.3037	µg/L	0.31791	1.3037	ppb	0.31791	24.39%
Al 396.153Radial†	38.0	31.344	µg/L	4.3078	31.344	ppb	4.3078	13.74%
As 188.979†	20.3	20.018	µg/L	4.2906	20.018	ppb	4.2906	21.43%
B 249.677†	42339.2	1409.5	µg/L	4.25	1409.5	ppb	4.25	0.30%
Ba 233.527†	137446.9	1457.9	µg/L	5.43	1457.9	ppb	5.43	0.37%
Be 313.107†	-4973.5	-0.0475	µg/L	0.06464	-0.0475	ppb	0.06464	136.07%
Ca 317.933Radial†	255715.0	246120	µg/L	2693.3	246120	ppb	2693.3	1.09%
Cd 226.502†	204.9	0.0103	µg/L	0.23429	0.0103	ppb	0.23429	>999.9%
Co 228.616†	50.7	2.3255	µg/L	0.57249	2.3255	ppb	0.57249	24.62%
Cr 267.716†	-104.0	-0.5045	µg/L	0.56320	-0.5045	ppb	0.56320	111.65%
Cu 324.752†	-408.0	-0.5412	µg/L	0.18687	-0.5412	ppb	0.18687	34.53%
Fe 238.204 Radial†	31099.1	33427	µg/L	229.5	33427	ppb	229.5	0.69%
K 766.490 Radial†	23685.8	20462	µg/L	136.7	20462	ppb	136.7	0.67%
Mg 279.077 IEC†	8891.6	69807	µg/L	506.8	69807	ppb	506.8	0.73%
Mn 257.610†	630001.7	1039.7	µg/L	3.60	1039.7	ppb	3.60	0.35%
Mo 202.031†	7.6	2.2910	µg/L	0.76413	2.2910	ppb	0.76413	33.35%
Na 589.592 Radial†	40662.5	240280	µg/L	1456.7	240280	ppb	1456.7	0.61%

Ni 231.604†	204.7	8.6137	µg/L	0.40967	8.6137	ppb	0.40967	4.76%
P 214.914†	827.6	755.45	µg/L	6.636	755.45	ppb	6.636	0.88%
Pb 220.353†	-124.4	-7.7109	µg/L	1.59323	-7.7109	ppb	1.59323	20.66%
S 181.975 Axial†	473.8	1294.1	µg/L	3.51	1294.1	ppb	3.51	0.27%
Sb 206.836†	7.6	2.7104	µg/L	1.72766	2.7104	ppb	1.72766	63.74%
Se 196.026†	-19.0	-10.583	µg/L	24.5127	-10.583	ppb	24.5127	231.63%
SiO2†	290313.3	36785	µg/L	148.3	36785	ppb	148.3	0.40%
Si 251.611†	301999.3	17060	µg/L	66.0	17060	ppb	66.0	0.39%
Sn 189.927†	-315.0	-26.230	µg/L	1.1285	-26.230	ppb	1.1285	4.30%
Sr 421.552†	68706.5	1008.2	µg/L	11.27	1008.2	ppb	11.27	1.12%
Ti 334.940†	-3311.2	-0.1497	µg/L	0.34236	-0.1497	ppb	0.34236	228.70%
Tl 190.801†	-14.2	-6.3956	µg/L	2.43354	-6.3956	ppb	2.43354	38.05%
U 367.007†	633.7	-8.034	µg/L	14.4407	-8.034	ppb	14.4407	179.75%
V 292.402†	13.6	0.4339	µg/L	0.86587	0.4339	ppb	0.86587	199.58%
Zn 213.857†	666.9	3.5000	µg/L	0.06158	3.5000	ppb	0.06158	1.76%

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Sequence No.: 15 **Autosampler Location: 313**
Sample ID: 335304018|1339675|1 **Date Collected: 11/5/2013 14:11:01**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304018|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5883.3	5883.3	91.4	%			14:11:34
1	Al 396.153Radial†	-141.4	20.7	13.205	µg/L	13.205	ppb	14:11:34
1	Ca 317.933Radial†	241509.4	264076.6	254170	µg/L	254170	ppb	14:11:29
1	Fe 238.204 Radial†	28427.6	31049.4	33374	µg/L	33374	ppb	14:11:34
1	K 766.490 Radial†	22993.3	24484.7	21153	µg/L	21153	ppb	14:11:34
1	Mg 279.077 IEC†	8325.1	9096.3	71414	µg/L	71414	ppb	14:11:34
1	Na 589.592 Radial†	38049.2	41795.0	246970	µg/L	246970	ppb	14:11:34
1	Sr 421.552†	64390.2	71305.6	1046.4	µg/L	1046.4	ppb	14:11:29
1	Sc 361.383	505646.7	505646.7	89.200	%			14:12:01
1	Y 371.029	448084.5	448084.5	86.040	%			14:12:01
1	Ag 328.068†	-1600.9	-1547.9	0.9232	µg/L	0.9232	ppb	14:12:01
1	As 188.979†	19.8	34.6	31.826	µg/L	31.826	ppb	14:12:21
1	B 249.677†	39020.5	43519.0	1448.8	µg/L	1448.8	ppb	14:12:01
1	Ba 233.527†	124186.8	139277.1	1477.3	µg/L	1477.3	ppb	14:12:01
1	Be 313.107†	-9588.2	-5240.8	-0.1075	µg/L	-0.1075	ppb	14:12:01
1	Cd 226.502†	47.6	211.8	0.1281	µg/L	0.1281	ppb	14:12:21
1	Co 228.616†	-58.2	50.2	2.3249	µg/L	2.3249	ppb	14:12:21
1	Cr 267.716†	-36.2	-121.6	-0.8608	µg/L	-0.8608	ppb	14:12:21
1	Cu 324.752†	1710.9	-436.8	-0.6987	µg/L	-0.6987	ppb	14:12:01
1	Mn 257.610†	577488.7	647013.9	1067.7	µg/L	1067.7	ppb	14:12:01
1	Mo 202.031†	23.0	14.5	3.0999	µg/L	3.0999	ppb	14:12:21
1	Ni 231.604†	83.0	206.3	8.6701	µg/L	8.6701	ppb	14:12:21
1	P 214.914†	774.2	813.6	742.25	µg/L	742.25	ppb	14:12:21
1	Pb 220.353†	43.4	-122.2	-6.7002	µg/L	-6.7002	ppb	14:12:21
1	S 181.975 Axial†	481.8	487.8	1332.3	µg/L	1332.3	ppb	14:12:21
1	Sb 206.836†	60.1	3.7	0.6576	µg/L	0.6576	ppb	14:12:21
1	Se 196.026†	-46.6	-2.0	21.842	µg/L	21.842	ppb	14:12:21
1	SiO2†	265100.8	296009.0	37500	µg/L	37500	ppb	14:12:01
1	Si 251.611†	274943.1	307935.4	17392	µg/L	17392	ppb	14:12:01
1	Sn 189.927†	-260.9	-315.6	-23.948	µg/L	-23.948	ppb	14:12:21
1	Ti 334.940†	-3725.2	-3690.3	-0.8847	µg/L	-0.8847	ppb	14:12:01
1	Tl 190.801†	-38.9	-17.4	-7.9807	µg/L	-7.9807	ppb	14:12:21
1	U 367.007†	1033.1	620.5	-13.57	µg/L	-13.57	ppb	14:12:01
1	V 292.402†	65.1	-2.9	0.2721	µg/L	0.2721	ppb	14:12:01
1	Zn 213.857†	1052.4	468.6	0.7331	µg/L	0.7331	ppb	14:12:21
2	Sc RADIAL	5896.4	5896.4	91.6	%			14:11:44
2	Al 396.153Radial†	-141.2	21.2	13.844	µg/L	13.844	ppb	14:11:44
2	Ca 317.933Radial†	239670.7	261481.0	251670	µg/L	251670	ppb	14:11:39
2	Fe 238.204 Radial†	28297.5	30838.2	33147	µg/L	33147	ppb	14:11:44
2	K 766.490 Radial†	22969.9	24403.0	21081	µg/L	21081	ppb	14:11:44
2	Mg 279.077 IEC†	8302.0	9050.9	71058	µg/L	71058	ppb	14:11:44
2	Na 589.592 Radial†	38435.7	42124.0	248910	µg/L	248910	ppb	14:11:44
2	Sr 421.552†	64128.9	70863.4	1039.9	µg/L	1039.9	ppb	14:11:39
2	Sc 361.383	505232.2	505232.2	89.127	%			14:12:27
2	Y 371.029	447729.9	447729.9	85.972	%			14:12:27
2	Ag 328.068†	-1544.9	-1486.5	1.2596	µg/L	1.2596	ppb	14:12:27
2	As 188.979†	8.2	21.6	21.014	µg/L	21.014	ppb	14:12:47
2	B 249.677†	38865.0	43380.4	1444.2	µg/L	1444.2	ppb	14:12:27
2	Ba 233.527†	123595.2	138727.6	1471.5	µg/L	1471.5	ppb	14:12:27
2	Be 313.107†	-9520.6	-5173.8	-0.0946	µg/L	-0.0946	ppb	14:12:27
2	Cd 226.502†	31.7	194.0	-0.1387	µg/L	-0.1387	ppb	14:12:47
2	Co 228.616†	-59.1	49.1	2.2886	µg/L	2.2886	ppb	14:12:47
2	Cr 267.716†	-11.5	-93.9	-0.2855	µg/L	-0.2855	ppb	14:12:47
2	Cu 324.752†	1665.3	-486.3	-0.9612	µg/L	-0.9612	ppb	14:12:27
2	Mn 257.610†	574278.3	643943.0	1062.6	µg/L	1062.6	ppb	14:12:27
2	Mo 202.031†	26.2	18.0	3.5148	µg/L	3.5148	ppb	14:12:47
2	Ni 231.604†	55.0	175.0	7.4897	µg/L	7.4897	ppb	14:12:47
2	P 214.914†	767.7	807.0	736.12	µg/L	736.12	ppb	14:12:47
2	Pb 220.353†	31.6	-135.4	-9.4842	µg/L	-9.4842	ppb	14:12:47

2	S 181.975 Axial†	476.1	481.9	1316.2	µg/L	1316.2	ppb	14:12:47
2	Sb 206.836†	59.6	3.2	0.3907	µg/L	0.3907	ppb	14:12:47
2	Se 196.026†	-53.8	-10.1	6.3567	µg/L	6.3567	ppb	14:12:47
2	SiO2†	263617.6	294588.6	37319	µg/L	37319	ppb	14:12:27
2	Si 251.611†	273299.9	306344.7	17301	µg/L	17301	ppb	14:12:27
2	Sn 189.927†	-251.3	-305.1	-21.468	µg/L	-21.468	ppb	14:12:47
2	Ti 334.940†	-3672.3	-3634.3	-0.8328	µg/L	-0.8328	ppb	14:12:27
2	Tl 190.801†	-31.7	-9.3	-3.9401	µg/L	-3.9401	ppb	14:12:47
2	U 367.007†	1070.9	663.9	2.499	µg/L	2.499	ppb	14:12:27
2	V 292.402†	89.0	23.9	0.5607	µg/L	0.5607	ppb	14:12:27
2	Zn 213.857†	1077.3	497.5	1.1763	µg/L	1.1763	ppb	14:12:47
3	Sc RADIAL	5909.4	5909.4	91.8	%			14:11:55
3	Al 396.153Radial†	-161.2	-0.2	-8.4886	µg/L	-8.4886	ppb	14:11:55
3	Ca 317.933Radial†	238752.7	259908.1	250160	µg/L	250160	ppb	14:11:50
3	Fe 238.204 Radial†	28354.7	30832.7	33141	µg/L	33141	ppb	14:11:55
3	K 766.490 Radial†	23044.7	24429.5	21107	µg/L	21107	ppb	14:11:55
3	Mg 279.077 IEC†	8305.9	9035.2	70935	µg/L	70935	ppb	14:11:55
3	Na 589.592 Radial†	37665.6	41193.5	243410	µg/L	243410	ppb	14:11:55
3	Sr 421.552†	63992.9	70561.9	1035.5	µg/L	1035.5	ppb	14:11:50
3	Sc 361.383	504702.5	504702.5	89.033	%			14:12:52
3	Y 371.029	445650.3	445650.3	85.573	%			14:12:52
3	Ag 328.068†	-1607.7	-1558.9	0.7470	µg/L	0.7470	ppb	14:12:52
3	As 188.979†	0.7	13.2	14.080	µg/L	14.080	ppb	14:13:12
3	B 249.677†	39159.6	43757.1	1456.9	µg/L	1456.9	ppb	14:12:52
3	Ba 233.527†	124914.0	140354.3	1488.7	µg/L	1488.7	ppb	14:12:52
3	Be 313.107†	-9557.4	-5226.4	-0.1389	µg/L	-0.1389	ppb	14:12:52
3	Cd 226.502†	28.6	190.5	-0.1932	µg/L	-0.1932	ppb	14:13:12
3	Co 228.616†	-61.7	46.1	2.2099	µg/L	2.2099	ppb	14:13:12
3	Cr 267.716†	-22.5	-106.2	-0.5614	µg/L	-0.5614	ppb	14:13:12
3	Cu 324.752†	1753.3	-385.6	-0.4311	µg/L	-0.4311	ppb	14:12:52
3	Mn 257.610†	579482.0	650463.9	1073.4	µg/L	1073.4	ppb	14:12:52
3	Mo 202.031†	19.8	11.0	2.6806	µg/L	2.6806	ppb	14:13:12
3	Ni 231.604†	91.4	215.9	9.0248	µg/L	9.0248	ppb	14:13:12
3	P 214.914†	767.0	807.1	736.30	µg/L	736.30	ppb	14:13:12
3	Pb 220.353†	53.5	-110.7	-4.7049	µg/L	-4.7049	ppb	14:13:12
3	S 181.975 Axial†	474.7	480.9	1313.5	µg/L	1313.5	ppb	14:13:12
3	Sb 206.836†	70.3	15.2	6.7599	µg/L	6.7599	ppb	14:13:12
3	Se 196.026†	-61.8	-19.1	-10.803	µg/L	-10.803	ppb	14:13:12
3	SiO2†	265793.6	297343.0	37672	µg/L	37672	ppb	14:12:52
3	Si 251.611†	275801.5	309476.2	17480	µg/L	17480	ppb	14:12:52
3	Sn 189.927†	-256.6	-311.3	-23.834	µg/L	-23.834	ppb	14:13:12
3	Ti 334.940†	-3791.0	-3772.0	-1.2669	µg/L	-1.2669	ppb	14:12:52
3	Tl 190.801†	-37.4	-15.8	-7.1639	µg/L	-7.1639	ppb	14:13:12
3	U 367.007†	1066.4	660.1	1.565	µg/L	1.565	ppb	14:12:52
3	V 292.402†	108.5	46.0	0.7729	µg/L	0.7729	ppb	14:12:52
3	Zn 213.857†	1084.3	506.7	1.3041	µg/L	1.3041	ppb	14:13:12

Mean Data: 335304018|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	505193.8	89.120	%	0.0835				0.09%
Sc RADIAL	5896.4	91.6	%	0.20				0.22%
Y 371.029	447154.9	85.862	%	0.2525				0.29%
Ag 328.068†	-1531.1	0.9766	µg/L	0.26042	0.9766	ppb	0.26042	26.67%
Al 396.153Radial†	13.9	6.1868	µg/L	12.71323	6.1868	ppb	12.71323	205.49%
As 188.979†	23.1	22.307	µg/L	8.9433	22.307	ppb	8.9433	40.09%
B 249.677†	43552.1	1450.0	µg/L	6.40	1450.0	ppb	6.40	0.44%
Ba 233.527†	139453.0	1479.2	µg/L	8.78	1479.2	ppb	8.78	0.59%
Be 313.107†	-5213.7	-0.1137	µg/L	0.02277	-0.1137	ppb	0.02277	20.03%
Ca 317.933Radial†	261821.9	252000	µg/L	2026.2	252000	ppb	2026.2	0.80%
Cd 226.502†	198.8	-0.0679	µg/L	0.17195	-0.0679	ppb	0.17195	253.24%
Co 228.616†	48.4	2.2745	µg/L	0.05879	2.2745	ppb	0.05879	2.58%
Cr 267.716†	-107.2	-0.5692	µg/L	0.28771	-0.5692	ppb	0.28771	50.54%
Cu 324.752†	-436.2	-0.6970	µg/L	0.26502	-0.6970	ppb	0.26502	38.02%
Fe 238.204 Radial†	30906.8	33221	µg/L	132.8	33221	ppb	132.8	0.40%
K 766.490 Radial†	24439.1	21114	µg/L	36.4	21114	ppb	36.4	0.17%
Mg 279.077 IEC†	9060.8	71136	µg/L	249.1	71136	ppb	249.1	0.35%
Mn 257.610†	647140.2	1067.9	µg/L	5.38	1067.9	ppb	5.38	0.50%
Mo 202.031†	14.5	3.0984	µg/L	0.41712	3.0984	ppb	0.41712	13.46%
Na 589.592 Radial†	41704.2	246430	µg/L	2788.1	246430	ppb	2788.1	1.13%

Ni 231.604†	199.1	8.3948	µg/L	0.80371	8.3948	ppb	0.80371	9.57%
P 214.914†	809.2	738.23	µg/L	3.489	738.23	ppb	3.489	0.47%
Pb 220.353†	-122.7	-6.9631	µg/L	2.40047	-6.9631	ppb	2.40047	34.47%
S 181.975 Axial†	483.6	1320.7	µg/L	10.15	1320.7	ppb	10.15	0.77%
Sb 206.836†	7.4	2.6027	µg/L	3.60271	2.6027	ppb	3.60271	138.42%
Se 196.026†	-10.4	5.7986	µg/L	16.32951	5.7986	ppb	16.32951	281.61%
SiO2†	295980.2	37497	µg/L	176.4	37497	ppb	176.4	0.47%
Si 251.611†	307918.8	17391	µg/L	89.5	17391	ppb	89.5	0.51%
Sn 189.927†	-310.7	-23.083	µg/L	1.4000	-23.083	ppb	1.4000	6.07%
Sr 421.552†	70910.3	1040.6	µg/L	5.49	1040.6	ppb	5.49	0.53%
Ti 334.940†	-3698.9	-0.9948	µg/L	0.23709	-0.9948	ppb	0.23709	23.83%
Tl 190.801†	-14.2	-6.3615	µg/L	2.13645	-6.3615	ppb	2.13645	33.58%
U 367.007†	648.2	-3.170	µg/L	9.0213	-3.170	ppb	9.0213	284.62%
V 292.402†	22.3	0.5352	µg/L	0.25141	0.5352	ppb	0.25141	46.97%
Zn 213.857†	490.9	1.0712	µg/L	0.29967	1.0712	ppb	0.29967	27.98%

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Sequence No.: 16 **Autosampler Location: 314**
Sample ID: 335304019|1339675|1 **Date Collected: 11/5/2013 14:13:20**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304019|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6035.4	6035.4	93.8	%			14:13:53
1	Al 396.153Radial†	2036.6	2346.5	2434.7	µg/L	2434.7	ppb	14:13:53
1	Ca 317.933Radial†	294474.6	313883.1	302110	µg/L	302110	ppb	14:13:48
1	Fe 238.204 Radial†	62712.8	66816.1	71818	µg/L	71818	ppb	14:13:53
1	K 766.490 Radial†	9819.0	9806.0	8431.7	µg/L	8431.7	ppb	14:13:53
1	Mg 279.077 IEC†	9183.9	9782.4	76801	µg/L	76801	ppb	14:13:53
1	Na 589.592 Radial†	26464.5	28396.0	167790	µg/L	167790	ppb	14:13:53
1	Sr 421.552†	46035.7	49963.3	732.60	µg/L	732.60	ppb	14:13:53
1	Sc 361.383	511425.9	511425.9	90.219	%			14:14:21
1	Y 371.029	467598.8	467598.8	89.787	%			14:14:21
1	Ag 328.068†	-3000.0	-3078.4	1.2888	µg/L	1.2888	ppb	14:14:21
1	As 188.979†	26.4	41.7	41.381	µg/L	41.381	ppb	14:14:41
1	B 249.677†	7094.0	7637.1	245.58	µg/L	245.58	ppb	14:14:21
1	Ba 233.527†	148030.8	164132.7	1740.3	µg/L	1740.3	ppb	14:14:21
1	Be 313.107†	-9206.7	-4696.4	0.7285	µg/L	0.7285	ppb	14:14:21
1	Cd 226.502†	306.4	498.0	0.9658	µg/L	0.9658	ppb	14:14:41
1	Co 228.616†	357.3	511.4	16.049	µg/L	16.049	ppb	14:14:41
1	Cr 267.716†	190.5	130.2	4.9810	µg/L	4.9810	ppb	14:14:41
1	Cu 324.752†	2595.6	522.1	6.1845	µg/L	6.1845	ppb	14:14:21
1	Mn 257.610†	978137.7	1083780.9	1791.3	µg/L	1791.3	ppb	14:14:21
1	Mo 202.031†	-6.8	-18.8	0.7604	µg/L	0.7604	ppb	14:14:41
1	Ni 231.604†	737.2	930.4	36.901	µg/L	36.901	ppb	14:14:41
1	P 214.914†	2035.7	2202.1	2024.5	µg/L	2024.5	ppb	14:14:41
1	Pb 220.353†	123.4	-34.0	12.789	µg/L	12.789	ppb	14:14:41
1	S 181.975 Axial†	4878.1	5354.6	14667	µg/L	14667	ppb	14:14:41
1	Sb 206.836†	58.6	1.2	-2.2315	µg/L	-2.2315	ppb	14:14:41
1	Se 196.026†	-74.9	-32.7	-10.792	µg/L	-10.792	ppb	14:14:41
1	SiO2†	339446.0	375055.4	47941	µg/L	47941	ppb	14:14:21
1	Si 251.611†	351691.5	389520.9	22200	µg/L	22200	ppb	14:14:21
1	Sn 189.927†	-276.5	-329.6	-17.650	µg/L	-17.650	ppb	14:14:41
1	Ti 334.940†	3559.3	4431.1	23.065	µg/L	23.065	ppb	14:14:21
1	Tl 190.801†	-40.6	-18.8	-8.0675	µg/L	-8.0675	ppb	14:14:41
1	U 367.007†	1608.8	1245.5	-14.97	µg/L	-14.97	ppb	14:14:21
1	V 292.402†	1413.3	1490.6	15.648	µg/L	15.648	ppb	14:14:21
1	Zn 213.857†	6481.7	6473.2	78.284	µg/L	78.284	ppb	14:14:41
2	Sc RADIAL	5962.9	5962.9	92.7	%			14:14:03
2	Al 396.153Radial†	2086.2	2426.3	2518.1	µg/L	2518.1	ppb	14:14:03
2	Ca 317.933Radial†	293141.9	316260.7	304400	µg/L	304400	ppb	14:13:58
2	Fe 238.204 Radial†	62360.2	67248.3	72283	µg/L	72283	ppb	14:14:03
2	K 766.490 Radial†	9872.8	9991.4	8591.7	µg/L	8591.7	ppb	14:14:03
2	Mg 279.077 IEC†	9138.7	9852.6	77352	µg/L	77352	ppb	14:14:03
2	Na 589.592 Radial†	26520.5	28799.4	170180	µg/L	170180	ppb	14:14:03
2	Sr 421.552†	45826.5	50334.1	738.03	µg/L	738.03	ppb	14:14:03
2	Sc 361.383	509741.0	509741.0	89.922	%			14:14:47
2	Y 371.029	465732.0	465732.0	89.429	%			14:14:47
2	Ag 328.068†	-3133.0	-3237.2	0.3377	µg/L	0.3377	ppb	14:14:47
2	As 188.979†	25.0	40.2	40.205	µg/L	40.205	ppb	14:15:07
2	B 249.677†	6990.5	7548.0	242.47	µg/L	242.47	ppb	14:14:47
2	Ba 233.527†	147426.3	164002.8	1738.9	µg/L	1738.9	ppb	14:14:47
2	Be 313.107†	-9391.6	-4935.8	0.6280	µg/L	0.6280	ppb	14:14:47
2	Cd 226.502†	266.9	455.2	0.2287	µg/L	0.2287	ppb	14:15:07
2	Co 228.616†	352.4	507.3	15.919	µg/L	15.919	ppb	14:15:07
2	Cr 267.716†	210.7	153.4	5.4950	µg/L	5.4950	ppb	14:15:07
2	Cu 324.752†	2673.1	617.8	6.7208	µg/L	6.7208	ppb	14:14:47
2	Mn 257.610†	973845.6	1082591.4	1789.3	µg/L	1789.3	ppb	14:14:47
2	Mo 202.031†	-17.5	-30.8	-0.6348	µg/L	-0.6348	ppb	14:15:07
2	Ni 231.604†	743.6	940.2	37.283	µg/L	37.283	ppb	14:15:07
2	P 214.914†	2015.0	2186.5	2009.4	µg/L	2009.4	ppb	14:15:07
2	Pb 220.353†	115.9	-41.9	11.325	µg/L	11.325	ppb	14:15:07

2	S 181.975 Axial†	4872.2	5366.0	14698	µg/L	14698	ppb	14:15:07
2	Sb 206.836†	63.3	6.6	0.6044	µg/L	0.6044	ppb	14:15:07
2	Se 196.026†	-66.9	-24.1	6.0057	µg/L	6.0057	ppb	14:15:07
2	SiO2†	337747.7	374410.4	47854	µg/L	47854	ppb	14:14:47
2	Si 251.611†	350118.0	389059.6	22172	µg/L	22172	ppb	14:14:47
2	Sn 189.927†	-270.7	-324.2	-15.352	µg/L	-15.352	ppb	14:15:07
2	Ti 334.940†	3633.7	4526.9	23.403	µg/L	23.403	ppb	14:14:47
2	Tl 190.801†	-40.6	-19.0	-8.1273	µg/L	-8.1273	ppb	14:15:07
2	U 367.007†	1651.3	1298.7	-0.130	µg/L	-0.130	ppb	14:14:47
2	V 292.402†	1298.0	1367.6	14.403	µg/L	14.403	ppb	14:14:47
2	Zn 213.857†	6440.8	6451.4	77.921	µg/L	77.921	ppb	14:15:07
3	Sc RADIAL	5959.8	5959.8	92.6	%			14:14:14
3	Al 396.153Radial†	2108.5	2451.7	2544.5	µg/L	2544.5	ppb	14:14:14
3	Ca 317.933Radial†	296711.8	320283.4	308270	µg/L	308270	ppb	14:14:08
3	Fe 238.204 Radial†	62380.3	67305.8	72345	µg/L	72345	ppb	14:14:14
3	K 766.490 Radial†	9821.1	9941.2	8546.3	µg/L	8546.3	ppb	14:14:14
3	Mg 279.077 IEC†	9140.3	9859.6	77407	µg/L	77407	ppb	14:14:14
3	Na 589.592 Radial†	27092.1	29431.7	173910	µg/L	173910	ppb	14:14:14
3	Sr 421.552†	45903.5	50443.6	739.62	µg/L	739.62	ppb	14:14:14
3	Sc 361.383	509684.7	509684.7	89.912	%			14:15:12
3	Y 371.029	467122.2	467122.2	89.696	%			14:15:12
3	Ag 328.068†	-3007.9	-3098.5	1.3533	µg/L	1.3533	ppb	14:15:12
3	As 188.979†	26.9	42.3	41.974	µg/L	41.974	ppb	14:15:33
3	B 249.677†	6957.9	7512.6	241.29	µg/L	241.29	ppb	14:15:12
3	Ba 233.527†	147609.1	164224.3	1741.2	µg/L	1741.2	ppb	14:15:12
3	Be 313.107†	-9091.5	-4603.2	0.8444	µg/L	0.8444	ppb	14:15:12
3	Cd 226.502†	291.0	482.0	0.6557	µg/L	0.6557	ppb	14:15:33
3	Co 228.616†	361.6	517.5	16.222	µg/L	16.222	ppb	14:15:33
3	Cr 267.716†	208.4	150.8	5.4477	µg/L	5.4477	ppb	14:15:33
3	Cu 324.752†	2596.9	533.4	6.2717	µg/L	6.2717	ppb	14:15:12
3	Mn 257.610†	975036.4	1084035.4	1791.7	µg/L	1791.7	ppb	14:15:12
3	Mo 202.031†	-6.3	-18.3	0.8439	µg/L	0.8439	ppb	14:15:33
3	Ni 231.604†	743.6	940.4	37.291	µg/L	37.291	ppb	14:15:33
3	P 214.914†	2020.7	2193.0	2015.6	µg/L	2015.6	ppb	14:15:33
3	Pb 220.353†	108.4	-50.2	9.9647	µg/L	9.9647	ppb	14:15:33
3	S 181.975 Axial†	4850.0	5341.9	14632	µg/L	14632	ppb	14:15:33
3	Sb 206.836†	69.8	13.9	4.4362	µg/L	4.4362	ppb	14:15:33
3	Se 196.026†	-76.5	-34.8	-14.325	µg/L	-14.325	ppb	14:15:33
3	SiO2†	338121.8	374867.9	47914	µg/L	47914	ppb	14:15:12
3	Si 251.611†	350311.2	389317.5	22187	µg/L	22187	ppb	14:15:12
3	Sn 189.927†	-280.7	-335.3	-17.537	µg/L	-17.537	ppb	14:15:33
3	Ti 334.940†	4521.3	5514.5	26.261	µg/L	26.261	ppb	14:15:12
3	Tl 190.801†	-39.5	-17.8	-7.5151	µg/L	-7.5151	ppb	14:15:33
3	U 367.007†	1623.4	1267.9	-11.39	µg/L	-11.39	ppb	14:15:12
3	V 292.402†	1389.2	1469.1	15.437	µg/L	15.437	ppb	14:15:12
3	Zn 213.857†	6442.1	6453.7	77.918	µg/L	77.918	ppb	14:15:33

Mean Data: 335304019|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	510283.9	90.018	%	0.1745				0.19%
Sc RADIAL	5986.0	93.0	%	0.67				0.71%
Y 371.029	466817.7	89.637	%	0.1862				0.21%
Ag 328.068†	-3138.0	0.9933	µg/L	0.56867	0.9933	ppb	0.56867	57.25%
Al 396.153Radial†	2408.2	2499.1	µg/L	57.31	2499.1	ppb	57.31	2.29%
As 188.979†	41.4	41.186	µg/L	0.9000	41.186	ppb	0.9000	2.19%
B 249.677†	7565.9	243.12	µg/L	2.217	243.12	ppb	2.217	0.91%
Ba 233.527†	164119.9	1740.1	µg/L	1.18	1740.1	ppb	1.18	0.07%
Be 313.107†	-4745.2	0.7336	µg/L	0.10826	0.7336	ppb	0.10826	14.76%
Ca 317.933Radial†	316809.1	304920	µg/L	3114.0	304920	ppb	3114.0	1.02%
Cd 226.502†	478.4	0.6168	µg/L	0.37009	0.6168	ppb	0.37009	60.01%
Co 228.616†	512.1	16.063	µg/L	0.1521	16.063	ppb	0.1521	0.95%
Cr 267.716†	144.8	5.3079	µg/L	0.28410	5.3079	ppb	0.28410	5.35%
Cu 324.752†	557.8	6.3923	µg/L	0.28776	6.3923	ppb	0.28776	4.50%
Fe 238.204 Radial†	67123.4	72149	µg/L	287.7	72149	ppb	287.7	0.40%
K 766.490 Radial†	9912.9	8523.2	µg/L	82.43	8523.2	ppb	82.43	0.97%
Mg 279.077 IEC†	9831.5	77187	µg/L	335.3	77187	ppb	335.3	0.43%
Mn 257.610†	1083469.2	1790.8	µg/L	1.27	1790.8	ppb	1.27	0.07%
Mo 202.031†	-22.7	0.3232	µg/L	0.83067	0.3232	ppb	0.83067	257.03%
Na 589.592 Radial†	28875.7	170630	µg/L	3084.9	170630	ppb	3084.9	1.81%

Ni 231.604†	937.0	37.158	µg/L	0.2228	37.158	ppb	0.2228	0.60%
P 214.914†	2193.9	2016.5	µg/L	7.58	2016.5	ppb	7.58	0.38%
Pb 220.353†	-42.0	11.360	µg/L	1.4127	11.360	ppb	1.4127	12.44%
S 181.975 Axial†	5354.2	14666	µg/L	33.1	14666	ppb	33.1	0.23%
Sb 206.836†	7.2	0.9364	µg/L	3.34622	0.9364	ppb	3.34622	357.36%
Se 196.026†	-30.5	-6.3701	µg/L	10.86240	-6.3701	ppb	10.86240	170.52%
SiO2†	374777.9	47903	µg/L	44.2	47903	ppb	44.2	0.09%
Si 251.611†	389299.3	22186	µg/L	14.0	22186	ppb	14.0	0.06%
Sn 189.927†	-329.7	-16.847	µg/L	1.2956	-16.847	ppb	1.2956	7.69%
Sr 421.552†	50247.0	736.75	µg/L	3.684	736.75	ppb	3.684	0.50%
Ti 334.940†	4824.2	24.243	µg/L	1.7558	24.243	ppb	1.7558	7.24%
Tl 190.801†	-18.5	-7.9033	µg/L	0.33752	-7.9033	ppb	0.33752	4.27%
U 367.007†	1270.7	-8.828	µg/L	7.7425	-8.828	ppb	7.7425	87.70%
V 292.402†	1442.5	15.163	µg/L	0.6665	15.163	ppb	0.6665	4.40%
Zn 213.857†	6459.4	78.041	µg/L	0.2102	78.041	ppb	0.2102	0.27%

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Sequence No.: 17 **Autosampler Location: 315**
Sample ID: 335304020|1339675|1 **Date Collected: 11/5/2013 14:15:40**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304020|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5837.0	5837.0	90.7	%			14:16:13
1	Al 396.153Radial†	-103.5	61.2	50.753	µg/L	50.753	ppb	14:16:13
1	Ca 317.933Radial†	238862.1	263253.3	253380	µg/L	253380	ppb	14:16:08
1	Fe 238.204 Radial†	45191.5	49775.1	53501	µg/L	53501	ppb	14:16:13
1	K 766.490 Radial†	9892.4	10242.8	8804.7	µg/L	8804.7	ppb	14:16:13
1	Mg 279.077 IEC†	7645.8	8419.7	66103	µg/L	66103	ppb	14:16:13
1	Na 589.592 Radial†	28189.6	31256.8	184700	µg/L	184700	ppb	14:16:13
1	Sr 421.552†	42384.4	47606.9	698.21	µg/L	698.21	ppb	14:16:13
1	Sc 361.383	507458.3	507458.3	89.520	%			14:16:40
1	Y 371.029	449497.0	449497.0	86.311	%			14:16:40
1	Ag 328.068†	-2257.9	-2275.4	1.3015	µg/L	1.3015	ppb	14:16:40
1	As 188.979†	24.2	39.4	37.699	µg/L	37.699	ppb	14:17:00
1	B 249.677†	7127.0	7735.4	250.50	µg/L	250.50	ppb	14:16:40
1	Ba 233.527†	126758.8	141653.2	1502.1	µg/L	1502.1	ppb	14:16:40
1	Be 313.107†	-9502.1	-5106.3	-0.0236	µg/L	-0.0236	ppb	14:16:40
1	Cd 226.502†	140.0	314.8	-0.1975	µg/L	-0.1975	ppb	14:17:00
1	Co 228.616†	-52.9	56.2	2.4249	µg/L	2.4249	ppb	14:17:00
1	Cr 267.716†	-58.5	-146.3	-0.9952	µg/L	-0.9952	ppb	14:17:00
1	Cu 324.752†	1515.8	-661.5	-0.9290	µg/L	-0.9290	ppb	14:16:40
1	Mn 257.610†	521854.8	582555.5	963.23	µg/L	963.23	ppb	14:16:40
1	Mo 202.031†	0.4	-10.8	0.9468	µg/L	0.9468	ppb	14:17:00
1	Ni 231.604†	8.8	123.1	6.1117	µg/L	6.1117	ppb	14:17:00
1	P 214.914†	390.1	381.4	317.34	µg/L	317.34	ppb	14:17:00
1	Pb 220.353†	15.2	-153.8	-13.019	µg/L	-13.019	ppb	14:17:00
1	S 181.975 Axial†	4931.0	5456.0	14944	µg/L	14944	ppb	14:17:00
1	Sb 206.836†	70.2	14.7	5.7619	µg/L	5.7619	ppb	14:17:00
1	Se 196.026†	-67.6	-25.2	-9.5547	µg/L	-9.5547	ppb	14:17:00
1	SiO2†	293568.8	326748.9	41731	µg/L	41731	ppb	14:16:40
1	Si 251.611†	304444.7	339790.6	19349	µg/L	19349	ppb	14:16:40
1	Sn 189.927†	-256.8	-309.9	-24.471	µg/L	-24.471	ppb	14:17:00
1	Ti 334.940†	-3637.7	-3577.6	-0.6083	µg/L	-0.6083	ppb	14:16:40
1	Tl 190.801†	-32.3	-9.9	-4.1967	µg/L	-4.1967	ppb	14:17:00
1	U 367.007†	1301.5	916.1	-20.89	µg/L	-20.89	ppb	14:16:40
1	V 292.402†	61.9	-6.8	0.3446	µg/L	0.3446	ppb	14:16:40
1	Zn 213.857†	1303.7	745.1	2.7652	µg/L	2.7652	ppb	14:17:00
2	Sc RADIAL	5881.2	5881.2	91.4	%			14:16:23
2	Al 396.153Radial†	-89.2	77.7	68.031	µg/L	68.031	ppb	14:16:23
2	Ca 317.933Radial†	242274.1	265006.1	255060	µg/L	255060	ppb	14:16:18
2	Fe 238.204 Radial†	45462.0	49696.4	53417	µg/L	53417	ppb	14:16:23
2	K 766.490 Radial†	9873.2	10139.9	8715.7	µg/L	8715.7	ppb	14:16:23
2	Mg 279.077 IEC†	7639.1	8349.0	65547	µg/L	65547	ppb	14:16:23
2	Na 589.592 Radial†	28224.3	31061.1	183540	µg/L	183540	ppb	14:16:23
2	Sr 421.552†	42494.9	47376.5	694.82	µg/L	694.82	ppb	14:16:23
2	Sc 361.383	506564.8	506564.8	89.362	%			14:17:06
2	Y 371.029	449424.6	449424.6	86.298	%			14:17:06
2	Ag 328.068†	-2195.2	-2209.7	1.7540	µg/L	1.7540	ppb	14:17:06
2	As 188.979†	30.7	46.8	43.835	µg/L	43.835	ppb	14:17:26
2	B 249.677†	7074.7	7691.0	249.06	µg/L	249.06	ppb	14:17:06
2	Ba 233.527†	126980.4	142150.9	1507.4	µg/L	1507.4	ppb	14:17:06
2	Be 313.107†	-9544.2	-5172.1	-0.0374	µg/L	-0.0374	ppb	14:17:06
2	Cd 226.502†	141.3	316.5	-0.1631	µg/L	-0.1631	ppb	14:17:26
2	Co 228.616†	-63.2	44.7	2.0834	µg/L	2.0834	ppb	14:17:26
2	Cr 267.716†	-52.7	-139.9	-0.8879	µg/L	-0.8879	ppb	14:17:26
2	Cu 324.752†	1654.1	-503.7	-0.0910	µg/L	-0.0910	ppb	14:17:06
2	Mn 257.610†	522819.2	584663.0	966.72	µg/L	966.72	ppb	14:17:06
2	Mo 202.031†	1.8	-9.3	1.1222	µg/L	1.1222	ppb	14:17:26
2	Ni 231.604†	-27.2	82.8	4.5974	µg/L	4.5974	ppb	14:17:26
2	P 214.914†	385.9	377.5	313.73	µg/L	313.73	ppb	14:17:26
2	Pb 220.353†	39.1	-127.1	-7.6277	µg/L	-7.6277	ppb	14:17:26

2	S 181.975 Axial†	4900.2	5431.3	14876	µg/L	14876	ppb	14:17:26
2	Sb 206.836†	72.3	17.2	7.1185	µg/L	7.1185	ppb	14:17:26
2	Se 196.026†	-53.0	-9.0	21.357	µg/L	21.357	ppb	14:17:26
2	SiO2†	294291.3	328135.8	41911	µg/L	41911	ppb	14:17:06
2	Si 251.611†	305311.1	341360.0	19440	µg/L	19440	ppb	14:17:06
2	Sn 189.927†	-258.2	-312.0	-24.522	µg/L	-24.522	ppb	14:17:26
2	Ti 334.940†	-3509.0	-3440.7	-0.1720	µg/L	-0.1720	ppb	14:17:06
2	Tl 190.801†	-35.3	-13.4	-5.9255	µg/L	-5.9255	ppb	14:17:26
2	U 367.007†	1348.2	971.0	-2.506	µg/L	-2.506	ppb	14:17:06
2	V 292.402†	150.2	92.2	1.3638	µg/L	1.3638	ppb	14:17:06
2	Zn 213.857†	1294.7	737.6	2.6725	µg/L	2.6725	ppb	14:17:26
3	Sc RADIAL	5871.2	5871.2	91.2	%			14:16:34
3	Al 396.153Radial†	-134.7	27.7	15.811	µg/L	15.811	ppb	14:16:34
3	Ca 317.933Radial†	242140.2	265313.6	255360	µg/L	255360	ppb	14:16:28
3	Fe 238.204 Radial†	45076.7	49359.4	53055	µg/L	53055	ppb	14:16:34
3	K 766.490 Radial†	9799.9	10078.1	8661.4	µg/L	8661.4	ppb	14:16:34
3	Mg 279.077 IEC†	7586.9	8306.1	65211	µg/L	65211	ppb	14:16:34
3	Na 589.592 Radial†	28374.6	31278.7	184830	µg/L	184830	ppb	14:16:34
3	Sr 421.552†	42318.9	47263.2	693.15	µg/L	693.15	ppb	14:16:34
3	Sc 361.383	502903.1	502903.1	88.716	%			14:17:31
3	Y 371.029	445996.1	445996.1	85.639	%			14:17:31
3	Ag 328.068†	-2180.9	-2211.5	1.6488	µg/L	1.6488	ppb	14:17:31
3	As 188.979†	26.4	42.1	39.922	µg/L	39.922	ppb	14:17:51
3	B 249.677†	7067.6	7740.6	250.78	µg/L	250.78	ppb	14:17:31
3	Ba 233.527†	125910.2	141979.2	1505.6	µg/L	1505.6	ppb	14:17:31
3	Be 313.107†	-9547.3	-5253.4	-0.0771	µg/L	-0.0771	ppb	14:17:31
3	Cd 226.502†	149.2	326.6	0.0358	µg/L	0.0358	ppb	14:17:51
3	Co 228.616†	-55.8	52.5	2.3169	µg/L	2.3169	ppb	14:17:51
3	Cr 267.716†	-38.0	-123.8	-0.5618	µg/L	-0.5618	ppb	14:17:51
3	Cu 324.752†	1566.8	-588.7	-0.5526	µg/L	-0.5526	ppb	14:17:31
3	Mn 257.610†	518832.9	584429.5	966.32	µg/L	966.32	ppb	14:17:31
3	Mo 202.031†	4.3	-6.4	1.4505	µg/L	1.4505	ppb	14:17:51
3	Ni 231.604†	-12.2	99.5	5.2113	µg/L	5.2113	ppb	14:17:51
3	P 214.914†	417.5	416.2	350.63	µg/L	350.63	ppb	14:17:51
3	Pb 220.353†	42.0	-123.4	-6.8546	µg/L	-6.8546	ppb	14:17:51
3	S 181.975 Axial†	4919.1	5492.5	15044	µg/L	15044	ppb	14:17:51
3	Sb 206.836†	49.8	-7.6	-6.0050	µg/L	-6.0050	ppb	14:17:51
3	Se 196.026†	-69.3	-27.8	-14.634	µg/L	-14.634	ppb	14:17:51
3	SiO2†	291970.7	327917.9	41884	µg/L	41884	ppb	14:17:31
3	Si 251.611†	302452.6	340625.5	19398	µg/L	19398	ppb	14:17:31
3	Sn 189.927†	-254.6	-310.1	-23.770	µg/L	-23.770	ppb	14:17:51
3	Ti 334.940†	-3517.0	-3478.4	-0.2624	µg/L	-0.2624	ppb	14:17:31
3	Tl 190.801†	-46.3	-26.0	-12.273	µg/L	-12.273	ppb	14:17:51
3	U 367.007†	1347.0	980.6	2.557	µg/L	2.557	ppb	14:17:31
3	V 292.402†	159.0	103.4	1.4828	µg/L	1.4828	ppb	14:17:31
3	Zn 213.857†	1285.0	737.2	2.6960	µg/L	2.6960	ppb	14:17:51

Mean Data: 335304020|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	505642.0	89.199	%	0.4258				0.48%
Sc RADIAL	5863.1	91.1	%	0.36				0.40%
Y 371.029	448305.9	86.083	%	0.3842				0.45%
Ag 328.068†	-2232.2	1.5681	µg/L	0.23680	1.5681	ppb	0.23680	15.10%
Al 396.153Radial†	55.6	44.865	µg/L	26.6030	44.865	ppb	26.6030	59.30%
As 188.979†	42.7	40.485	µg/L	3.1063	40.485	ppb	3.1063	7.67%
B 249.677†	7722.3	250.11	µg/L	0.926	250.11	ppb	0.926	0.37%
Ba 233.527†	141927.8	1505.0	µg/L	2.69	1505.0	ppb	2.69	0.18%
Be 313.107†	-5177.2	-0.0460	µg/L	0.02777	-0.0460	ppb	0.02777	60.32%
Ca 317.933Radial†	264524.3	254600	µg/L	1069.9	254600	ppb	1069.9	0.42%
Cd 226.502†	319.3	-0.1083	µg/L	0.12595	-0.1083	ppb	0.12595	116.31%
Co 228.616†	51.1	2.2751	µg/L	0.17458	2.2751	ppb	0.17458	7.67%
Cr 267.716†	-136.7	-0.8150	µg/L	0.22572	-0.8150	ppb	0.22572	27.70%
Cu 324.752†	-584.6	-0.5242	µg/L	0.41973	-0.5242	ppb	0.41973	80.07%
Fe 238.204 Radial†	49610.3	53324	µg/L	237.3	53324	ppb	237.3	0.45%
K 766.490 Radial†	10153.6	8727.3	µg/L	72.34	8727.3	ppb	72.34	0.83%
Mg 279.077 IEC†	8358.3	65620	µg/L	450.5	65620	ppb	450.5	0.69%
Mn 257.610†	583882.7	965.42	µg/L	1.909	965.42	ppb	1.909	0.20%
Mo 202.031†	-8.8	1.1732	µg/L	0.25570	1.1732	ppb	0.25570	21.80%
Na 589.592 Radial†	31198.9	184360	µg/L	708.0	184360	ppb	708.0	0.38%

Ni 231.604†	101.8	5.3068	µg/L	0.76164	5.3068	ppb	0.76164	14.35%
P 214.914†	391.7	327.23	µg/L	20.341	327.23	ppb	20.341	6.22%
Pb 220.353†	-134.8	-9.1670	µg/L	3.35806	-9.1670	ppb	3.35806	36.63%
S 181.975 Axial†	5459.9	14955	µg/L	84.3	14955	ppb	84.3	0.56%
Sb 206.836†	8.1	2.2918	µg/L	7.21720	2.2918	ppb	7.21720	314.91%
Se 196.026†	-20.7	-0.9438	µg/L	19.47933	-0.9438	ppb	19.47933	>999.9%
SiO2†	327600.9	41842	µg/L	97.2	41842	ppb	97.2	0.23%
Si 251.611†	340592.0	19396	µg/L	45.4	19396	ppb	45.4	0.23%
Sn 189.927†	-310.7	-24.254	µg/L	0.4204	-24.254	ppb	0.4204	1.73%
Sr 421.552†	47415.5	695.40	µg/L	2.578	695.40	ppb	2.578	0.37%
Ti 334.940†	-3498.9	-0.3476	µg/L	0.23030	-0.3476	ppb	0.23030	66.26%
Tl 190.801†	-16.4	-7.4652	µg/L	4.25282	-7.4652	ppb	4.25282	56.97%
U 367.007†	955.9	-6.947	µg/L	12.3397	-6.947	ppb	12.3397	177.62%
V 292.402†	62.9	1.0637	µg/L	0.62561	1.0637	ppb	0.62561	58.81%
Zn 213.857†	740.0	2.7112	µg/L	0.04820	2.7112	ppb	0.04820	1.78%

Sequence No.: 18 **Autosampler Location: 316**
Sample ID: 335304021|1339675|1 **Date Collected: 11/5/2013 14:17:59**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304021|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5910.4	5910.4	91.9	%			14:18:32
1	Al 396.153Radial†	57.7	238.1	243.67	µg/L	243.67	ppb	14:18:32
1	Ca 317.933Radial†	260012.5	283009.4	272390	µg/L	272390	ppb	14:18:27
1	Fe 238.204 Radial†	18301.0	19883.0	21371	µg/L	21371	ppb	14:18:32
1	K 766.490 Radial†	19263.5	20309.1	17533	µg/L	17533	ppb	14:18:32
1	Mg 279.077 IEC†	9067.3	9862.5	77430	µg/L	77430	ppb	14:18:32
1	Na 589.592 Radial†	35542.5	38875.6	229720	µg/L	229720	ppb	14:18:32
1	Sr 421.552†	65011.2	71659.0	1051.5	µg/L	1051.5	ppb	14:18:27
1	Sc 361.383	505409.1	505409.1	89.158	%			14:18:59
1	Y 371.029	447961.0	447961.0	86.017	%			14:18:59
1	Ag 328.068†	-1179.0	-1075.5	1.1496	µg/L	1.1496	ppb	14:18:59
1	As 188.979†	-14.4	-3.8	-1.1354	µg/L	-1.1354	ppb	14:19:19
1	B 249.677†	27274.4	30365.1	1009.8	µg/L	1009.8	ppb	14:18:59
1	Ba 233.527†	100875.4	113196.4	1200.8	µg/L	1200.8	ppb	14:18:59
1	Be 313.107†	-9674.5	-5342.7	0.0179	µg/L	0.0179	ppb	14:18:59
1	Cd 226.502†	-39.7	113.9	-0.2661	µg/L	-0.2661	ppb	14:19:19
1	Co 228.616†	-82.4	22.9	1.3766	µg/L	1.3766	ppb	14:19:19
1	Cr 267.716†	-22.8	-106.6	-0.2029	µg/L	-0.2029	ppb	14:19:19
1	Cu 324.752†	2895.8	893.1	5.7445	µg/L	5.7445	ppb	14:18:59
1	Mn 257.610†	262569.0	294103.1	484.25	µg/L	484.25	ppb	14:18:59
1	Mo 202.031†	6.8	-3.7	0.4528	µg/L	0.4528	ppb	14:19:19
1	Ni 231.604†	258.2	402.8	15.710	µg/L	15.710	ppb	14:19:19
1	P 214.914†	685.3	714.3	658.06	µg/L	658.06	ppb	14:19:19
1	Pb 220.353†	31.0	-136.0	-8.3067	µg/L	-8.3067	ppb	14:19:19
1	S 181.975 Axial†	1758.6	1920.2	5253.5	µg/L	5253.5	ppb	14:19:19
1	Sb 206.836†	55.4	-1.6	-1.7624	µg/L	-1.7624	ppb	14:19:19
1	Se 196.026†	-49.6	-5.3	8.0521	µg/L	8.0521	ppb	14:19:19
1	SiO2†	261283.0	291866.6	37050	µg/L	37050	ppb	14:18:59
1	Si 251.611†	271119.3	303791.6	17191	µg/L	17191	ppb	14:18:59
1	Sn 189.927†	-260.3	-315.1	-16.938	µg/L	-16.938	ppb	14:19:19
1	Ti 334.940†	-2607.8	-2439.0	3.2235	µg/L	3.2235	ppb	14:18:59
1	Tl 190.801†	-35.2	-13.3	-6.3110	µg/L	-6.3110	ppb	14:19:19
1	U 367.007†	895.5	466.7	-5.799	µg/L	-5.799	ppb	14:18:59
1	V 292.402†	116.8	55.2	0.7511	µg/L	0.7511	ppb	14:18:59
1	Zn 213.857†	1321.0	770.4	5.6583	µg/L	5.6583	ppb	14:19:19
2	Sc RADIAL	5860.1	5860.1	91.1	%			14:18:42
2	Al 396.153Radial†	-17.9	155.6	157.47	µg/L	157.47	ppb	14:18:42
2	Ca 317.933Radial†	262118.4	287749.1	276950	µg/L	276950	ppb	14:18:37
2	Fe 238.204 Radial†	18354.7	20112.7	21618	µg/L	21618	ppb	14:18:42
2	K 766.490 Radial†	19352.1	20586.2	17773	µg/L	17773	ppb	14:18:42
2	Mg 279.077 IEC†	9126.9	10012.7	78609	µg/L	78609	ppb	14:18:42
2	Na 589.592 Radial†	35368.6	39016.4	230550	µg/L	230550	ppb	14:18:42
2	Sr 421.552†	65608.1	72921.3	1070.0	µg/L	1070.0	ppb	14:18:37
2	Sc 361.383	500926.8	500926.8	88.367	%			14:19:25
2	Y 371.029	444428.8	444428.8	85.338	%			14:19:25
2	Ag 328.068†	-1205.2	-1117.0	0.9733	µg/L	0.9733	ppb	14:19:25
2	As 188.979†	-5.3	6.4	7.3294	µg/L	7.3294	ppb	14:19:45
2	B 249.677†	27170.7	30521.5	1014.9	µg/L	1014.9	ppb	14:19:25
2	Ba 233.527†	100113.3	113346.4	1202.4	µg/L	1202.4	ppb	14:19:25
2	Be 313.107†	-9817.9	-5602.0	-0.0728	µg/L	-0.0728	ppb	14:19:25
2	Cd 226.502†	-24.4	130.8	-0.0169	µg/L	-0.0169	ppb	14:19:45
2	Co 228.616†	-112.0	-11.4	0.3484	µg/L	0.3484	ppb	14:19:45
2	Cr 267.716†	-2.9	-84.3	0.3118	µg/L	0.3118	ppb	14:19:45
2	Cu 324.752†	2732.2	737.0	4.9353	µg/L	4.9353	ppb	14:19:25
2	Mn 257.610†	261092.4	295067.2	485.82	µg/L	485.82	ppb	14:19:25
2	Mo 202.031†	-4.0	-15.9	-0.9777	µg/L	-0.9777	ppb	14:19:45
2	Ni 231.604†	251.7	398.1	15.541	µg/L	15.541	ppb	14:19:45
2	P 214.914†	693.8	730.7	673.38	µg/L	673.38	ppb	14:19:45
2	Pb 220.353†	59.1	-104.0	-1.6268	µg/L	-1.6268	ppb	14:19:45

2	S 181.975 Axial†	1742.0	1919.1	5250.3	µg/L	5250.3	ppb	14:19:45
2	Sb 206.836†	69.7	15.2	7.0303	µg/L	7.0303	ppb	14:19:45
2	Se 196.026†	-40.6	4.4	26.780	µg/L	26.780	ppb	14:19:45
2	SiO2†	259684.7	292680.1	37149	µg/L	37149	ppb	14:19:25
2	Si 251.611†	269493.8	304673.0	17239	µg/L	17239	ppb	14:19:25
2	Sn 189.927†	-266.6	-324.7	-18.546	µg/L	-18.546	ppb	14:19:45
2	Ti 334.940†	-2629.1	-2489.2	3.2531	µg/L	3.2531	ppb	14:19:25
2	Tl 190.801†	-31.6	-9.5	-4.4016	µg/L	-4.4016	ppb	14:19:45
2	U 367.007†	891.7	471.4	-6.378	µg/L	-6.378	ppb	14:19:25
2	V 292.402†	59.3	-8.8	0.0904	µg/L	0.0904	ppb	14:19:25
2	Zn 213.857†	1344.0	809.7	6.1258	µg/L	6.1258	ppb	14:19:45
3	Sc RADIAL	5874.2	5874.2	91.3	%			14:18:53
3	Al 396.153Radial†	38.0	217.0	221.62	µg/L	221.62	ppb	14:18:53
3	Ca 317.933Radial†	260870.4	285689.7	274970	µg/L	274970	ppb	14:18:47
3	Fe 238.204 Radial†	18217.7	19914.2	21405	µg/L	21405	ppb	14:18:53
3	K 766.490 Radial†	19204.7	20373.7	17590	µg/L	17590	ppb	14:18:53
3	Mg 279.077 IEC†	9009.5	9860.0	77410	µg/L	77410	ppb	14:18:53
3	Na 589.592 Radial†	35050.6	38574.7	227940	µg/L	227940	ppb	14:18:53
3	Sr 421.552†	65502.8	72632.7	1065.8	µg/L	1065.8	ppb	14:18:47
3	Sc 361.383	506036.1	506036.1	89.269	%			14:19:50
3	Y 371.029	448590.7	448590.7	86.137	%			14:19:50
3	Ag 328.068†	-1277.8	-1184.5	0.4372	µg/L	0.4372	ppb	14:19:50
3	As 188.979†	-17.8	-7.5	-4.2353	µg/L	-4.2353	ppb	14:20:10
3	B 249.677†	27305.7	30362.2	1009.6	µg/L	1009.6	ppb	14:19:50
3	Ba 233.527†	101042.4	113243.2	1201.3	µg/L	1201.3	ppb	14:19:50
3	Be 313.107†	-9686.3	-5342.4	0.0447	µg/L	0.0447	ppb	14:19:50
3	Cd 226.502†	-32.2	122.3	-0.1333	µg/L	-0.1333	ppb	14:20:10
3	Co 228.616†	-119.4	-18.4	0.1419	µg/L	0.1419	ppb	14:20:10
3	Cr 267.716†	-13.8	-96.4	0.0174	µg/L	0.0174	ppb	14:20:10
3	Cu 324.752†	2746.1	721.4	4.8408	µg/L	4.8408	ppb	14:19:50
3	Mn 257.610†	262882.6	294089.5	484.23	µg/L	484.23	ppb	14:19:50
3	Mo 202.031†	3.4	-7.5	0.0061	µg/L	0.0061	ppb	14:20:10
3	Ni 231.604†	270.0	415.8	16.198	µg/L	16.198	ppb	14:20:10
3	P 214.914†	699.1	728.8	671.72	µg/L	671.72	ppb	14:20:10
3	Pb 220.353†	45.3	-120.1	-4.9678	µg/L	-4.9678	ppb	14:20:10
3	S 181.975 Axial†	1763.5	1923.3	5261.8	µg/L	5261.8	ppb	14:20:10
3	Sb 206.836†	66.4	10.7	4.6781	µg/L	4.6781	ppb	14:20:10
3	Se 196.026†	-62.9	-20.1	-20.160	µg/L	-20.160	ppb	14:20:10
3	SiO2†	261684.3	291953.0	37060	µg/L	37060	ppb	14:19:50
3	Si 251.611†	271562.0	303910.7	17197	µg/L	17197	ppb	14:19:50
3	Sn 189.927†	-271.0	-326.7	-19.675	µg/L	-19.675	ppb	14:20:10
3	Ti 334.940†	-2785.2	-2634.1	2.7911	µg/L	2.7911	ppb	14:19:50
3	Tl 190.801†	-41.8	-20.6	-9.9549	µg/L	-9.9549	ppb	14:20:10
3	U 367.007†	892.4	462.0	-8.029	µg/L	-8.029	ppb	14:19:50
3	V 292.402†	130.5	70.3	0.8990	µg/L	0.8990	ppb	14:19:50
3	Zn 213.857†	1328.8	777.3	5.7251	µg/L	5.7251	ppb	14:20:10

Mean Data: 335304021|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	504124.0	88.931	%	0.4916				0.55%
Sc RADIAL	5881.6	91.4	%	0.40				0.44%
Y 371.029	446993.5	85.831	%	0.4308				0.50%
Ag 328.068†	-1125.7	0.8534	µg/L	0.37103	0.8534	ppb	0.37103	43.48%
Al 396.153Radial†	203.6	207.59	µg/L	44.781	207.59	ppb	44.781	21.57%
As 188.979†	-1.6	0.6529	µg/L	5.98613	0.6529	ppb	5.98613	916.85%
B 249.677†	30416.3	1011.4	µg/L	2.99	1011.4	ppb	2.99	0.30%
Ba 233.527†	113262.0	1201.5	µg/L	0.81	1201.5	ppb	0.81	0.07%
Be 313.107†	-5429.0	-0.0034	µg/L	0.06158	-0.0034	ppb	0.06158	>999.9%
Ca 317.933Radial†	285482.8	274770	µg/L	2287.5	274770	ppb	2287.5	0.83%
Cd 226.502†	122.4	-0.1388	µg/L	0.12470	-0.1388	ppb	0.12470	89.87%
Co 228.616†	-2.3	0.6223	µg/L	0.66136	0.6223	ppb	0.66136	106.28%
Cr 267.716†	-95.8	0.0421	µg/L	0.25827	0.0421	ppb	0.25827	613.74%
Cu 324.752†	783.8	5.1735	µg/L	0.49673	5.1735	ppb	0.49673	9.60%
Fe 238.204 Radial†	19970.0	21465	µg/L	133.9	21465	ppb	133.9	0.62%
K 766.490 Radial†	20423.0	17632	µg/L	125.6	17632	ppb	125.6	0.71%
Mg 279.077 IEC†	9911.7	77816	µg/L	686.4	77816	ppb	686.4	0.88%
Mn 257.610†	294420.0	484.76	µg/L	0.912	484.76	ppb	0.912	0.19%
Mo 202.031†	-9.0	-0.1729	µg/L	0.73186	-0.1729	ppb	0.73186	423.21%
Na 589.592 Radial†	38822.2	229400	µg/L	1333.4	229400	ppb	1333.4	0.58%

Ni 231.604†	405.6	15.816	µg/L	0.3409	15.816	ppb	0.3409	2.16%
P 214.914†	724.6	667.72	µg/L	8.408	667.72	ppb	8.408	1.26%
Pb 220.353†	-120.0	-4.9671	µg/L	3.33998	-4.9671	ppb	3.33998	67.24%
S 181.975 Axial†	1920.8	5255.2	µg/L	5.94	5255.2	ppb	5.94	0.11%
Sb 206.836†	8.1	3.3153	µg/L	4.55204	3.3153	ppb	4.55204	137.30%
Se 196.026†	-7.0	4.8910	µg/L	23.62919	4.8910	ppb	23.62919	483.12%
SiO2†	292166.6	37086	µg/L	54.5	37086	ppb	54.5	0.15%
Si 251.611†	304125.1	17209	µg/L	26.0	17209	ppb	26.0	0.15%
Sn 189.927†	-322.2	-18.386	µg/L	1.3755	-18.386	ppb	1.3755	7.48%
Sr 421.552†	72404.3	1062.4	µg/L	9.71	1062.4	ppb	9.71	0.91%
Ti 334.940†	-2520.7	3.0892	µg/L	0.25865	3.0892	ppb	0.25865	8.37%
Tl 190.801†	-14.5	-6.8892	µg/L	2.82143	-6.8892	ppb	2.82143	40.95%
U 367.007†	466.7	-6.735	µg/L	1.1568	-6.735	ppb	1.1568	17.18%
V 292.402†	38.9	0.5802	µg/L	0.43051	0.5802	ppb	0.43051	74.20%
Zn 213.857†	785.8	5.8364	µg/L	0.25285	5.8364	ppb	0.25285	4.33%

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Sequence No.: 19 **Autosampler Location: 317**
Sample ID: 335304022|1339675|1 **Date Collected: 11/5/2013 14:20:18**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304022|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5905.7	5905.7	91.8	%			14:20:51
1	Al 396.153Radial†	-121.3	43.2	40.106	µg/L	40.106	ppb	14:20:51
1	Ca 317.933Radial†	253252.7	275868.6	265520	µg/L	265520	ppb	14:20:46
1	Fe 238.204 Radial†	17500.5	19026.6	20451	µg/L	20451	ppb	14:20:51
1	K 766.490 Radial†	18871.2	19898.3	17176	µg/L	17176	ppb	14:20:51
1	Mg 279.077 IEC†	9017.8	9816.5	77069	µg/L	77069	ppb	14:20:51
1	Na 589.592 Radial†	35228.9	38564.5	227880	µg/L	227880	ppb	14:20:51
1	Sr 421.552†	62492.3	68970.7	1012.0	µg/L	1012.0	ppb	14:20:46
1	Sc 361.383	488969.6	488969.6	86.258	%			14:21:18
1	Y 371.029	432920.7	432920.7	83.129	%			14:21:18
1	Ag 328.068†	-1109.0	-1038.9	1.0798	µg/L	1.0798	ppb	14:21:18
1	As 188.979†	-13.9	-3.8	-1.2056	µg/L	-1.2056	ppb	14:21:38
1	B 249.677†	27612.5	31785.6	1057.7	µg/L	1057.7	ppb	14:21:18
1	Ba 233.527†	105362.7	122202.6	1296.4	µg/L	1296.4	ppb	14:21:18
1	Be 313.107†	-9888.5	-5955.6	-0.3819	µg/L	-0.3819	ppb	14:21:18
1	Cd 226.502†	-46.9	104.0	-0.3377	µg/L	-0.3377	ppb	14:21:38
1	Co 228.616†	-61.5	44.0	2.0814	µg/L	2.0814	ppb	14:21:38
1	Cr 267.716†	-54.6	-144.3	-1.0091	µg/L	-1.0091	ppb	14:21:38
1	Cu 324.752†	1737.0	-341.1	-0.7955	µg/L	-0.7955	ppb	14:21:18
1	Mn 257.610†	228782.7	264835.5	435.90	µg/L	435.90	ppb	14:21:18
1	Mo 202.031†	-1.5	-13.0	-0.6916	µg/L	-0.6916	ppb	14:21:38
1	Ni 231.604†	77.9	203.6	8.2090	µg/L	8.2090	ppb	14:21:38
1	P 214.914†	656.7	707.0	651.95	µg/L	651.95	ppb	14:21:38
1	Pb 220.353†	63.7	-96.9	-0.9681	µg/L	-0.9681	ppb	14:21:38
1	S 181.975 Axial†	1510.6	1698.9	4647.6	µg/L	4647.6	ppb	14:21:38
1	Sb 206.836†	64.8	11.4	5.1016	µg/L	5.1016	ppb	14:21:38
1	Se 196.026†	-29.3	16.3	48.646	µg/L	48.646	ppb	14:21:38
1	SiO2†	265350.8	306435.3	38927	µg/L	38927	ppb	14:21:18
1	Si 251.611†	275280.7	318839.6	18055	µg/L	18055	ppb	14:21:18
1	Sn 189.927†	-262.1	-326.9	-22.643	µg/L	-22.643	ppb	14:21:38
1	Ti 334.940†	-4020.6	-4175.2	-1.7928	µg/L	-1.7928	ppb	14:21:18
1	Tl 190.801†	-41.4	-21.8	-10.606	µg/L	-10.606	ppb	14:21:38
1	U 367.007†	868.9	469.6	1.147	µg/L	1.147	ppb	14:21:18
1	V 292.402†	60.6	-5.7	0.1222	µg/L	0.1222	ppb	14:21:18
1	Zn 213.857†	941.1	379.8	0.5415	µg/L	0.5415	ppb	14:21:38
2	Sc RADIAL	5762.4	5762.4	89.6	%			14:21:02
2	Al 396.153Radial†	-130.1	30.1	26.196	µg/L	26.196	ppb	14:21:02
2	Ca 317.933Radial†	258504.4	288596.0	277770	µg/L	277770	ppb	14:20:56
2	Fe 238.204 Radial†	17923.6	19973.3	21469	µg/L	21469	ppb	14:21:02
2	K 766.490 Radial†	19134.3	20703.5	17870	µg/L	17870	ppb	14:21:02
2	Mg 279.077 IEC†	9261.6	10333.1	81125	µg/L	81125	ppb	14:21:02
2	Na 589.592 Radial†	36176.9	40577.7	239780	µg/L	239780	ppb	14:21:02
2	Sr 421.552†	63708.0	72021.7	1056.8	µg/L	1056.8	ppb	14:20:56
2	Sc 361.383	490679.6	490679.6	86.560	%			14:21:44
2	Y 371.029	433846.5	433846.5	83.306	%			14:21:44
2	Ag 328.068†	-1091.0	-1013.5	1.6559	µg/L	1.6559	ppb	14:21:44
2	As 188.979†	-12.4	-1.9	0.4461	µg/L	0.4461	ppb	14:22:04
2	B 249.677†	27689.9	31763.4	1056.6	µg/L	1056.6	ppb	14:21:44
2	Ba 233.527†	106100.1	122628.7	1300.9	µg/L	1300.9	ppb	14:21:44
2	Be 313.107†	-9900.7	-5929.8	-0.2401	µg/L	-0.2401	ppb	14:21:44
2	Cd 226.502†	-47.0	104.1	-0.4364	µg/L	-0.4364	ppb	14:22:04
2	Co 228.616†	-76.9	26.6	1.5564	µg/L	1.5564	ppb	14:22:04
2	Cr 267.716†	-36.5	-123.2	-0.4235	µg/L	-0.4235	ppb	14:22:04
2	Cu 324.752†	1812.2	-261.3	-0.3291	µg/L	-0.3291	ppb	14:21:44
2	Mn 257.610†	229931.1	265237.9	436.51	µg/L	436.51	ppb	14:21:44
2	Mo 202.031†	-12.7	-25.9	-2.1730	µg/L	-2.1730	ppb	14:22:04
2	Ni 231.604†	73.5	198.2	8.0356	µg/L	8.0356	ppb	14:22:04
2	P 214.914†	660.8	709.0	653.04	µg/L	653.04	ppb	14:22:04
2	Pb 220.353†	43.7	-120.3	-4.7402	µg/L	-4.7402	ppb	14:22:04

2	S 181.975 Axial†	1509.7	1691.8	4627.9	µg/L	4627.9	ppb	14:22:04
2	Sb 206.836†	70.9	18.1	8.6000	µg/L	8.6000	ppb	14:22:04
2	Se 196.026†	-60.3	-19.4	-18.521	µg/L	-18.521	ppb	14:22:04
2	SiO2†	266819.7	307060.2	38992	µg/L	38992	ppb	14:21:44
2	Si 251.611†	276691.8	319357.6	18077	µg/L	18077	ppb	14:21:44
2	Sn 189.927†	-272.3	-337.6	-22.378	µg/L	-22.378	ppb	14:22:04
2	Ti 334.940†	-4204.4	-4371.2	-1.8858	µg/L	-1.8858	ppb	14:21:44
2	Tl 190.801†	-40.0	-20.0	-9.6809	µg/L	-9.6809	ppb	14:22:04
2	U 367.007†	870.5	468.0	-6.975	µg/L	-6.975	ppb	14:21:44
2	V 292.402†	102.6	42.7	0.5992	µg/L	0.5992	ppb	14:21:44
2	Zn 213.857†	929.8	363.0	0.0926	µg/L	0.0926	ppb	14:22:04
3	Sc RADIAL	5720.0	5720.0	88.9	%			14:21:12
3	Al 396.153Radial†	-133.8	24.8	20.644	µg/L	20.644	ppb	14:21:12
3	Ca 317.933Radial†	260625.8	293118.1	282120	µg/L	282120	ppb	14:21:07
3	Fe 238.204 Radial†	17756.7	19933.6	21426	µg/L	21426	ppb	14:21:12
3	K 766.490 Radial†	19085.5	20806.7	17959	µg/L	17959	ppb	14:21:12
3	Mg 279.077 IEC†	9165.9	10301.9	80880	µg/L	80880	ppb	14:21:12
3	Na 589.592 Radial†	36157.6	40855.0	241410	µg/L	241410	ppb	14:21:12
3	Sr 421.552†	64437.4	73368.6	1076.6	µg/L	1076.6	ppb	14:21:07
3	Sc 361.383	488453.9	488453.9	86.167	%			14:22:09
3	Y 371.029	431567.8	431567.8	82.869	%			14:22:09
3	Ag 328.068†	-1152.4	-1090.6	1.1642	µg/L	1.1642	ppb	14:22:09
3	As 188.979†	-13.5	-3.2	-0.6878	µg/L	-0.6878	ppb	14:22:29
3	B 249.677†	27764.4	31995.6	1064.3	µg/L	1064.3	ppb	14:22:09
3	Ba 233.527†	106217.6	123323.6	1308.2	µg/L	1308.2	ppb	14:22:09
3	Be 313.107†	-9861.8	-5936.7	-0.1954	µg/L	-0.1954	ppb	14:22:09
3	Cd 226.502†	-45.2	106.0	-0.4018	µg/L	-0.4018	ppb	14:22:29
3	Co 228.616†	-80.1	22.4	1.4407	µg/L	1.4407	ppb	14:22:29
3	Cr 267.716†	-36.3	-123.2	-0.4412	µg/L	-0.4412	ppb	14:22:29
3	Cu 324.752†	1687.6	-396.3	-1.0353	µg/L	-1.0353	ppb	14:22:09
3	Mn 257.610†	230207.9	266769.5	439.04	µg/L	439.04	ppb	14:22:09
3	Mo 202.031†	6.9	-3.2	0.5079	µg/L	0.5079	ppb	14:22:29
3	Ni 231.604†	83.3	210.0	8.4753	µg/L	8.4753	ppb	14:22:29
3	P 214.914†	649.1	698.9	643.48	µg/L	643.48	ppb	14:22:29
3	Pb 220.353†	27.0	-139.4	-8.2110	µg/L	-8.2110	ppb	14:22:29
3	S 181.975 Axial†	1518.6	1710.2	4678.0	µg/L	4678.0	ppb	14:22:29
3	Sb 206.836†	64.5	11.1	4.9317	µg/L	4.9317	ppb	14:22:29
3	Se 196.026†	-67.1	-27.5	-33.949	µg/L	-33.949	ppb	14:22:29
3	SiO2†	267294.9	309016.2	39241	µg/L	39241	ppb	14:22:09
3	Si 251.611†	277252.3	321464.7	18197	µg/L	18197	ppb	14:22:09
3	Sn 189.927†	-271.6	-338.3	-21.195	µg/L	-21.195	ppb	14:22:29
3	Ti 334.940†	-3990.6	-4145.2	-1.1024	µg/L	-1.1024	ppb	14:22:09
3	Tl 190.801†	-39.6	-19.7	-9.5336	µg/L	-9.5336	ppb	14:22:29
3	U 367.007†	904.4	511.9	7.092	µg/L	7.092	ppb	14:22:09
3	V 292.402†	155.0	104.0	1.2619	µg/L	1.2619	ppb	14:22:09
3	Zn 213.857†	941.4	381.3	0.3105	µg/L	0.3105	ppb	14:22:29

Mean Data: 335304022|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	489367.7	86.328	%	0.2055				0.24%
Sc RADIAL	5796.0	90.1	%	1.51				1.68%
Y 371.029	432778.3	83.101	%	0.2201				0.26%
Ag 328.068†	-1047.6	1.3000	µg/L	0.31115	1.3000	ppb	0.31115	23.94%
Al 396.153Radial†	32.7	28.982	µg/L	10.0255	28.982	ppb	10.0255	34.59%
As 188.979†	-3.0	-0.4824	µg/L	0.84479	-0.4824	ppb	0.84479	175.11%
B 249.677†	31848.2	1059.5	µg/L	4.18	1059.5	ppb	4.18	0.39%
Ba 233.527†	122718.3	1301.8	µg/L	6.00	1301.8	ppb	6.00	0.46%
Be 313.107†	-5940.7	-0.2724	µg/L	0.09737	-0.2724	ppb	0.09737	35.74%
Ca 317.933Radial†	285860.9	275130	µg/L	8608.6	275130	ppb	8608.6	3.13%
Cd 226.502†	104.7	-0.3920	µg/L	0.05012	-0.3920	ppb	0.05012	12.79%
Co 228.616†	31.0	1.6928	µg/L	0.34145	1.6928	ppb	0.34145	20.17%
Cr 267.716†	-130.2	-0.6246	µg/L	0.33312	-0.6246	ppb	0.33312	53.33%
Cu 324.752†	-332.9	-0.7200	µg/L	0.35912	-0.7200	ppb	0.35912	49.88%
Fe 238.204 Radial†	19644.5	21115	µg/L	575.6	21115	ppb	575.6	2.73%
K 766.490 Radial†	20469.5	17668	µg/L	428.7	17668	ppb	428.7	2.43%
Mg 279.077 IEC†	10150.5	79691	µg/L	2274.4	79691	ppb	2274.4	2.85%
Mn 257.610†	265614.3	437.15	µg/L	1.665	437.15	ppb	1.665	0.38%
Mo 202.031†	-14.1	-0.7856	µg/L	1.34291	-0.7856	ppb	1.34291	170.94%
Na 589.592 Radial†	39999.0	236360	µg/L	7386.9	236360	ppb	7386.9	3.13%

Ni 231.604†	203.9	8.2399	µg/L	0.22151	8.2399	ppb	0.22151	2.69%
P 214.914†	705.0	649.49	µg/L	5.233	649.49	ppb	5.233	0.81%
Pb 220.353†	-118.9	-4.6398	µg/L	3.62249	-4.6398	ppb	3.62249	78.07%
S 181.975 Axial†	1700.3	4651.2	µg/L	25.24	4651.2	ppb	25.24	0.54%
Sb 206.836†	13.5	6.2111	µg/L	2.07056	6.2111	ppb	2.07056	33.34%
Se 196.026†	-10.2	-1.2748	µg/L	43.91536	-1.2748	ppb	43.91536	>999.9%
SiO2†	307503.9	39053	µg/L	165.5	39053	ppb	165.5	0.42%
Si 251.611†	319887.3	18110	µg/L	76.2	18110	ppb	76.2	0.42%
Sn 189.927†	-334.3	-22.072	µg/L	0.7709	-22.072	ppb	0.7709	3.49%
Sr 421.552†	71453.7	1048.5	µg/L	33.06	1048.5	ppb	33.06	3.15%
Ti 334.940†	-4230.5	-1.5937	µg/L	0.42800	-1.5937	ppb	0.42800	26.86%
Tl 190.801†	-20.5	-9.9403	µg/L	0.58160	-9.9403	ppb	0.58160	5.85%
U 367.007†	483.2	0.421	µg/L	7.0615	0.421	ppb	7.0615	>999.9%
V 292.402†	47.0	0.6611	µg/L	0.57238	0.6611	ppb	0.57238	86.58%
Zn 213.857†	374.7	0.3149	µg/L	0.22445	0.3149	ppb	0.22445	71.28%

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Sequence No.: 20 **Autosampler Location: 318**
Sample ID: 335304023|1339675|1 **Date Collected: 11/5/2013 14:22:37**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304023|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	5832.4	5832.4	90.6	%			14:23:10
1	Al 396.153Radial†	-147.1	13.1	3.8459	µg/L	3.8459	ppb	14:23:10
1	Ca 317.933Radial†	176710.6	194897.7	187580	µg/L	187580	ppb	14:23:05
1	Fe 238.204 Radial†	31191.0	34369.5	36942	µg/L	36942	ppb	14:23:10
1	K 766.490 Radial†	21194.8	22720.2	19588	µg/L	19588	ppb	14:23:10
1	Mg 279.077 IEC†	8645.0	9528.7	74809	µg/L	74809	ppb	14:23:10
1	Na 589.592 Radial†	48993.6	54232.1	320460	µg/L	320460	ppb	14:23:10
1	Sr 421.552†	78139.9	87089.0	1278.6	µg/L	1278.6	ppb	14:23:05
1	Sc 361.383	495283.4	495283.4	87.372	%			14:23:37
1	Y 371.029	437592.7	437592.7	84.026	%			14:23:37
1	Ag 328.068†	-1652.3	-1644.3	0.5378	µg/L	0.5378	ppb	14:23:37
1	As 188.979†	226.7	271.8	229.05	µg/L	229.05	ppb	14:23:57
1	B 249.677†	70362.0	80305.8	2685.3	µg/L	2685.3	ppb	14:23:37
1	Ba 233.527†	74851.6	85724.4	908.92	µg/L	908.92	ppb	14:23:37
1	Be 313.107†	-8433.3	-4143.9	-0.2104	µg/L	-0.2104	ppb	14:23:37
1	Cd 226.502†	50.8	216.5	-0.1405	µg/L	-0.1405	ppb	14:23:57
1	Co 228.616†	66.7	191.7	6.1807	µg/L	6.1807	ppb	14:23:57
1	Cr 267.716†	-11.7	-94.4	-0.4964	µg/L	-0.4964	ppb	14:23:57
1	Cu 324.752†	1681.8	-429.9	-0.4946	µg/L	-0.4946	ppb	14:23:37
1	Mn 257.610†	824804.9	943622.1	1557.2	µg/L	1557.2	ppb	14:23:37
1	Mo 202.031†	91.1	92.9	12.533	µg/L	12.533	ppb	14:23:57
1	Ni 231.604†	604.9	805.6	31.251	µg/L	31.251	ppb	14:23:57
1	P 214.914†	781.1	839.6	763.88	µg/L	763.88	ppb	14:23:57
1	Pb 220.353†	55.5	-107.3	-8.4590	µg/L	-8.4590	ppb	14:23:57
1	S 181.975 Axial†	3210.7	3622.5	9921.1	µg/L	9921.1	ppb	14:23:57
1	Sb 206.836†	46.3	-10.7	-6.9560	µg/L	-6.9560	ppb	14:23:57
1	Se 196.026†	-55.8	-13.6	2.2933	µg/L	2.2933	ppb	14:23:57
1	SiO2†	318167.1	362963.7	46127	µg/L	46127	ppb	14:23:37
1	Si 251.611†	329806.7	377178.1	21370	µg/L	21370	ppb	14:23:37
1	Sn 189.927†	-239.7	-297.4	-40.149	µg/L	-40.149	ppb	14:23:57
1	Ti 334.940†	-3042.8	-2996.6	-1.6234	µg/L	-1.6234	ppb	14:23:37
1	Tl 190.801†	-45.6	-26.0	-12.013	µg/L	-12.013	ppb	14:23:57
1	U 367.007†	1081.6	700.2	7.147	µg/L	7.147	ppb	14:23:37
1	V 292.402†	206.4	160.3	2.0641	µg/L	2.0641	ppb	14:23:37
1	Zn 213.857†	1113.0	562.6	2.0448	µg/L	2.0448	ppb	14:23:57
2	Sc RADIAL	5835.4	5835.4	90.7	%			14:23:20
2	Al 396.153Radial†	-121.6	41.2	33.307	µg/L	33.307	ppb	14:23:20
2	Ca 317.933Radial†	177087.2	195212.4	187880	µg/L	187880	ppb	14:23:15
2	Fe 238.204 Radial†	31092.2	34242.8	36806	µg/L	36806	ppb	14:23:20
2	K 766.490 Radial†	21180.2	22692.0	19565	µg/L	19565	ppb	14:23:20
2	Mg 279.077 IEC†	8525.6	9392.2	73738	µg/L	73738	ppb	14:23:20
2	Na 589.592 Radial†	48860.7	54057.6	319430	µg/L	319430	ppb	14:23:20
2	Sr 421.552†	78144.7	87049.8	1278.0	µg/L	1278.0	ppb	14:23:15
2	Sc 361.383	525417.7	525417.7	92.688	%			14:24:03
2	Y 371.029	463997.1	463997.1	89.096	%			14:24:03
2	Ag 328.068†	-1683.0	-1569.0	1.0166	µg/L	1.0166	ppb	14:24:03
2	As 188.979†	224.8	254.9	214.98	µg/L	214.98	ppb	14:24:23
2	B 249.677†	69584.4	74848.0	2501.9	µg/L	2501.9	ppb	14:24:03
2	Ba 233.527†	73841.1	79720.7	845.21	µg/L	845.21	ppb	14:24:03
2	Be 313.107†	-8529.6	-3694.3	0.0322	µg/L	0.0322	ppb	14:24:03
2	Cd 226.502†	37.2	198.5	-0.4186	µg/L	-0.4186	ppb	14:24:23
2	Co 228.616†	77.1	198.5	6.3427	µg/L	6.3427	ppb	14:24:23
2	Cr 267.716†	-23.3	-106.1	-0.6898	µg/L	-0.6898	ppb	14:24:23
2	Cu 324.752†	1692.4	-528.9	-1.0249	µg/L	-1.0249	ppb	14:24:03
2	Mn 257.610†	812679.6	876397.9	1446.3	µg/L	1446.3	ppb	14:24:03
2	Mo 202.031†	92.9	88.9	12.051	µg/L	12.051	ppb	14:24:23
2	Ni 231.604†	596.7	757.0	29.426	µg/L	29.426	ppb	14:24:23
2	P 214.914†	783.4	790.9	717.92	µg/L	717.92	ppb	14:24:23
2	Pb 220.353†	65.3	-100.3	-7.0777	µg/L	-7.0777	ppb	14:24:23

2	S 181.975 Axial†	3184.7	3383.6	9266.9	µg/L	9266.9	ppb	14:24:23
2	Sb 206.836†	67.5	9.1	3.5164	µg/L	3.5164	ppb	14:24:23
2	Se 196.026†	-47.5	-0.9	26.336	µg/L	26.336	ppb	14:24:23
2	SiO2†	314197.3	337795.4	42898	µg/L	42898	ppb	14:24:03
2	Si 251.611†	325696.2	351094.0	19878	µg/L	19878	ppb	14:24:03
2	Sn 189.927†	-225.2	-266.0	-30.358	µg/L	-30.358	ppb	14:24:23
2	Ti 334.940†	-2976.5	-2725.3	-0.8579	µg/L	-0.8579	ppb	14:24:03
2	Tl 190.801†	-35.7	-12.3	-5.2169	µg/L	-5.2169	ppb	14:24:23
2	U 367.007†	1133.3	685.0	2.543	µg/L	2.543	ppb	14:24:03
2	V 292.402†	145.4	81.0	1.2493	µg/L	1.2493	ppb	14:24:03
2	Zn 213.857†	1125.5	503.0	1.2667	µg/L	1.2667	ppb	14:24:23
3	Sc RADIAL	5828.7	5828.7	90.6	%			14:23:31
3	Al 396.153Radial†	-137.9	23.1	14.389	µg/L	14.389	ppb	14:23:31
3	Ca 317.933Radial†	178015.7	196459.7	189080	µg/L	189080	ppb	14:23:25
3	Fe 238.204 Radial†	31066.3	34253.2	36818	µg/L	36818	ppb	14:23:31
3	K 766.490 Radial†	21104.3	22634.8	19515	µg/L	19515	ppb	14:23:31
3	Mg 279.077 IEC†	8551.3	9431.2	74044	µg/L	74044	ppb	14:23:31
3	Na 589.592 Radial†	48998.8	54271.4	320690	µg/L	320690	ppb	14:23:31
3	Sr 421.552†	78612.8	87664.6	1287.1	µg/L	1287.1	ppb	14:23:25
3	Sc 361.383	522284.7	522284.7	92.135	%			14:24:28
3	Y 371.029	460872.4	460872.4	88.496	%			14:24:28
3	Ag 328.068†	-1629.3	-1521.5	1.3533	µg/L	1.3533	ppb	14:24:28
3	As 188.979†	217.4	248.3	209.53	µg/L	209.53	ppb	14:24:48
3	B 249.677†	69516.3	75224.5	2514.6	µg/L	2514.6	ppb	14:24:28
3	Ba 233.527†	73600.3	79937.2	847.51	µg/L	847.51	ppb	14:24:28
3	Be 313.107†	-8523.0	-3742.3	0.0200	µg/L	0.0200	ppb	14:24:28
3	Cd 226.502†	42.9	204.9	-0.3159	µg/L	-0.3159	ppb	14:24:48
3	Co 228.616†	76.0	197.9	6.3235	µg/L	6.3235	ppb	14:24:48
3	Cr 267.716†	-47.8	-132.9	-1.2657	µg/L	-1.2657	ppb	14:24:48
3	Cu 324.752†	1557.4	-664.4	-1.7345	µg/L	-1.7345	ppb	14:24:28
3	Mn 257.610†	811219.0	880072.2	1452.3	µg/L	1452.3	ppb	14:24:28
3	Mo 202.031†	85.0	81.0	11.116	µg/L	11.116	ppb	14:24:48
3	Ni 231.604†	592.9	756.8	29.419	µg/L	29.419	ppb	14:24:48
3	P 214.914†	782.6	795.1	721.87	µg/L	721.87	ppb	14:24:48
3	Pb 220.353†	73.5	-91.0	-5.1563	µg/L	-5.1563	ppb	14:24:48
3	S 181.975 Axial†	3189.6	3409.7	9338.1	µg/L	9338.1	ppb	14:24:48
3	Sb 206.836†	64.7	6.5	2.1494	µg/L	2.1494	ppb	14:24:48
3	Se 196.026†	-67.0	-22.4	-14.601	µg/L	-14.601	ppb	14:24:48
3	SiO2†	313562.0	339139.4	43072	µg/L	43072	ppb	14:24:28
3	Si 251.611†	325170.1	352630.9	19966	µg/L	19966	ppb	14:24:28
3	Sn 189.927†	-228.2	-270.7	-31.428	µg/L	-31.428	ppb	14:24:48
3	Ti 334.940†	-2878.5	-2638.2	-0.5775	µg/L	-0.5775	ppb	14:24:28
3	Tl 190.801†	-43.9	-21.5	-9.7937	µg/L	-9.7937	ppb	14:24:48
3	U 367.007†	1140.9	700.6	7.482	µg/L	7.482	ppb	14:24:28
3	V 292.402†	77.1	7.8	0.4991	µg/L	0.4991	ppb	14:24:28
3	Zn 213.857†	1148.5	535.3	1.6925	µg/L	1.6925	ppb	14:24:48

Mean Data: 335304023|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	514328.6	90.732	%	2.9227				3.22%
Sc RADIAL	5832.2	90.6	%	0.05				0.06%
Y 371.029	454154.1	87.206	%	2.7703				3.18%
Ag 328.068†	-1578.3	0.9693	µg/L	0.40981	0.9693	ppb	0.40981	42.28%
Al 396.153Radial†	25.8	17.181	µg/L	14.9273	17.181	ppb	14.9273	86.88%
As 188.979†	258.3	217.86	µg/L	10.070	217.86	ppb	10.070	4.62%
B 249.677†	76792.8	2567.2	µg/L	102.40	2567.2	ppb	102.40	3.99%
Ba 233.527†	81794.1	867.22	µg/L	36.137	867.22	ppb	36.137	4.17%
Be 313.107†	-3860.2	-0.0527	µg/L	0.13671	-0.0527	ppb	0.13671	259.34%
Ca 317.933Radial†	195523.3	188180	µg/L	795.2	188180	ppb	795.2	0.42%
Cd 226.502†	206.7	-0.2917	µg/L	0.14059	-0.2917	ppb	0.14059	48.20%
Co 228.616†	196.0	6.2823	µg/L	0.08850	6.2823	ppb	0.08850	1.41%
Cr 267.716†	-111.1	-0.8173	µg/L	0.40019	-0.8173	ppb	0.40019	48.96%
Cu 324.752†	-541.1	-1.0847	µg/L	0.62208	-1.0847	ppb	0.62208	57.35%
Fe 238.204 Radial†	34288.5	36855	µg/L	75.6	36855	ppb	75.6	0.21%
K 766.490 Radial†	22682.3	19556	µg/L	37.7	19556	ppb	37.7	0.19%
Mg 279.077 IEC†	9450.7	74197	µg/L	552.0	74197	ppb	552.0	0.74%
Mn 257.610†	900030.8	1485.3	µg/L	62.34	1485.3	ppb	62.34	4.20%
Mo 202.031†	87.6	11.900	µg/L	0.7207	11.900	ppb	0.7207	6.06%
Na 589.592 Radial†	54187.1	320190	µg/L	672.4	320190	ppb	672.4	0.21%

Ni 231.604†	773.1	30.032	µg/L	1.0555	30.032	ppb	1.0555	3.51%
P 214.914†	808.5	734.56	µg/L	25.468	734.56	ppb	25.468	3.47%
Pb 220.353†	-99.5	-6.8977	µg/L	1.65869	-6.8977	ppb	1.65869	24.05%
S 181.975 Axial†	3471.9	9508.7	µg/L	358.88	9508.7	ppb	358.88	3.77%
Sb 206.836†	1.6	-0.4300	µg/L	5.69280	-0.4300	ppb	5.69280	>999.9%
Se 196.026†	-12.3	4.6762	µg/L	20.57260	4.6762	ppb	20.57260	439.95%
SiO2†	346632.8	44032	µg/L	1816.2	44032	ppb	1816.2	4.12%
Si 251.611†	360301.0	20404	µg/L	837.0	20404	ppb	837.0	4.10%
Sn 189.927†	-278.1	-33.979	µg/L	5.3709	-33.979	ppb	5.3709	15.81%
Sr 421.552†	87267.8	1281.2	µg/L	5.05	1281.2	ppb	5.05	0.39%
Ti 334.940†	-2786.7	-1.0196	µg/L	0.54142	-1.0196	ppb	0.54142	53.10%
Tl 190.801†	-19.9	-9.0078	µg/L	3.46535	-9.0078	ppb	3.46535	38.47%
U 367.007†	695.3	5.724	µg/L	2.7598	5.724	ppb	2.7598	48.21%
V 292.402†	83.0	1.2708	µg/L	0.78272	1.2708	ppb	0.78272	61.59%
Zn 213.857†	533.6	1.6680	µg/L	0.38962	1.6680	ppb	0.38962	23.36%

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Sequence No.: 21 **Autosampler Location: 319**
Sample ID: 335304024|1339675|1 **Date Collected: 11/5/2013 14:24:56**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304024|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6195.8	6195.8	96.3	%			14:25:29
1	Al 396.153Radial†	-48.8	124.6	120.80	µg/L	120.80	ppb	14:25:29
1	Ca 317.933Radial†	176773.0	183528.0	176640	µg/L	176640	ppb	14:25:24
1	Fe 238.204 Radial†	31735.6	32916.7	35381	µg/L	35381	ppb	14:25:29
1	K 766.490 Radial†	21579.2	21747.9	18751	µg/L	18751	ppb	14:25:29
1	Mg 279.077 IEC†	8572.7	8894.3	69828	µg/L	69828	ppb	14:25:29
1	Na 589.592 Radial†	49646.8	51740.1	305730	µg/L	305730	ppb	14:25:29
1	Sr 421.552†	77955.7	81841.5	1201.6	µg/L	1201.6	ppb	14:25:24
1	Sc 361.383	532070.2	532070.2	93.861	%			14:25:57
1	Y 371.029	469951.8	469951.8	90.239	%			14:25:57
1	Ag 328.068†	-1529.8	-1383.0	1.7947	µg/L	1.7947	ppb	14:25:57
1	As 188.979†	228.4	255.7	215.55	µg/L	215.55	ppb	14:26:17
1	B 249.677†	69983.8	74334.9	2485.2	µg/L	2485.2	ppb	14:25:57
1	Ba 233.527†	75343.1	80324.9	851.65	µg/L	851.65	ppb	14:25:57
1	Be 313.107†	-8522.7	-3571.9	-0.0240	µg/L	-0.0240	ppb	14:25:57
1	Cd 226.502†	46.8	208.3	-0.1186	µg/L	-0.1186	ppb	14:26:17
1	Co 228.616†	97.5	219.2	6.9646	µg/L	6.9646	ppb	14:26:17
1	Cr 267.716†	11.5	-68.7	0.0010	µg/L	0.0010	ppb	14:26:17
1	Cu 324.752†	1796.6	-440.7	-0.6363	µg/L	-0.6363	ppb	14:25:57
1	Mn 257.610†	813593.7	866409.3	1429.8	µg/L	1429.8	ppb	14:25:57
1	Mo 202.031†	94.8	89.7	12.088	µg/L	12.088	ppb	14:26:17
1	Ni 231.604†	655.7	811.9	31.445	µg/L	31.445	ppb	14:26:17
1	P 214.914†	836.7	837.0	762.70	µg/L	762.70	ppb	14:26:17
1	Pb 220.353†	62.2	-104.5	-8.7100	µg/L	-8.7100	ppb	14:26:17
1	S 181.975 Axial†	3146.8	3300.3	9038.9	µg/L	9038.9	ppb	14:26:17
1	Sb 206.836†	61.9	2.2	-0.0991	µg/L	-0.0991	ppb	14:26:17
1	Se 196.026†	-54.5	-7.8	12.063	µg/L	12.063	ppb	14:26:17
1	SiO2†	319858.6	339588.7	43147	µg/L	43147	ppb	14:25:57
1	Si 251.611†	331827.9	353233.3	20009	µg/L	20009	ppb	14:25:57
1	Sn 189.927†	-226.1	-264.0	-32.903	µg/L	-32.903	ppb	14:26:17
1	Ti 334.940†	-1899.3	-1537.6	1.9968	µg/L	1.9968	ppb	14:25:57
1	Tl 190.801†	-40.5	-16.9	-7.5470	µg/L	-7.5470	ppb	14:26:17
1	U 367.007†	1086.7	620.1	-9.529	µg/L	-9.529	ppb	14:25:57
1	V 292.402†	125.7	58.0	0.9944	µg/L	0.9944	ppb	14:25:57
1	Zn 213.857†	1368.2	746.5	4.8109	µg/L	4.8109	ppb	14:26:17
2	Sc RADIAL	6232.8	6232.8	96.9	%			14:25:39
2	Al 396.153Radial†	-34.0	140.2	137.28	µg/L	137.28	ppb	14:25:39
2	Ca 317.933Radial†	177837.0	183536.4	176640	µg/L	176640	ppb	14:25:34
2	Fe 238.204 Radial†	31542.4	32521.6	34956	µg/L	34956	ppb	14:25:39
2	K 766.490 Radial†	21463.9	21495.8	18533	µg/L	18533	ppb	14:25:39
2	Mg 279.077 IEC†	8566.5	8835.0	69363	µg/L	69363	ppb	14:25:39
2	Na 589.592 Radial†	49497.8	51280.2	303020	µg/L	303020	ppb	14:25:39
2	Sr 421.552†	78499.5	81922.1	1202.7	µg/L	1202.7	ppb	14:25:34
2	Sc 361.383	528018.2	528018.2	93.146	%			14:26:23
2	Y 371.029	466390.6	466390.6	89.555	%			14:26:23
2	Ag 328.068†	-1694.6	-1572.4	0.3814	µg/L	0.3814	ppb	14:26:23
2	As 188.979†	225.1	254.0	214.11	µg/L	214.11	ppb	14:26:43
2	B 249.677†	71062.0	76064.6	2543.4	µg/L	2543.4	ppb	14:26:23
2	Ba 233.527†	76538.1	82223.8	871.81	µg/L	871.81	ppb	14:26:23
2	Be 313.107†	-8477.0	-3592.4	-0.0334	µg/L	-0.0334	ppb	14:26:23
2	Cd 226.502†	66.8	230.1	0.2767	µg/L	0.2767	ppb	14:26:43
2	Co 228.616†	83.7	205.3	6.5616	µg/L	6.5616	ppb	14:26:43
2	Cr 267.716†	1.8	-79.1	-0.2768	µg/L	-0.2768	ppb	14:26:43
2	Cu 324.752†	1866.3	-351.2	-0.1787	µg/L	-0.1787	ppb	14:26:23
2	Mn 257.610†	827237.1	887708.4	1464.9	µg/L	1464.9	ppb	14:26:23
2	Mo 202.031†	85.4	80.3	10.962	µg/L	10.962	ppb	14:26:43
2	Ni 231.604†	661.0	822.9	31.845	µg/L	31.845	ppb	14:26:43
2	P 214.914†	828.6	835.2	761.38	µg/L	761.38	ppb	14:26:43
2	Pb 220.353†	90.5	-73.6	-2.6264	µg/L	-2.6264	ppb	14:26:43

2	S 181.975 Axial†	3195.8	3378.7	9253.3	µg/L	9253.3	ppb	14:26:43
2	Sb 206.836†	51.6	-8.4	-5.6577	µg/L	-5.6577	ppb	14:26:43
2	Se 196.026†	-62.1	-16.4	-4.6234	µg/L	-4.6234	ppb	14:26:43
2	SiO2†	325414.4	348168.4	44253	µg/L	44253	ppb	14:26:23
2	Si 251.611†	337313.3	361835.3	20503	µg/L	20503	ppb	14:26:23
2	Sn 189.927†	-222.9	-262.4	-32.349	µg/L	-32.349	ppb	14:26:43
2	Ti 334.940†	-1972.3	-1631.4	1.7408	µg/L	1.7408	ppb	14:26:23
2	Tl 190.801†	-37.6	-14.2	-6.1363	µg/L	-6.1363	ppb	14:26:43
2	U 367.007†	1099.6	642.8	0.319	µg/L	0.319	ppb	14:26:23
2	V 292.402†	135.5	69.6	1.1039	µg/L	1.1039	ppb	14:26:23
2	Zn 213.857†	1357.2	745.9	4.8407	µg/L	4.8407	ppb	14:26:43
3	Sc RADIAL	6172.4	6172.4	95.9	%			14:25:50
3	Al 396.153Radial†	-36.5	137.3	134.08	µg/L	134.08	ppb	14:25:50
3	Ca 317.933Radial†	178571.6	186098.4	179110	µg/L	179110	ppb	14:25:45
3	Fe 238.204 Radial†	31617.9	32918.9	35383	µg/L	35383	ppb	14:25:50
3	K 766.490 Radial†	21603.6	21858.2	18845	µg/L	18845	ppb	14:25:50
3	Mg 279.077 IEC†	8583.8	8939.5	70184	µg/L	70184	ppb	14:25:50
3	Na 589.592 Radial†	49928.8	52229.5	308630	µg/L	308630	ppb	14:25:50
3	Sr 421.552†	78876.9	83108.4	1220.2	µg/L	1220.2	ppb	14:25:45
3	Sc 361.383	527558.3	527558.3	93.065	%			14:26:48
3	Y 371.029	465690.8	465690.8	89.421	%			14:26:48
3	Ag 328.068†	-1685.8	-1564.6	0.5774	µg/L	0.5774	ppb	14:26:48
3	As 188.979†	240.5	270.8	228.08	µg/L	228.08	ppb	14:27:09
3	B 249.677†	71398.5	76492.8	2557.6	µg/L	2557.6	ppb	14:26:48
3	Ba 233.527†	76942.4	82729.9	877.18	µg/L	877.18	ppb	14:26:48
3	Be 313.107†	-8399.3	-3516.8	0.0337	µg/L	0.0337	ppb	14:26:48
3	Cd 226.502†	48.8	210.9	-0.0766	µg/L	-0.0766	ppb	14:27:09
3	Co 228.616†	89.6	211.7	6.7553	µg/L	6.7553	ppb	14:27:09
3	Cr 267.716†	13.9	-66.1	0.0275	µg/L	0.0275	ppb	14:27:09
3	Cu 324.752†	1899.7	-313.5	0.0412	µg/L	0.0412	ppb	14:26:48
3	Mn 257.610†	830538.0	892029.5	1472.1	µg/L	1472.1	ppb	14:26:48
3	Mo 202.031†	87.2	82.3	11.217	µg/L	11.217	ppb	14:27:09
3	Ni 231.604†	686.5	851.0	32.911	µg/L	32.911	ppb	14:27:09
3	P 214.914†	851.4	860.5	784.90	µg/L	784.90	ppb	14:27:09
3	Pb 220.353†	82.8	-81.8	-4.0647	µg/L	-4.0647	ppb	14:27:09
3	S 181.975 Axial†	3207.0	3393.7	9294.4	µg/L	9294.4	ppb	14:27:09
3	Sb 206.836†	73.3	15.0	6.6573	µg/L	6.6573	ppb	14:27:09
3	Se 196.026†	-66.1	-20.7	-12.505	µg/L	-12.505	ppb	14:27:09
3	SiO2†	326408.9	349541.6	44422	µg/L	44422	ppb	14:26:48
3	Si 251.611†	338416.0	363335.8	20586	µg/L	20586	ppb	14:26:48
3	Sn 189.927†	-228.6	-268.7	-33.590	µg/L	-33.590	ppb	14:27:09
3	Ti 334.940†	-1888.2	-1543.0	2.0700	µg/L	2.0700	ppb	14:26:48
3	Tl 190.801†	-38.7	-15.3	-6.7116	µg/L	-6.7116	ppb	14:27:09
3	U 367.007†	1110.1	655.1	1.718	µg/L	1.718	ppb	14:26:48
3	V 292.402†	171.2	108.1	1.5014	µg/L	1.5014	ppb	14:26:48
3	Zn 213.857†	1376.8	768.1	5.0722	µg/L	5.0722	ppb	14:27:09

Mean Data: 335304024|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	529215.6	93.358	%	0.4380				0.47%
Sc RADIAL	6200.3	96.4	%	0.47				0.49%
Y 371.029	467344.4	89.738	%	0.4388				0.49%
Ag 328.068†	-1506.7	0.9178	µg/L	0.76568	0.9178	ppb	0.76568	83.42%
Al 396.153Radial†	134.0	130.72	µg/L	8.741	130.72	ppb	8.741	6.69%
As 188.979†	260.2	219.25	µg/L	7.683	219.25	ppb	7.683	3.50%
B 249.677†	75630.8	2528.8	µg/L	38.40	2528.8	ppb	38.40	1.52%
Ba 233.527†	81759.5	866.88	µg/L	13.457	866.88	ppb	13.457	1.55%
Be 313.107†	-3560.4	-0.0079	µg/L	0.03633	-0.0079	ppb	0.03633	458.94%
Ca 317.933Radial†	184387.6	177460	µg/L	1426.0	177460	ppb	1426.0	0.80%
Cd 226.502†	216.4	0.0272	µg/L	0.21713	0.0272	ppb	0.21713	798.55%
Co 228.616†	212.1	6.7605	µg/L	0.20154	6.7605	ppb	0.20154	2.98%
Cr 267.716†	-71.3	-0.0827	µg/L	0.16857	-0.0827	ppb	0.16857	203.76%
Cu 324.752†	-368.5	-0.2579	µg/L	0.34565	-0.2579	ppb	0.34565	134.02%
Fe 238.204 Radial†	32785.7	35240	µg/L	245.8	35240	ppb	245.8	0.70%
K 766.490 Radial†	21700.6	18710	µg/L	160.2	18710	ppb	160.2	0.86%
Mg 279.077 IEC†	8889.6	69792	µg/L	411.7	69792	ppb	411.7	0.59%
Mn 257.610†	882049.1	1455.6	µg/L	22.62	1455.6	ppb	22.62	1.55%
Mo 202.031†	84.1	11.422	µg/L	0.5901	11.422	ppb	0.5901	5.17%
Na 589.592 Radial†	51750.0	305790	µg/L	2805.1	305790	ppb	2805.1	0.92%

Ni 231.604†	828.6	32.067	µg/L	0.7582	32.067	ppb	0.7582	2.36%
P 214.914†	844.3	769.66	µg/L	13.214	769.66	ppb	13.214	1.72%
Pb 220.353†	-86.7	-5.1337	µg/L	3.17961	-5.1337	ppb	3.17961	61.94%
S 181.975 Axial†	3357.6	9195.6	µg/L	137.19	9195.6	ppb	137.19	1.49%
Sb 206.836†	2.9	0.3002	µg/L	6.16721	0.3002	ppb	6.16721	>999.9%
Se 196.026†	-14.9	-1.6882	µg/L	12.54413	-1.6882	ppb	12.54413	743.04%
SiO2†	345766.2	43940	µg/L	692.5	43940	ppb	692.5	1.58%
Si 251.611†	359468.1	20366	µg/L	312.0	20366	ppb	312.0	1.53%
Sn 189.927†	-265.0	-32.947	µg/L	0.6214	-32.947	ppb	0.6214	1.89%
Sr 421.552†	82290.7	1208.2	µg/L	10.41	1208.2	ppb	10.41	0.86%
Ti 334.940†	-1570.6	1.9359	µg/L	0.17289	1.9359	ppb	0.17289	8.93%
Tl 190.801†	-15.5	-6.7983	µg/L	0.70932	-6.7983	ppb	0.70932	10.43%
U 367.007†	639.3	-2.497	µg/L	6.1297	-2.497	ppb	6.1297	245.46%
V 292.402†	78.6	1.1999	µg/L	0.26678	1.1999	ppb	0.26678	22.23%
Zn 213.857†	753.5	4.9079	µg/L	0.14307	4.9079	ppb	0.14307	2.92%

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Sequence No.: 22 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/5/2013 14:27:16**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6181.3	6181.3	96.1	%			14:28:07
1	Al 396.153Radial†	4446.8	4804.1	4976.6	µg/L	4976.6	ppb	14:27:47
1	Ca 317.933Radial†	4968.6	5125.0	4931.8	µg/L	4931.8	ppb	14:28:07
1	Fe 238.204 Radial†	4615.6	4764.4	5125.8	µg/L	5125.8	ppb	14:28:07
1	K 766.490 Radial†	6402.6	6002.9	5207.2	µg/L	5207.2	ppb	14:27:47
1	Mg 279.077 IEC†	633.4	651.0	5111.1	µg/L	5111.1	ppb	14:28:07
1	Na 589.592 Radial†	1727.9	1981.7	11710	µg/L	11710	ppb	14:27:47
1	Sr 421.552†	32559.4	34777.7	510.93	µg/L	510.93	ppb	14:27:47
1	Sc 361.383	555256.6	555256.6	97.952	%			14:29:04
1	Y 371.029	495703.4	495703.4	95.184	%			14:29:04
1	Ag 328.068†	71303.4	73041.4	506.28	µg/L	506.28	ppb	14:29:10
1	As 188.979†	571.3	595.6	495.51	µg/L	495.51	ppb	14:29:30
1	B 249.677†	14507.7	14585.2	486.42	µg/L	486.42	ppb	14:29:10
1	Ba 233.527†	45450.2	46454.8	493.52	µg/L	493.52	ppb	14:29:10
1	Be 313.107†	894490.3	918705.3	491.86	µg/L	491.86	ppb	14:29:04
1	Cd 226.502†	29205.6	29974.8	484.48	µg/L	484.48	ppb	14:29:10
1	Co 228.616†	16018.3	16468.7	491.99	µg/L	491.99	ppb	14:29:10
1	Cr 267.716†	22573.0	22964.1	493.01	µg/L	493.01	ppb	14:29:10
1	Cu 324.752†	95963.1	95615.2	503.84	µg/L	503.84	ppb	14:29:10
1	Mn 257.610†	291856.0	297564.4	491.20	µg/L	491.20	ppb	14:29:10
1	Mo 202.031†	4125.8	4200.8	497.30	µg/L	497.30	ppb	14:29:30
1	Ni 231.604†	12415.2	12788.1	479.57	µg/L	479.57	ppb	14:29:30
1	P 214.914†	2568.0	2567.3	2413.0	µg/L	2413.0	ppb	14:29:30
1	Pb 220.353†	2612.8	2496.6	492.78	µg/L	492.78	ppb	14:29:30
1	S 181.975 Axial†	392.2	348.1	961.92	µg/L	961.92	ppb	14:29:30
1	Sb 206.836†	971.7	928.3	487.14	µg/L	487.14	ppb	14:29:30
1	Se 196.026†	190.0	244.3	474.97	µg/L	474.97	ppb	14:29:30
1	SiO2†	42432.9	42130.9	5323.0	µg/L	5323.0	ppb	14:29:10
1	Si 251.611†	43286.5	43894.9	2450.2	µg/L	2450.2	ppb	14:29:10
1	Sn 189.927†	1577.0	1586.9	488.85	µg/L	488.85	ppb	14:29:30
1	Ti 334.940†	180385.0	184643.4	505.03	µg/L	505.03	ppb	14:29:10
1	Tl 190.801†	936.4	982.2	494.15	µg/L	494.15	ppb	14:29:30
1	U 367.007†	1937.5	1440.3	453.4	µg/L	453.4	ppb	14:29:10
1	V 292.402†	47660.6	48581.5	499.04	µg/L	499.04	ppb	14:29:10
1	Zn 213.857†	36192.6	36238.3	488.74	µg/L	488.74	ppb	14:29:10
2	Sc RADIAL	6185.6	6185.6	96.1	%			14:28:33
2	Al 396.153Radial†	4534.4	4892.0	5068.7	µg/L	5068.7	ppb	14:28:13
2	Ca 317.933Radial†	4981.0	5134.2	4940.6	µg/L	4940.6	ppb	14:28:33
2	Fe 238.204 Radial†	4633.4	4779.5	5142.1	µg/L	5142.1	ppb	14:28:33
2	K 766.490 Radial†	6377.5	5972.1	5180.4	µg/L	5180.4	ppb	14:28:13
2	Mg 279.077 IEC†	643.9	661.4	5192.9	µg/L	5192.9	ppb	14:28:33
2	Na 589.592 Radial†	1744.0	1997.1	11801	µg/L	11801	ppb	14:28:13
2	Sr 421.552†	32950.2	35160.4	516.56	µg/L	516.56	ppb	14:28:13
2	Sc 361.383	558148.7	558148.7	98.462	%			14:29:35
2	Y 371.029	498707.8	498707.8	95.761	%			14:29:35
2	Ag 328.068†	71404.4	72766.8	504.39	µg/L	504.39	ppb	14:29:40
2	As 188.979†	553.1	574.1	477.70	µg/L	477.70	ppb	14:30:01
2	B 249.677†	14466.6	14466.6	482.45	µg/L	482.45	ppb	14:29:40
2	Ba 233.527†	45345.1	46107.7	489.84	µg/L	489.84	ppb	14:29:40
2	Be 313.107†	897737.9	917271.8	491.09	µg/L	491.09	ppb	14:29:35
2	Cd 226.502†	29201.1	29815.7	481.90	µg/L	481.90	ppb	14:29:40
2	Co 228.616†	16039.1	16405.0	490.09	µg/L	490.09	ppb	14:29:40
2	Cr 267.716†	22671.6	22944.8	492.60	µg/L	492.60	ppb	14:29:40
2	Cu 324.752†	95836.1	94978.6	500.49	µg/L	500.49	ppb	14:29:40
2	Mn 257.610†	291555.6	295715.4	488.15	µg/L	488.15	ppb	14:29:40
2	Mo 202.031†	4121.4	4174.5	494.19	µg/L	494.19	ppb	14:30:01
2	Ni 231.604†	12416.5	12723.8	477.16	µg/L	477.16	ppb	14:30:01
2	P 214.914†	2574.7	2560.6	2406.7	µg/L	2406.7	ppb	14:30:01
2	Pb 220.353†	2603.2	2473.1	488.08	µg/L	488.08	ppb	14:30:01

2	S 181.975 Axial†	392.3	346.2	956.62 µg/L	956.62 ppb	14:30:01
2	Sb 206.836†	966.2	917.6	481.44 µg/L	481.44 ppb	14:30:01
2	Se 196.026†	200.0	253.4	492.36 µg/L	492.36 ppb	14:30:01
2	SiO2†	42420.2	41893.5	5293.0 µg/L	5293.0 ppb	14:29:40
2	Si 251.611†	43335.2	43715.3	2440.2 µg/L	2440.2 ppb	14:29:40
2	Sn 189.927†	1573.6	1575.1	485.23 µg/L	485.23 ppb	14:30:01
2	Ti 334.940†	180002.0	183300.1	501.36 µg/L	501.36 ppb	14:29:40
2	Tl 190.801†	941.5	982.4	494.24 µg/L	494.24 ppb	14:30:01
2	U 367.007†	1928.4	1420.8	446.8 µg/L	446.8 ppb	14:29:40
2	V 292.402†	47756.1	48426.3	497.43 µg/L	497.43 ppb	14:29:40
2	Zn 213.857†	36126.9	35980.1	485.25 µg/L	485.25 ppb	14:29:40
3	Sc RADIAL	6161.1	6161.1	95.8 %		14:28:58
3	Al 396.153Radial†	4518.1	4893.7	5070.4 µg/L	5070.4 ppb	14:28:38
3	Ca 317.933Radial†	4965.1	5138.2	4944.5 µg/L	4944.5 ppb	14:28:58
3	Fe 238.204 Radial†	4633.1	4798.5	5162.4 µg/L	5162.4 ppb	14:28:58
3	K 766.490 Radial†	6427.9	6051.1	5248.9 µg/L	5248.9 ppb	14:28:38
3	Mg 279.077 IEC†	645.8	666.1	5229.7 µg/L	5229.7 ppb	14:28:58
3	Na 589.592 Radial†	1769.8	2031.3	12003 µg/L	12003 ppb	14:28:38
3	Sr 421.552†	32862.6	35205.4	517.22 µg/L	517.22 ppb	14:28:38
3	Sc 361.383	558919.8	558919.8	98.598 %		14:30:06
3	Y 371.029	498843.5	498843.5	95.787 %		14:30:06
3	Ag 328.068†	71932.1	73201.9	507.40 µg/L	507.40 ppb	14:30:11
3	As 188.979†	567.6	588.1	489.29 µg/L	489.29 ppb	14:30:31
3	B 249.677†	14582.0	14563.4	485.67 µg/L	485.67 ppb	14:30:11
3	Ba 233.527†	45734.3	46438.9	493.35 µg/L	493.35 ppb	14:30:11
3	Be 313.107†	898507.9	916794.8	490.84 µg/L	490.84 ppb	14:30:06
3	Cd 226.502†	29491.3	30069.1	486.00 µg/L	486.00 ppb	14:30:11
3	Co 228.616†	16127.5	16472.2	492.09 µg/L	492.09 ppb	14:30:11
3	Cr 267.716†	22767.6	23010.4	494.00 µg/L	494.00 ppb	14:30:11
3	Cu 324.752†	96546.8	95565.1	503.58 µg/L	503.58 ppb	14:30:11
3	Mn 257.610†	293943.5	297728.7	491.47 µg/L	491.47 ppb	14:30:11
3	Mo 202.031†	4130.1	4177.5	494.54 µg/L	494.54 ppb	14:30:31
3	Ni 231.604†	12483.5	12774.3	479.05 µg/L	479.05 ppb	14:30:31
3	P 214.914†	2576.9	2559.2	2405.4 µg/L	2405.4 ppb	14:30:31
3	Pb 220.353†	2621.1	2487.6	490.94 µg/L	490.94 ppb	14:30:31
3	S 181.975 Axial†	389.8	343.0	948.01 µg/L	948.01 ppb	14:30:31
3	Sb 206.836†	973.0	923.1	484.33 µg/L	484.33 ppb	14:30:31
3	Se 196.026†	185.2	238.2	463.38 µg/L	463.38 ppb	14:30:31
3	SiO2†	42752.3	42170.9	5327.2 µg/L	5327.2 ppb	14:30:11
3	Si 251.611†	43662.4	43986.5	2455.0 µg/L	2455.0 ppb	14:30:11
3	Sn 189.927†	1576.2	1575.6	485.37 µg/L	485.37 ppb	14:30:31
3	Ti 334.940†	181188.8	184251.6	503.96 µg/L	503.96 ppb	14:30:11
3	Tl 190.801†	938.7	978.2	492.16 µg/L	492.16 ppb	14:30:31
3	U 367.007†	1955.7	1445.9	455.0 µg/L	455.0 ppb	14:30:11
3	V 292.402†	48048.6	48656.0	499.77 µg/L	499.77 ppb	14:30:11
3	Zn 213.857†	36427.1	36233.9	488.68 µg/L	488.68 ppb	14:30:11

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	557441.7	98.337	%	0.3407				0.35%
Sc RADIAL	6176.0	96.0	%	0.20				0.21%
Y 371.029	497751.6	95.577	%	0.3408				0.36%
Ag 328.068†	73003.4	506.02	µg/L	1.521	506.02	ppb	1.521	0.30%
QC value within limits for Ag 328.068 Recovery = 101.20%								
Al 396.153Radial†	4863.3	5038.6	µg/L	53.64	5038.6	ppb	53.64	1.06%
QC value within limits for Al 396.153Radial Recovery = 100.77%								
As 188.979†	585.9	487.50	µg/L	9.036	487.50	ppb	9.036	1.85%
QC value within limits for As 188.979 Recovery = 97.50%								
B 249.677†	14538.4	484.85	µg/L	2.106	484.85	ppb	2.106	0.43%
QC value within limits for B 249.677 Recovery = 96.97%								
Ba 233.527†	46333.8	492.24	µg/L	2.081	492.24	ppb	2.081	0.42%
QC value within limits for Ba 233.527 Recovery = 98.45%								
Be 313.107†	917590.6	491.26	µg/L	0.532	491.26	ppb	0.532	0.11%
QC value within limits for Be 313.107 Recovery = 98.25%								
Ca 317.933Radial†	5132.5	4939.0	µg/L	6.52	4939.0	ppb	6.52	0.13%
QC value within limits for Ca 317.933Radial Recovery = 98.78%								
Cd 226.502†	29953.2	484.13	µg/L	2.071	484.13	ppb	2.071	0.43%
QC value within limits for Cd 226.502 Recovery = 96.83%								
Co 228.616†	16448.6	491.39	µg/L	1.129	491.39	ppb	1.129	0.23%

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   QC value within limits for Co 228.616  Recovery = 98.28%
Cr 267.716†            22973.1      493.20 µg/L         0.722      493.20 ppb          0.722   0.15%
   QC value within limits for Cr 267.716  Recovery = 98.64%
Cu 324.752†            95386.3      502.64 µg/L         1.866      502.64 ppb          1.866   0.37%
   QC value within limits for Cu 324.752  Recovery = 100.53%
Fe 238.204 Radial†      4780.8      5143.4 µg/L         18.34      5143.4 ppb          18.34   0.36%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.87%
K 766.490 Radial†       6008.7      5212.1 µg/L         34.54      5212.1 ppb          34.54   0.66%
   QC value within limits for K 766.490 Radial  Recovery = 104.24%
Mg 279.077 IEC†          659.5      5177.9 µg/L         60.69      5177.9 ppb          60.69   1.17%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.56%
Mn 257.610†           297002.8      490.27 µg/L         1.845      490.27 ppb          1.845   0.38%
   QC value within limits for Mn 257.610  Recovery = 98.05%
Mo 202.031†             4184.3      495.34 µg/L         1.704      495.34 ppb          1.704   0.34%
   QC value within limits for Mo 202.031  Recovery = 99.07%
Na 589.592 Radial†      2003.4       11838 µg/L         150.1       11838 ppb          150.1   1.27%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 118.38%
Ni 231.604†            12762.1      478.59 µg/L         1.269      478.59 ppb          1.269   0.27%
   QC value within limits for Ni 231.604  Recovery = 95.72%
P 214.914†              2562.4      2408.4 µg/L          4.08      2408.4 ppb           4.08   0.17%
   QC value within limits for P 214.914  Recovery = 96.34%
Pb 220.353†             2485.8      490.60 µg/L         2.371      490.60 ppb          2.371   0.48%
   QC value within limits for Pb 220.353  Recovery = 98.12%
S 181.975 Axial†         345.8      955.51 µg/L         7.019      955.51 ppb          7.019   0.73%
   QC value within limits for S 181.975 Axial  Recovery = 95.55%
Sb 206.836†              923.0      484.30 µg/L         2.849      484.30 ppb          2.849   0.59%
   QC value within limits for Sb 206.836  Recovery = 96.86%
Se 196.026†              245.3      476.90 µg/L        14.588      476.90 ppb         14.588   3.06%
   QC value within limits for Se 196.026  Recovery = 95.38%
SiO2†                  42065.1      5314.4 µg/L         18.64      5314.4 ppb          18.64   0.35%
   QC value within limits for SiO2  Recovery = 99.38%
Si 251.611†            43865.6      2448.5 µg/L          7.54      2448.5 ppb           7.54   0.31%
   QC value within limits for Si 251.611  Recovery = 97.94%
Sn 189.927†             1579.2      486.48 µg/L         2.051      486.48 ppb          2.051   0.42%
   QC value within limits for Sn 189.927  Recovery = 97.30%
Sr 421.552†            35047.8      514.90 µg/L         3.453      514.90 ppb          3.453   0.67%
   QC value within limits for Sr 421.552  Recovery = 102.98%
Ti 334.940†           184065.0      503.45 µg/L         1.889      503.45 ppb          1.889   0.38%
   QC value within limits for Ti 334.940  Recovery = 100.69%
Tl 190.801†              980.9      493.52 µg/L         1.177      493.52 ppb          1.177   0.24%
   QC value within limits for Tl 190.801  Recovery = 98.70%
U 367.007†              1435.7       451.7 µg/L          4.36       451.7 ppb           4.36   0.97%
   QC value within limits for U 367.007  Recovery = 90.34%
V 292.402†             48554.6      498.75 µg/L         1.197      498.75 ppb          1.197   0.24%
   QC value within limits for V 292.402  Recovery = 99.75%
Zn 213.857†            36150.8      487.56 µg/L         2.000      487.56 ppb          2.000   0.41%
   QC value within limits for Zn 213.857  Recovery = 97.51%
QC Failed.  Continue with analysis.
```

==========

Sequence No.: 23 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/5/2013 14:30:39**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	6296.8	6296.8	97.9	%			14:31:07
1	Al 396.153Radial†	-154.4	17.6	18.391	µg/L	18.391	ppb	14:31:07
1	Ca 317.933Radial†	50.9	5.1	4.9291	µg/L	4.9291	ppb	14:31:27
1	Fe 238.204 Radial†	46.5	7.5	8.0496	µg/L	8.0496	ppb	14:31:27
1	K 766.490 Radial†	801.0	156.8	136.13	µg/L	136.13	ppb	14:31:07
1	Mg 279.077 IEC†	15.6	7.7	60.197	µg/L	60.197	ppb	14:31:27
1	Na 589.592 Radial†	-125.1	55.2	326.41	µg/L	326.41	ppb	14:31:07
1	Sr 421.552†	-883.1	-16.2	-0.2378	µg/L	-0.2378	ppb	14:31:07
1	Sc 361.383	546356.1	546356.1	96.381	%			14:32:24
1	Y 371.029	502761.5	502761.5	96.539	%			14:32:24
1	Ag 328.068†	-205.8	33.4	0.2322	µg/L	0.2322	ppb	14:32:24
1	As 188.979†	-17.6	-5.9	-4.8685	µg/L	-4.8685	ppb	14:32:44
1	B 249.677†	308.9	94.5	3.1107	µg/L	3.1107	ppb	14:32:24
1	Ba 233.527†	-62.2	-10.4	-0.1107	µg/L	-0.1107	ppb	14:32:44
1	Be 313.107†	-5243.7	67.7	0.0340	µg/L	0.0340	ppb	14:32:24
1	Cd 226.502†	-146.7	6.2	0.0992	µg/L	0.0992	ppb	14:32:44
1	Co 228.616†	-114.1	-3.0	-0.0902	µg/L	-0.0902	ppb	14:32:44
1	Cr 267.716†	87.8	10.1	0.2255	µg/L	0.2255	ppb	14:32:44
1	Cu 324.752†	2342.7	75.8	0.3927	µg/L	0.3927	ppb	14:32:24
1	Mn 257.610†	415.0	35.3	0.0569	µg/L	0.0569	ppb	14:32:24
1	Mo 202.031†	11.2	0.3	0.0339	µg/L	0.0339	ppb	14:32:44
1	Ni 231.604†	-90.5	19.4	0.7295	µg/L	0.7295	ppb	14:32:44
1	P 214.914†	72.7	21.1	19.951	µg/L	19.951	ppb	14:32:44
1	Pb 220.353†	148.4	-16.8	-3.3241	µg/L	-3.3241	ppb	14:32:44
1	S 181.975 Axial†	49.1	-1.3	-3.6453	µg/L	-3.6453	ppb	14:32:44
1	Sb 206.836†	63.4	2.0	1.0557	µg/L	1.0557	ppb	14:32:44
1	Se 196.026†	-50.5	-2.1	-3.9910	µg/L	-3.9910	ppb	14:32:44
1	SiO2†	1514.4	381.8	45.774	µg/L	45.774	ppb	14:32:24
1	Si 251.611†	592.4	317.7	16.730	µg/L	16.730	ppb	14:32:44
1	Sn 189.927†	18.7	-3.6	-1.1173	µg/L	-1.1173	ppb	14:32:44
1	Ti 334.940†	-405.5	65.2	0.1834	µg/L	0.1834	ppb	14:32:24
1	Tl 190.801†	-29.2	-4.1	-2.0619	µg/L	-2.0619	ppb	14:32:44
1	U 367.007†	485.0	-34.4	-11.50	µg/L	-11.50	ppb	14:32:24
1	V 292.402†	84.7	11.9	0.1125	µg/L	0.1125	ppb	14:32:24
1	Zn 213.857†	676.9	-8.9	-0.1275	µg/L	-0.1275	ppb	14:32:44
2	Sc RADIAL	6303.4	6303.4	98.0	%			14:31:32
2	Al 396.153Radial†	-162.1	9.8	10.228	µg/L	10.228	ppb	14:31:32
2	Ca 317.933Radial†	46.4	0.4	0.4201	µg/L	0.4201	ppb	14:31:52
2	Fe 238.204 Radial†	36.5	-2.7	-2.9433	µg/L	-2.9433	ppb	14:31:52
2	K 766.490 Radial†	793.7	148.6	128.95	µg/L	128.95	ppb	14:31:32
2	Mg 279.077 IEC†	13.6	5.6	43.723	µg/L	43.723	ppb	14:31:52
2	Na 589.592 Radial†	-114.7	66.0	390.05	µg/L	390.05	ppb	14:31:32
2	Sr 421.552†	-818.9	50.2	0.7378	µg/L	0.7378	ppb	14:31:32
2	Sc 361.383	538621.0	538621.0	95.017	%			14:32:49
2	Y 371.029	497174.8	497174.8	95.466	%			14:32:49
2	Ag 328.068†	-271.3	-38.7	-0.2675	µg/L	-0.2675	ppb	14:32:49
2	As 188.979†	-15.4	-3.9	-3.2137	µg/L	-3.2137	ppb	14:33:09
2	B 249.677†	269.0	57.1	1.8577	µg/L	1.8577	ppb	14:32:49
2	Ba 233.527†	-75.3	-25.1	-0.2664	µg/L	-0.2664	ppb	14:33:09
2	Be 313.107†	-5187.3	48.9	0.0233	µg/L	0.0233	ppb	14:32:49
2	Cd 226.502†	-136.8	14.5	0.2347	µg/L	0.2347	ppb	14:33:09
2	Co 228.616†	-110.4	-0.8	-0.0232	µg/L	-0.0232	ppb	14:33:09
2	Cr 267.716†	79.4	2.6	0.0655	µg/L	0.0655	ppb	14:33:09
2	Cu 324.752†	2299.5	65.3	0.3346	µg/L	0.3346	ppb	14:32:49
2	Mn 257.610†	391.5	16.7	0.0258	µg/L	0.0258	ppb	14:32:49
2	Mo 202.031†	19.7	9.5	1.1193	µg/L	1.1193	ppb	14:33:09
2	Ni 231.604†	-100.1	8.0	0.2987	µg/L	0.2987	ppb	14:33:09
2	P 214.914†	74.1	23.7	22.357	µg/L	22.357	ppb	14:33:09
2	Pb 220.353†	175.1	13.5	2.6666	µg/L	2.6666	ppb	14:33:09

2	S 181.975 Axial†	46.4	-3.5	-9.4623	µg/L	-9.4623	ppb	14:33:09
2	Sb 206.836†	55.1	-5.7	-3.0050	µg/L	-3.0050	ppb	14:33:09
2	Se 196.026†	-26.7	22.2	42.152	µg/L	42.152	ppb	14:33:09
2	SiO2†	1456.3	343.2	40.969	µg/L	40.969	ppb	14:32:49
2	Si 251.611†	555.6	287.8	15.083	µg/L	15.083	ppb	14:33:09
2	Sn 189.927†	25.9	4.2	1.2761	µg/L	1.2761	ppb	14:33:09
2	Ti 334.940†	-406.0	58.7	0.1669	µg/L	0.1669	ppb	14:32:49
2	Tl 190.801†	-25.4	-0.6	-0.2888	µg/L	-0.2888	ppb	14:33:09
2	U 367.007†	470.3	-42.7	-14.20	µg/L	-14.20	ppb	14:32:49
2	V 292.402†	55.2	-17.8	-0.1787	µg/L	-0.1787	ppb	14:32:49
2	Zn 213.857†	679.8	4.2	0.0548	µg/L	0.0548	ppb	14:33:09
3	Sc RADIAL	6304.0	6304.0	98.0	%			14:31:57
3	Al 396.153Radial†	-150.2	22.0	22.983	µg/L	22.983	ppb	14:31:57
3	Ca 317.933Radial†	50.2	4.3	4.1654	µg/L	4.1654	ppb	14:32:17
3	Fe 238.204 Radial†	39.8	0.6	0.7009	µg/L	0.7009	ppb	14:32:17
3	K 766.490 Radial†	840.1	195.8	170.04	µg/L	170.04	ppb	14:31:57
3	Mg 279.077 IEC†	13.8	5.8	45.483	µg/L	45.483	ppb	14:32:17
3	Na 589.592 Radial†	-119.5	61.1	361.02	µg/L	361.02	ppb	14:31:57
3	Sr 421.552†	-867.2	1.1	0.0155	µg/L	0.0155	ppb	14:31:57
3	Sc 361.383	540180.6	540180.6	95.292	%			14:33:15
3	Y 371.029	497475.7	497475.7	95.524	%			14:33:15
3	Ag 328.068†	-349.7	-120.1	-0.8294	µg/L	-0.8294	ppb	14:33:15
3	As 188.979†	-19.2	-7.7	-6.4186	µg/L	-6.4186	ppb	14:33:35
3	B 249.677†	290.9	79.3	2.5810	µg/L	2.5810	ppb	14:33:15
3	Ba 233.527†	-68.9	-18.1	-0.1935	µg/L	-0.1935	ppb	14:33:35
3	Be 313.107†	-5170.4	82.4	0.0475	µg/L	0.0475	ppb	14:33:15
3	Cd 226.502†	-141.1	10.3	0.1676	µg/L	0.1676	ppb	14:33:35
3	Co 228.616†	-91.3	19.6	0.5856	µg/L	0.5856	ppb	14:33:35
3	Cr 267.716†	77.3	0.1	-0.0076	µg/L	-0.0076	ppb	14:33:35
3	Cu 324.752†	2216.9	-28.3	-0.1396	µg/L	-0.1396	ppb	14:33:15
3	Mn 257.610†	436.1	62.4	0.1014	µg/L	0.1014	ppb	14:33:15
3	Mo 202.031†	14.3	3.7	0.4372	µg/L	0.4372	ppb	14:33:35
3	Ni 231.604†	-95.4	13.2	0.4939	µg/L	0.4939	ppb	14:33:35
3	P 214.914†	60.6	9.2	8.7168	µg/L	8.7168	ppb	14:33:35
3	Pb 220.353†	151.2	-12.1	-2.4020	µg/L	-2.4020	ppb	14:33:35
3	S 181.975 Axial†	53.1	3.5	9.5894	µg/L	9.5894	ppb	14:33:35
3	Sb 206.836†	68.5	8.2	4.3293	µg/L	4.3293	ppb	14:33:35
3	Se 196.026†	-36.7	11.8	22.547	µg/L	22.547	ppb	14:33:35
3	SiO2†	1372.7	251.1	28.477	µg/L	28.477	ppb	14:33:15
3	Si 251.611†	519.8	248.6	12.413	µg/L	12.413	ppb	14:33:35
3	Sn 189.927†	24.6	2.7	0.8329	µg/L	0.8329	ppb	14:33:35
3	Ti 334.940†	-533.6	-74.1	-0.2106	µg/L	-0.2106	ppb	14:33:15
3	Tl 190.801†	-33.2	-8.7	-4.3266	µg/L	-4.3266	ppb	14:33:35
3	U 367.007†	559.4	49.4	16.42	µg/L	16.42	ppb	14:33:15
3	V 292.402†	0.5	-75.4	-0.7451	µg/L	-0.7451	ppb	14:33:15
3	Zn 213.857†	685.5	8.1	0.1065	µg/L	0.1065	ppb	14:33:35

Mean Data: CCB

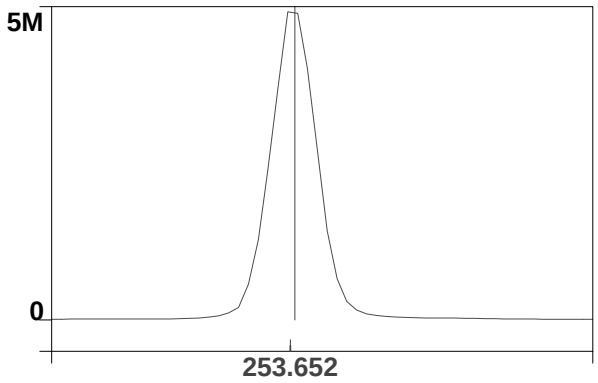
Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	541719.2	95.563	%	0.7216				0.76%
Sc RADIAL	6301.4	97.9	%	0.06				0.06%
Y 371.029	499137.3	95.843	%	0.6034				0.63%
Ag 328.068†	-41.8	-0.2882	µg/L	0.53112	-0.2882	ppb	0.53112	184.26%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	16.5	17.200	µg/L	6.4603	17.200	ppb	6.4603	37.56%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-5.8	-4.8336	µg/L	1.60277	-4.8336	ppb	1.60277	33.16%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	77.0	2.5165	µg/L	0.62901	2.5165	ppb	0.62901	25.00%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-17.9	-0.1902	µg/L	0.07793	-0.1902	ppb	0.07793	40.98%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	66.4	0.0349	µg/L	0.01216	0.0349	ppb	0.01216	34.82%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.3	3.1715	µg/L	2.41325	3.1715	ppb	2.41325	76.09%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	10.3	0.1672	µg/L	0.06773	0.1672	ppb	0.06773	40.52%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	5.2	0.1574	µg/L	0.37235	0.1574	ppb	0.37235	236.55%

```
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                4.3      0.0945 µg/L       0.11925      0.0945 ppb        0.11925 126.24%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               37.6      0.1959 µg/L       0.29203      0.1959 ppb        0.29203 149.08%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.8      1.9357 µg/L       5.59956      1.9357 ppb        5.59956 289.27%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        167.1      145.04 µg/L        21.944      145.04 ppb         21.944  15.13%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            6.3      49.801 µg/L        9.0464      49.801 ppb         9.0464  18.17%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               38.2      0.0614 µg/L       0.03799      0.0614 ppb        0.03799  61.90%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                4.5      0.5301 µg/L       0.54863      0.5301 ppb        0.54863 103.49%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        60.8      359.16 µg/L        31.864      359.16 ppb         31.864   8.87%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               13.5      0.5073 µg/L       0.21571      0.5073 ppb        0.21571  42.52%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                18.0      17.008 µg/L        7.2807      17.008 ppb         7.2807  42.81%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -5.1     -1.0198 µg/L       3.22563     -1.0198 ppb        3.22563 316.30%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -0.4     -1.1727 µg/L       9.76355     -1.1727 ppb        9.76355 832.55%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                1.5      0.7933 µg/L       3.67416      0.7933 ppb        3.67416 463.13%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               10.6      20.236 µg/L       23.1581      20.236 ppb        23.1581 114.44%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    325.4      38.407 µg/L        8.9284      38.407 ppb         8.9284  23.25%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              284.7      14.742 µg/L        2.1783      14.742 ppb         2.1783  14.78%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                1.1      0.3305 µg/L       1.27331      0.3305 ppb        1.27331 385.21%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               11.7      0.1718 µg/L       0.50624      0.1718 ppb        0.50624 294.59%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               16.6      0.0466 µg/L       0.22284      0.0466 ppb        0.22284 478.50%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -4.4     -2.2258 µg/L       2.02389     -2.2258 ppb        2.02389  90.93%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -9.3      -3.096 µg/L       16.9518      -3.096 ppb        16.9518 547.50%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -27.1     -0.2704 µg/L       0.43612     -0.2704 ppb        0.43612 161.27%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                1.1      0.0113 µg/L       0.12295      0.0113 ppb        0.12295 >999.9%
   QC value within limits for Zn 213.857  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Method: Hg_ReAlign
Result: 110613

Sample ID: Hg_ReAlign

Hg 253.652 **Rep: 1**



Intensity: 4528999.0 cps
Conc:

1

==========
11/6/2013 06:47:31 Hg ReAlign... Actual peak offset (nm): -0.002
Drift (nm): -0.000 Slit adjustment: 3
==========

==========
Analysis Begun

Start Time: 11/6/2013 06:50:51 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110613.sif
Batch ID:
Results Data Set: 110613
Results Library: C:\pe\optima4\Results\Results.mdb

==========
Method Loaded
Method Name: Gen Eng fast_new SiU **Method Last Saved: 11/6/2013 06:04:26**
IEC File: 101613.iec **MSF File:**
Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
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
SiO2	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 367.007	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

==========
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: S0 **Date Collected: 11/6/2013 06:50:53**
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	23933.3	23933.3	101	%	06:51:46
1	Al 396.153Radial†	-107.5	-106.7	[0.00]	µg/L	06:51:46
1	Ca 317.933Radial†	92.5	91.7	[0.00]	µg/L	06:52:06
1	Fe 238.204 Radial†	32.9	32.6	[0.00]	µg/L	06:52:06
1	K 766.490 Radial†	740.0	734.1	[0.00]	µg/L	06:51:46
1	Mg 279.077 IEC†	8.8	8.7	[0.00]	µg/L	06:52:06
1	Na 589.592 Radial†	-61.3	-60.8	[0.00]	µg/L	06:51:46
1	Sr 421.552†	34.6	34.3	[0.00]	µg/L	06:51:46
1	Sc 361.383	1344355.7	1344355.7	103.92	%	06:53:44
1	Y 371.029	793896.8	793896.8	103.95	%	06:53:44
1	Ag 328.068†	475.2	457.3	[0.00]	µg/L	06:53:46
1	As 188.979†	-6.4	-6.2	[0.00]	µg/L	06:54:06
1	B 249.677†	215.0	206.9	[0.00]	µg/L	06:53:46
1	Ba 233.527†	-103.8	-99.9	[0.00]	µg/L	06:54:06
1	Be 313.107†	-8160.9	-7853.5	[0.00]	µg/L	06:53:46
1	Cd 226.502†	-99.8	-96.0	[0.00]	µg/L	06:54:06
1	Co 228.616†	-92.9	-89.4	[0.00]	µg/L	06:54:06
1	Cr 267.716†	127.8	123.0	[0.00]	µg/L	06:54:06
1	Cu 324.752†	4336.4	4173.1	[0.00]	µg/L	06:53:46
1	Mn 257.610†	204.2	196.5	[0.00]	µg/L	06:54:06
1	Mo 202.031†	-5.4	-5.2	[0.00]	µg/L	06:54:06
1	Ni 231.604†	-49.5	-47.6	[0.00]	µg/L	06:54:06
1	P 214.914†	-64.7	-62.3	[0.00]	µg/L	06:54:06
1	Pb 220.353†	104.1	100.2	[0.00]	µg/L	06:54:06
1	S 181.975 Axial†	30.6	29.4	[0.00]	µg/L	06:54:06
1	Sb 206.836†	2.4	2.3	[0.00]	µg/L	06:54:06
1	Se 196.026†	6.4	6.1	[0.00]	µg/L	06:54:06
1	SiO2†	1961.3	1887.4	[0.00]	µg/L	06:53:46
1	Si 251.611†	422.5	406.5	[0.00]	µg/L	06:54:06
1	Sn 189.927†	8.3	8.0	[0.00]	µg/L	06:54:06
1	Ti 334.940†	1428.8	1374.9	[0.00]	µg/L	06:53:46
1	Tl 190.801†	-19.3	-18.6	[0.00]	µg/L	06:54:06
1	U 367.007†	313.0	301.2	[0.00]	µg/L	06:53:46
1	V 292.402†	342.3	329.5	[0.00]	µg/L	06:53:46
1	Zn 213.857†	553.2	532.4	[0.00]	µg/L	06:54:06
2	Sc RADIAL	23575.9	23575.9	99.3	%	06:52:26
2	Al 396.153Radial†	-104.1	-104.9	[0.00]	µg/L	06:52:26
2	Ca 317.933Radial†	73.4	73.9	[0.00]	µg/L	06:52:46
2	Fe 238.204 Radial†	34.1	34.4	[0.00]	µg/L	06:52:46
2	K 766.490 Radial†	701.5	706.4	[0.00]	µg/L	06:52:26
2	Mg 279.077 IEC†	-4.3	-4.3	[0.00]	µg/L	06:52:46
2	Na 589.592 Radial†	-39.8	-40.1	[0.00]	µg/L	06:52:26
2	Sr 421.552†	22.6	22.8	[0.00]	µg/L	06:52:26
2	Sc 361.383	1350032.8	1350032.8	104.35	%	06:54:08
2	Y 371.029	796793.0	796793.0	104.33	%	06:54:08
2	Ag 328.068†	686.8	658.2	[0.00]	µg/L	06:54:10
2	As 188.979†	-1.1	-1.1	[0.00]	µg/L	06:54:30
2	B 249.677†	268.3	257.1	[0.00]	µg/L	06:54:10
2	Ba 233.527†	-79.8	-76.5	[0.00]	µg/L	06:54:30
2	Be 313.107†	-8061.8	-7725.4	[0.00]	µg/L	06:54:10
2	Cd 226.502†	-102.1	-97.8	[0.00]	µg/L	06:54:30
2	Co 228.616†	-105.0	-100.6	[0.00]	µg/L	06:54:30
2	Cr 267.716†	98.2	94.1	[0.00]	µg/L	06:54:30
2	Cu 324.752†	4215.7	4039.8	[0.00]	µg/L	06:54:10
2	Mn 257.610†	187.0	179.2	[0.00]	µg/L	06:54:30
2	Mo 202.031†	-8.5	-8.2	[0.00]	µg/L	06:54:30
2	Ni 231.604†	-66.9	-64.1	[0.00]	µg/L	06:54:30
2	P 214.914†	-68.0	-65.1	[0.00]	µg/L	06:54:30
2	Pb 220.353†	119.5	114.5	[0.00]	µg/L	06:54:30
2	S 181.975 Axial†	31.4	30.1	[0.00]	µg/L	06:54:30
2	Sb 206.836†	7.1	6.8	[0.00]	µg/L	06:54:30
2	Se 196.026†	17.9	17.2	[0.00]	µg/L	06:54:30
2	SiO2†	2015.6	1931.5	[0.00]	µg/L	06:54:10
2	Si 251.611†	370.1	354.7	[0.00]	µg/L	06:54:30
2	Sn 189.927†	-3.2	-3.1	[0.00]	µg/L	06:54:30
2	Ti 334.940†	1633.7	1565.6	[0.00]	µg/L	06:54:10
2	Tl 190.801†	-19.2	-18.4	[0.00]	µg/L	06:54:30
2	U 367.007†	342.7	328.4	[0.00]	µg/L	06:54:10
2	V 292.402†	405.3	388.4	[0.00]	µg/L	06:54:10
2	Zn 213.857†	551.9	528.9	[0.00]	µg/L	06:54:30
3	Sc RADIAL	23719.2	23719.2	99.9	%	06:53:06

3	Al 396.153Radial†	-112.3	-112.4	[0.00]	µg/L	06:53:06
3	Ca 317.933Radial†	81.6	81.7	[0.00]	µg/L	06:53:26
3	Fe 238.204 Radial†	32.0	32.0	[0.00]	µg/L	06:53:26
3	K 766.490 Radial†	716.8	717.5	[0.00]	µg/L	06:53:06
3	Mg 279.077 IEC†	5.0	5.0	[0.00]	µg/L	06:53:26
3	Na 589.592 Radial†	-45.0	-45.1	[0.00]	µg/L	06:53:06
3	Sr 421.552†	23.4	23.5	[0.00]	µg/L	06:53:06
3	Sc 361.383	1186725.8	1186725.8	91.731	%	06:54:32
3	Y 371.029	700570.7	700570.7	91.727	%	06:54:32
3	Ag 328.068†	834.9	910.2	[0.00]	µg/L	06:54:34
3	As 188.979†	-3.3	-3.7	[0.00]	µg/L	06:54:54
3	B 249.677†	337.3	367.7	[0.00]	µg/L	06:54:34
3	Ba 233.527†	-79.5	-86.6	[0.00]	µg/L	06:54:54
3	Be 313.107†	-7526.7	-8205.2	[0.00]	µg/L	06:54:34
3	Cd 226.502†	-110.5	-120.5	[0.00]	µg/L	06:54:54
3	Co 228.616†	-104.8	-114.3	[0.00]	µg/L	06:54:54
3	Cr 267.716†	113.0	123.2	[0.00]	µg/L	06:54:54
3	Cu 324.752†	3961.8	4318.9	[0.00]	µg/L	06:54:34
3	Mn 257.610†	184.1	200.7	[0.00]	µg/L	06:54:54
3	Mo 202.031†	-19.9	-21.7	[0.00]	µg/L	06:54:54
3	Ni 231.604†	-59.9	-65.3	[0.00]	µg/L	06:54:54
3	P 214.914†	-61.1	-66.6	[0.00]	µg/L	06:54:54
3	Pb 220.353†	117.4	128.0	[0.00]	µg/L	06:54:54
3	S 181.975 Axial†	22.7	24.7	[0.00]	µg/L	06:54:54
3	Sb 206.836†	4.1	4.5	[0.00]	µg/L	06:54:54
3	Se 196.026†	11.2	12.2	[0.00]	µg/L	06:54:54
3	SiO2†	1828.9	1993.8	[0.00]	µg/L	06:54:34
3	Si 251.611†	383.1	417.6	[0.00]	µg/L	06:54:54
3	Sn 189.927†	-2.4	-2.6	[0.00]	µg/L	06:54:54
3	Ti 334.940†	1565.0	1706.1	[0.00]	µg/L	06:54:34
3	Tl 190.801†	-15.6	-17.0	[0.00]	µg/L	06:54:54
3	U 367.007†	228.1	248.6	[0.00]	µg/L	06:54:34
3	V 292.402†	174.7	190.5	[0.00]	µg/L	06:54:34
3	Zn 213.857†	540.8	589.5	[0.00]	µg/L	06:54:54

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1293704.7	92689.99	7.16%	100.00	%
Sc RADIAL	23742.8	179.86	0.76%	100.0	%
Y 371.029	763753.5	54737.09	7.17%	100.000	%
Ag 328.068†	675.2	226.92	33.61%	[0.00]	µg/L
Al 396.153Radial†	-108.0	3.95	3.66%	[0.00]	µg/L
As 188.979†	-3.6	2.55	69.96%	[0.00]	µg/L
B 249.677†	277.3	82.28	29.67%	[0.00]	µg/L
Ba 233.527†	-87.7	11.76	13.41%	[0.00]	µg/L
Be 313.107†	-7928.0	248.41	3.13%	[0.00]	µg/L
Ca 317.933Radial†	82.4	8.92	10.82%	[0.00]	µg/L
Cd 226.502†	-104.8	13.61	12.99%	[0.00]	µg/L
Co 228.616†	-101.4	12.44	12.26%	[0.00]	µg/L
Cr 267.716†	113.4	16.72	14.74%	[0.00]	µg/L
Cu 324.752†	4177.3	139.60	3.34%	[0.00]	µg/L
Fe 238.204 Radial†	33.0	1.22	3.70%	[0.00]	µg/L
K 766.490 Radial†	719.3	13.93	1.94%	[0.00]	µg/L
Mg 279.077 IEC†	3.1	6.72	215.42%	[0.00]	µg/L
Mn 257.610†	192.2	11.42	5.94%	[0.00]	µg/L
Mo 202.031†	-11.7	8.79	75.22%	[0.00]	µg/L
Na 589.592 Radial†	-48.6	10.81	22.21%	[0.00]	µg/L
Ni 231.604†	-59.0	9.88	16.75%	[0.00]	µg/L
P 214.914†	-64.7	2.18	3.37%	[0.00]	µg/L
Pb 220.353†	114.2	13.92	12.19%	[0.00]	µg/L
S 181.975 Axial†	28.1	2.92	10.40%	[0.00]	µg/L
Sb 206.836†	4.5	2.27	50.11%	[0.00]	µg/L
Se 196.026†	11.8	5.53	46.75%	[0.00]	µg/L
SiO2†	1937.6	53.45	2.76%	[0.00]	µg/L
Si 251.611†	392.9	33.60	8.55%	[0.00]	µg/L
Sn 189.927†	0.7	6.25	842.50%	[0.00]	µg/L
Sr 421.552†	26.8	6.45	24.02%	[0.00]	µg/L
Ti 334.940†	1548.9	166.23	10.73%	[0.00]	µg/L
Tl 190.801†	-18.0	0.87	4.82%	[0.00]	µg/L

U 367.007†	292.7	40.55	13.85%	[0.00] µg/L
V 292.402†	302.8	101.65	33.57%	[0.00] µg/L
Zn 213.857†	550.2	34.04	6.19%	[0.00] µg/L

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S0.1 **Date Collected: 11/6/2013 06:55:03**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	23708.9	23708.9	99.9	%	06:55:34
1	K 766.490 Radial†	1542.8	825.7	[1000]	µg/L	06:55:34
1	Sr 421.552†	8796.2	8781.9	[100]	µg/L	06:55:34
1	Sc 361.383	1376289.4	1376289.4	106.38	%	06:55:55
1	Y 371.029	807549.5	807549.5	105.73	%	06:55:55
1	Ag 328.068†	16432.9	14771.7	[100]	µg/L	06:55:57
1	As 188.979†	50.5	51.1	[100]	µg/L	06:56:17
1	B 249.677†	8883.8	8073.4	[100]	µg/L	06:55:57
1	Ba 233.527†	7509.9	7147.0	[100]	µg/L	06:55:57
1	Be 313.107†	240713.4	234197.3	[100]	µg/L	06:55:55
1	Cd 226.502†	6834.6	6529.3	[100]	µg/L	06:55:57
1	Co 228.616†	3587.5	3473.6	[100]	µg/L	06:56:17
1	Cr 267.716†	6023.5	5548.7	[100]	µg/L	06:55:57
1	Cu 324.752†	19638.3	14282.7	[100]	µg/L	06:55:57
1	Mn 257.610†	37345.9	34912.8	[100]	µg/L	06:55:57
1	Mo 202.031†	933.6	889.3	[100]	µg/L	06:56:17
1	Ni 231.604†	3586.0	3429.8	[100]	µg/L	06:55:57
1	P 214.914†	436.8	475.3	[500]	µg/L	06:56:17
1	Pb 220.353†	637.2	484.7	[100]	µg/L	06:56:17
1	S 181.975 Axial†	93.5	59.8	[200]	µg/L	06:56:17
1	Sb 206.836†	166.9	152.4	[100]	µg/L	06:56:17
1	Se 196.026†	101.3	83.4	[100]	µg/L	06:56:17
1	SiO2†	8159.5	5732.3	[1069.5]	µg/L	06:55:57
1	Si 251.611†	18533.9	17028.8	[500]	µg/L	06:55:57
1	Sn 189.927†	264.6	248.0	[100]	µg/L	06:56:17
1	Ti 334.940†	57908.1	52884.5	[100]	µg/L	06:55:57
1	Tl 190.801†	70.8	84.6	[100]	µg/L	06:56:17
1	U 367.007†	709.0	373.7	[100]	µg/L	06:55:57
1	V 292.402†	15230.9	14014.2	[100]	µg/L	06:55:57
1	Zn 213.857†	9006.7	7916.0	[100]	µg/L	06:55:57
2	Sc RADIAL	24177.6	24177.6	102	%	06:55:36
2	K 766.490 Radial†	1505.8	759.3	[1000]	µg/L	06:55:36
2	Sr 421.552†	8877.6	8691.1	[100]	µg/L	06:55:36
2	Sc 361.383	1350691.5	1350691.5	104.40	%	06:56:20
2	Y 371.029	792385.0	792385.0	103.75	%	06:56:20
2	Ag 328.068†	16449.4	15080.2	[100]	µg/L	06:56:22
2	As 188.979†	45.9	47.6	[100]	µg/L	06:56:42
2	B 249.677†	8927.5	8273.5	[100]	µg/L	06:56:22
2	Ba 233.527†	7599.1	7366.2	[100]	µg/L	06:56:22
2	Be 313.107†	237418.4	235329.5	[100]	µg/L	06:56:20
2	Cd 226.502†	6989.4	6799.3	[100]	µg/L	06:56:22
2	Co 228.616†	3545.2	3497.0	[100]	µg/L	06:56:42
2	Cr 267.716†	6046.5	5678.0	[100]	µg/L	06:56:22
2	Cu 324.752†	19730.6	14720.8	[100]	µg/L	06:56:22
2	Mn 257.610†	37738.6	35954.2	[100]	µg/L	06:56:22
2	Mo 202.031†	911.7	885.0	[100]	µg/L	06:56:42
2	Ni 231.604†	3737.8	3639.1	[100]	µg/L	06:56:22
2	P 214.914†	432.5	479.0	[500]	µg/L	06:56:42
2	Pb 220.353†	606.6	466.8	[100]	µg/L	06:56:42
2	S 181.975 Axial†	91.8	59.8	[200]	µg/L	06:56:42
2	Sb 206.836†	168.5	156.9	[100]	µg/L	06:56:42
2	Se 196.026†	97.1	81.2	[100]	µg/L	06:56:42
2	SiO2†	8242.3	5957.0	[1069.5]	µg/L	06:56:22
2	Si 251.611†	18515.0	17340.9	[500]	µg/L	06:56:22
2	Sn 189.927†	265.5	253.6	[100]	µg/L	06:56:42
2	Ti 334.940†	58456.4	54441.2	[100]	µg/L	06:56:22
2	Tl 190.801†	66.4	81.6	[100]	µg/L	06:56:42
2	U 367.007†	728.1	404.6	[100]	µg/L	06:56:22
2	V 292.402†	15336.1	14386.3	[100]	µg/L	06:56:22

2	Zn 213.857†	9120.8	8185.7	[100]	µg/L	06:56:22
3	Sc RADIAL	24082.3	24082.3	101	%	06:55:38
3	K 766.490 Radial†	1542.8	801.7	[1000]	µg/L	06:55:38
3	Sr 421.552†	8931.8	8779.1	[100]	µg/L	06:55:38
3	Sc 361.383	1310991.7	1310991.7	101.34	%	06:56:44
3	Y 371.029	769431.6	769431.6	100.74	%	06:56:44
3	Ag 328.068†	15861.0	14976.6	[100]	µg/L	06:56:46
3	As 188.979†	49.7	52.6	[100]	µg/L	06:57:06
3	B 249.677†	8594.4	8203.8	[100]	µg/L	06:56:46
3	Ba 233.527†	7350.8	7341.6	[100]	µg/L	06:56:46
3	Be 313.107†	228257.6	233175.8	[100]	µg/L	06:56:44
3	Cd 226.502†	6685.3	6701.9	[100]	µg/L	06:56:46
3	Co 228.616†	3512.3	3567.5	[100]	µg/L	06:57:06
3	Cr 267.716†	5857.8	5667.2	[100]	µg/L	06:56:46
3	Cu 324.752†	19191.1	14760.8	[100]	µg/L	06:56:46
3	Mn 257.610†	36249.1	35579.0	[100]	µg/L	06:56:46
3	Mo 202.031†	896.5	896.4	[100]	µg/L	06:57:06
3	Ni 231.604†	3557.3	3569.4	[100]	µg/L	06:56:46
3	P 214.914†	434.0	493.0	[500]	µg/L	06:57:06
3	Pb 220.353†	618.5	496.1	[100]	µg/L	06:57:06
3	S 181.975 Axial†	90.0	60.7	[200]	µg/L	06:57:06
3	Sb 206.836†	160.7	154.1	[100]	µg/L	06:57:06
3	Se 196.026†	97.4	84.3	[100]	µg/L	06:57:06
3	SiO2†	8021.9	5978.5	[1069.5]	µg/L	06:56:46
3	Si 251.611†	17926.3	17297.0	[500]	µg/L	06:56:46
3	Sn 189.927†	268.0	263.7	[100]	µg/L	06:57:06
3	Ti 334.940†	56418.3	54125.4	[100]	µg/L	06:56:46
3	Tl 190.801†	64.6	81.8	[100]	µg/L	06:57:06
3	U 367.007†	722.7	420.4	[100]	µg/L	06:56:46
3	V 292.402†	14783.0	14285.2	[100]	µg/L	06:56:46
3	Zn 213.857†	8812.0	8145.6	[100]	µg/L	06:56:46

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1345990.9	32901.67	2.44%	104.04	%
Sc RADIAL	23989.6	247.71	1.03%	101	%
Y 371.029	789788.7	19191.15	2.43%	103.41	%
Ag 328.068†	14942.8	157.01	1.05%	[100]	µg/L
As 188.979†	50.4	2.59	5.14%	[100]	µg/L
B 249.677†	8183.6	101.57	1.24%	[100]	µg/L
Ba 233.527†	7284.9	120.10	1.65%	[100]	µg/L
Be 313.107†	234234.2	1077.32	0.46%	[100]	µg/L
Cd 226.502†	6676.8	136.74	2.05%	[100]	µg/L
Co 228.616†	3512.7	48.85	1.39%	[100]	µg/L
Cr 267.716†	5631.3	71.75	1.27%	[100]	µg/L
Cu 324.752†	14588.1	265.27	1.82%	[100]	µg/L
K 766.490 Radial†	795.6	33.60	4.22%	[1000]	µg/L
Mn 257.610†	35482.0	527.46	1.49%	[100]	µg/L
Mo 202.031†	890.2	5.78	0.65%	[100]	µg/L
Ni 231.604†	3546.1	106.59	3.01%	[100]	µg/L
P 214.914†	482.4	9.31	1.93%	[500]	µg/L
Pb 220.353†	482.5	14.77	3.06%	[100]	µg/L
S 181.975 Axial†	60.1	0.52	0.86%	[200]	µg/L
Sb 206.836†	154.4	2.29	1.48%	[100]	µg/L
Se 196.026†	83.0	1.58	1.90%	[100]	µg/L
SiO2†	5889.3	136.37	2.32%	[1069.5]	µg/L
Si 251.611†	17222.2	168.94	0.98%	[500]	µg/L
Sn 189.927†	255.1	7.96	3.12%	[100]	µg/L
Sr 421.552†	8750.7	51.63	0.59%	[100]	µg/L
Ti 334.940†	53817.0	822.93	1.53%	[100]	µg/L
Tl 190.801†	82.6	1.68	2.03%	[100]	µg/L
U 367.007†	399.6	23.76	5.95%	[100]	µg/L
V 292.402†	14228.6	192.43	1.35%	[100]	µg/L
Zn 213.857†	8082.4	145.53	1.80%	[100]	µg/L

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Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S0.5 **Date Collected: 11/6/2013 06:57:14**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	25659.3	25659.3	108	%	06:57:43
1	Al 396.153Radial†	2434.2	2360.4	[5000]	µg/L	06:58:03
1	Ca 317.933Radial†	8254.1	7555.2	[5000]	µg/L	06:58:03
1	K 766.490 Radial†	4415.6	3366.5	[5000]	µg/L	06:57:43
1	Mg 279.077 IEC†	827.6	762.6	[5000]	µg/L	06:58:03
1	Sr 421.552†	42466.4	39267.8	[500]	µg/L	06:57:43
1	Sc 361.383	1363942.7	1363942.7	105.43	%	06:59:05
1	Y 371.029	787967.2	787967.2	103.17	%	06:59:05
1	Ag 328.068†	78692.6	73965.0	[500]	µg/L	06:59:07
1	As 188.979†	268.4	258.2	[500]	µg/L	06:59:27
1	B 249.677†	43598.5	41076.0	[500]	µg/L	06:59:07
1	Ba 233.527†	37304.2	35470.8	[500]	µg/L	06:59:07
1	Be 313.107†	1211171.7	1156728.9	[500]	µg/L	06:59:05
1	Cd 226.502†	34671.0	32990.4	[500]	µg/L	06:59:07
1	Co 228.616†	18103.2	17272.4	[500]	µg/L	06:59:07
1	Cr 267.716†	28794.4	27198.2	[500]	µg/L	06:59:07
1	Cu 324.752†	80495.9	72173.3	[500]	µg/L	06:59:07
1	Mn 257.610†	180732.0	171232.8	[500]	µg/L	06:59:07
1	Mo 202.031†	4567.6	4344.0	[500]	µg/L	06:59:27
1	Ni 231.604†	18095.8	17223.0	[500]	µg/L	06:59:07
1	P 214.914†	2459.1	2397.2	[2500]	µg/L	06:59:27
1	Pb 220.353†	2576.6	2329.7	[500]	µg/L	06:59:27
1	S 181.975 Axial†	351.5	305.3	[1000]	µg/L	06:59:27
1	Sb 206.836†	826.6	779.4	[500]	µg/L	06:59:27
1	Se 196.026†	404.1	371.4	[500]	µg/L	06:59:27
1	SiO2†	32069.2	28480.2	[5347.5]	µg/L	06:59:07
1	Si 251.611†	88668.0	83709.0	[2500]	µg/L	06:59:07
1	Sn 189.927†	1282.5	1215.7	[500]	µg/L	06:59:27
1	Ti 334.940†	281127.1	265101.2	[500]	µg/L	06:59:07
1	Tl 190.801†	405.3	402.5	[500]	µg/L	06:59:27
1	U 367.007†	2170.2	1765.7	[500]	µg/L	06:59:07
1	V 292.402†	74169.2	70047.0	[500]	µg/L	06:59:07
1	Zn 213.857†	42620.5	39875.5	[500]	µg/L	06:59:07
2	Sc RADIAL	23514.2	23514.2	99.0	%	06:58:05
2	Al 396.153Radial†	2360.4	2491.4	[5000]	µg/L	06:58:25
2	Ca 317.933Radial†	8143.6	8140.3	[5000]	µg/L	06:58:25
2	K 766.490 Radial†	4399.3	3722.7	[5000]	µg/L	06:58:05
2	Mg 279.077 IEC†	825.5	830.4	[5000]	µg/L	06:58:25
2	Sr 421.552†	42364.3	42749.3	[500]	µg/L	06:58:05
2	Sc 361.383	1359231.6	1359231.6	105.07	%	06:59:29
2	Y 371.029	785229.6	785229.6	102.81	%	06:59:29
2	Ag 328.068†	78576.2	74112.9	[500]	µg/L	06:59:31
2	As 188.979†	270.9	261.5	[500]	µg/L	06:59:51
2	B 249.677†	43596.2	41217.2	[500]	µg/L	06:59:31
2	Ba 233.527†	37189.5	35484.3	[500]	µg/L	06:59:31
2	Be 313.107†	1206020.2	1155807.5	[500]	µg/L	06:59:29
2	Cd 226.502†	34509.2	32950.3	[500]	µg/L	06:59:31
2	Co 228.616†	18071.3	17301.6	[500]	µg/L	06:59:31
2	Cr 267.716†	28606.7	27114.2	[500]	µg/L	06:59:31
2	Cu 324.752†	80553.5	72492.9	[500]	µg/L	06:59:31
2	Mn 257.610†	180670.8	171768.7	[500]	µg/L	06:59:31
2	Mo 202.031†	4644.5	4432.3	[500]	µg/L	06:59:51
2	Ni 231.604†	18073.8	17261.5	[500]	µg/L	06:59:31
2	P 214.914†	2492.2	2436.7	[2500]	µg/L	06:59:51
2	Pb 220.353†	2616.3	2375.9	[500]	µg/L	06:59:51
2	S 181.975 Axial†	359.1	313.7	[1000]	µg/L	06:59:51
2	Sb 206.836†	842.0	796.8	[500]	µg/L	06:59:51
2	Se 196.026†	416.2	384.3	[500]	µg/L	06:59:51
2	SiO2†	32006.3	28525.7	[5347.5]	µg/L	06:59:31

2	Si 251.611†	88257.4	83609.7	[2500]	µg/L	06:59:31
2	Sn 189.927†	1311.4	1247.4	[500]	µg/L	06:59:51
2	Ti 334.940†	280357.8	265293.2	[500]	µg/L	06:59:31
2	Tl 190.801†	411.6	409.8	[500]	µg/L	06:59:51
2	U 367.007†	2134.0	1738.4	[500]	µg/L	06:59:31
2	V 292.402†	74093.5	70218.8	[500]	µg/L	06:59:31
2	Zn 213.857†	42405.2	39810.7	[500]	µg/L	06:59:31
3	Sc RADIAL	24026.4	24026.4	101	%	06:58:27
3	Al 396.153Radial†	2350.7	2431.0	[5000]	µg/L	06:58:47
3	Ca 317.933Radial†	8111.4	7933.2	[5000]	µg/L	06:58:47
3	K 766.490 Radial†	4330.1	3559.7	[5000]	µg/L	06:58:27
3	Mg 279.077 IEC†	810.0	797.3	[5000]	µg/L	06:58:47
3	Sr 421.552†	42986.1	42451.8	[500]	µg/L	06:58:27
3	Sc 361.383	1356997.4	1356997.4	104.89	%	06:59:54
3	Y 371.029	784199.0	784199.0	102.68	%	06:59:54
3	Ag 328.068†	78448.7	74114.5	[500]	µg/L	06:59:56
3	As 188.979†	271.8	262.8	[500]	µg/L	07:00:16
3	B 249.677†	43324.0	41026.1	[500]	µg/L	06:59:56
3	Ba 233.527†	37014.0	35375.3	[500]	µg/L	06:59:56
3	Be 313.107†	1207377.6	1158991.5	[500]	µg/L	06:59:54
3	Cd 226.502†	34312.2	32816.6	[500]	µg/L	06:59:56
3	Co 228.616†	17917.4	17183.1	[500]	µg/L	06:59:56
3	Cr 267.716†	28649.8	27200.1	[500]	µg/L	06:59:56
3	Cu 324.752†	79924.0	72018.9	[500]	µg/L	06:59:56
3	Mn 257.610†	179567.4	170999.9	[500]	µg/L	06:59:56
3	Mo 202.031†	4647.8	4442.7	[500]	µg/L	07:00:16
3	Ni 231.604†	17965.1	17186.1	[500]	µg/L	06:59:56
3	P 214.914†	2495.9	2444.2	[2500]	µg/L	07:00:16
3	Pb 220.353†	2618.1	2381.7	[500]	µg/L	07:00:16
3	S 181.975 Axial†	362.0	317.0	[1000]	µg/L	07:00:16
3	Sb 206.836†	833.8	790.4	[500]	µg/L	07:00:16
3	Se 196.026†	413.9	382.8	[500]	µg/L	07:00:16
3	SiO2†	31910.9	28484.9	[5347.5]	µg/L	06:59:56
3	Si 251.611†	88181.0	83675.2	[2500]	µg/L	06:59:56
3	Sn 189.927†	1313.9	1251.9	[500]	µg/L	07:00:16
3	Ti 334.940†	279754.9	265157.7	[500]	µg/L	06:59:56
3	Tl 190.801†	410.5	409.3	[500]	µg/L	07:00:16
3	U 367.007†	2130.5	1738.4	[500]	µg/L	06:59:56
3	V 292.402†	73541.4	69808.6	[500]	µg/L	06:59:56
3	Zn 213.857†	42226.2	39706.5	[500]	µg/L	06:59:56

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1360057.2	3545.53	0.26%	105.13	%
Sc RADIAL	24400.0	1120.27	4.59%	103	%
Y 371.029	785798.6	1947.49	0.25%	102.89	%
Ag 328.068†	74064.1	85.86	0.12%	[500]	µg/L
Al 396.153Radial†	2427.6	65.59	2.70%	[5000]	µg/L
As 188.979†	260.8	2.35	0.90%	[500]	µg/L
B 249.677†	41106.4	99.12	0.24%	[500]	µg/L
Ba 233.527†	35443.5	59.43	0.17%	[500]	µg/L
Be 313.107†	1157175.9	1638.40	0.14%	[500]	µg/L
Ca 317.933Radial†	7876.2	296.72	3.77%	[5000]	µg/L
Cd 226.502†	32919.1	91.00	0.28%	[500]	µg/L
Co 228.616†	17252.4	61.72	0.36%	[500]	µg/L
Cr 267.716†	27170.8	49.08	0.18%	[500]	µg/L
Cu 324.752†	72228.4	241.71	0.33%	[500]	µg/L
K 766.490 Radial†	3549.6	178.33	5.02%	[5000]	µg/L
Mg 279.077 IEC†	796.8	33.90	4.25%	[5000]	µg/L
Mn 257.610†	171333.8	394.22	0.23%	[500]	µg/L
Mo 202.031†	4406.4	54.21	1.23%	[500]	µg/L
Ni 231.604†	17223.5	37.67	0.22%	[500]	µg/L
P 214.914†	2426.0	25.26	1.04%	[2500]	µg/L
Pb 220.353†	2362.5	28.50	1.21%	[500]	µg/L
S 181.975 Axial†	312.0	6.04	1.93%	[1000]	µg/L
Sb 206.836†	788.9	8.79	1.11%	[500]	µg/L
Se 196.026†	379.5	7.02	1.85%	[500]	µg/L
SiO2†	28497.0	25.05	0.09%	[5347.5]	µg/L
Si 251.611†	83664.6	50.49	0.06%	[2500]	µg/L

Sn 189.927†	1238.3	19.73	1.59%	[500] µg/L
Sr 421.552†	41489.6	1929.93	4.65%	[500] µg/L
Ti 334.940†	265184.0	98.66	0.04%	[500] µg/L
Tl 190.801†	407.2	4.09	1.01%	[500] µg/L
U 367.007†	1747.5	15.75	0.90%	[500] µg/L
V 292.402†	70024.8	206.00	0.29%	[500] µg/L
Zn 213.857†	39797.5	85.26	0.21%	[500] µg/L

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Sequence No.: 4 **Autosampler Location: 4**
Sample ID: SCAL **Date Collected: 11/6/2013 07:00:24**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	23702.0	23702.0	99.8	%	07:01:13
1	Al 396.153Radial†	4983.9	5100.4	[10000]	µg/L	07:01:13
1	Ca 317.933Radial†	16656.1	16602.4	[10000]	µg/L	07:01:13
1	Fe 238.204 Radial†	3412.3	3385.2	[10000]	µg/L	07:01:13
1	K 766.490 Radial†	8067.8	7362.3	[10000]	µg/L	07:00:53
1	Mg 279.077 IEC†	1661.4	1661.1	[10000]	µg/L	07:01:13
1	Na 589.592 Radial†	7563.9	7625.6	[10000]	µg/L	07:00:53
1	Sr 421.552†	87069.7	87192.9	[1000]	µg/L	07:00:53
1	Sc 361.383	1359653.4	1359653.4	105.10	%	07:02:15
1	Y 371.029	782818.8	782818.8	102.50	%	07:02:15
1	Ag 328.068†	158435.3	150075.4	[1000]	µg/L	07:02:18
1	As 188.979†	560.7	537.1	[1000]	µg/L	07:02:38
1	B 249.677†	89791.7	85159.2	[1000]	µg/L	07:02:18
1	Ba 233.527†	76527.0	72902.8	[1000]	µg/L	07:02:18
1	Be 313.107†	2495470.1	2382357.8	[1000]	µg/L	07:02:15
1	Cd 226.502†	70621.8	67301.1	[1000]	µg/L	07:02:18
1	Co 228.616†	36830.8	35145.8	[1000]	µg/L	07:02:18
1	Cr 267.716†	58846.0	55878.3	[1000]	µg/L	07:02:18
1	Cu 324.752†	160858.2	148878.6	[1000]	µg/L	07:02:18
1	Mn 257.610†	367134.8	349135.1	[1000]	µg/L	07:02:18
1	Mo 202.031†	9419.9	8974.6	[1000]	µg/L	07:02:38
1	Ni 231.604†	36773.0	35048.4	[1000]	µg/L	07:02:18
1	P 214.914†	5088.8	4906.6	[5000]	µg/L	07:02:38
1	Pb 220.353†	5184.1	4818.4	[1000]	µg/L	07:02:38
1	S 181.975 Axial†	700.3	638.2	[2000]	µg/L	07:02:38
1	Sb 206.836†	1696.9	1610.0	[1000]	µg/L	07:02:38
1	Se 196.026†	824.7	772.9	[1000]	µg/L	07:02:38
1	SiO2†	64856.0	59772.7	[10695]	µg/L	07:02:18
1	Si 251.611†	184331.1	174997.3	[5000]	µg/L	07:02:18
1	Sn 189.927†	2635.8	2507.2	[1000]	µg/L	07:02:38
1	Ti 334.940†	574813.2	545383.6	[1000]	µg/L	07:02:15
1	Tl 190.801†	855.1	831.6	[1000]	µg/L	07:02:38
1	U 367.007†	4042.8	3554.0	[1000]	µg/L	07:02:18
1	V 292.402†	151722.7	144060.8	[1000]	µg/L	07:02:18
1	Zn 213.857†	85942.2	81223.4	[1000]	µg/L	07:02:18
2	Sc RADIAL	23599.4	23599.4	99.4	%	07:01:35
2	Al 396.153Radial†	4878.4	5016.0	[10000]	µg/L	07:01:35
2	Ca 317.933Radial†	16526.6	16544.6	[10000]	µg/L	07:01:35
2	Fe 238.204 Radial†	3389.8	3377.4	[10000]	µg/L	07:01:35
2	K 766.490 Radial†	8093.1	7422.9	[10000]	µg/L	07:01:15
2	Mg 279.077 IEC†	1656.1	1663.0	[10000]	µg/L	07:01:35
2	Na 589.592 Radial†	7520.1	7614.4	[10000]	µg/L	07:01:15
2	Sr 421.552†	87558.2	88063.3	[1000]	µg/L	07:01:15
2	Sc 361.383	1363008.9	1363008.9	105.36	%	07:02:40
2	Y 371.029	785103.3	785103.3	102.80	%	07:02:40
2	Ag 328.068†	157101.8	148438.5	[1000]	µg/L	07:02:42
2	As 188.979†	547.3	523.1	[1000]	µg/L	07:03:02
2	B 249.677†	89146.2	84336.2	[1000]	µg/L	07:02:42
2	Ba 233.527†	75982.4	72206.6	[1000]	µg/L	07:02:42
2	Be 313.107†	2499236.5	2380087.3	[1000]	µg/L	07:02:40
2	Cd 226.502†	69936.0	66484.8	[1000]	µg/L	07:02:42
2	Co 228.616†	36451.3	34699.3	[1000]	µg/L	07:02:42
2	Cr 267.716†	58267.1	55191.0	[1000]	µg/L	07:02:42
2	Cu 324.752†	159690.4	147393.4	[1000]	µg/L	07:02:42
2	Mn 257.610†	363902.3	345207.0	[1000]	µg/L	07:02:42
2	Mo 202.031†	9361.4	8897.1	[1000]	µg/L	07:03:02
2	Ni 231.604†	36282.9	34497.0	[1000]	µg/L	07:02:42
2	P 214.914†	5060.8	4868.2	[5000]	µg/L	07:03:02
2	Pb 220.353†	5134.6	4759.3	[1000]	µg/L	07:03:02

2	S 181.975 Axial†	697.7	634.2	[2000]	µg/L	07:03:02
2	Sb 206.836†	1686.9	1596.6	[1000]	µg/L	07:03:02
2	Se 196.026†	812.8	759.6	[1000]	µg/L	07:03:02
2	SiO2†	64273.8	59068.1	[10695]	µg/L	07:02:42
2	Si 251.611†	182877.9	173186.3	[5000]	µg/L	07:02:42
2	Sn 189.927†	2622.6	2488.5	[1000]	µg/L	07:03:02
2	Ti 334.940†	574961.5	544177.8	[1000]	µg/L	07:02:40
2	Tl 190.801†	853.5	828.1	[1000]	µg/L	07:03:02
2	U 367.007†	3944.8	3451.5	[1000]	µg/L	07:02:42
2	V 292.402†	150602.3	142641.9	[1000]	µg/L	07:02:42
2	Zn 213.857†	85380.1	80488.6	[1000]	µg/L	07:02:42
3	Sc RADIAL	23778.4	23778.4	100	%	07:01:57
3	Al 396.153Radial†	4877.3	4978.0	[10000]	µg/L	07:01:57
3	Ca 317.933Radial†	16648.6	16541.3	[10000]	µg/L	07:01:57
3	Fe 238.204 Radial†	3412.0	3373.9	[10000]	µg/L	07:01:57
3	K 766.490 Radial†	8010.0	7278.7	[10000]	µg/L	07:01:37
3	Mg 279.077 IEC†	1657.6	1652.0	[10000]	µg/L	07:01:57
3	Na 589.592 Radial†	7562.0	7599.3	[10000]	µg/L	07:01:37
3	Sr 421.552†	87402.9	87245.2	[1000]	µg/L	07:01:37
3	Sc 361.383	1348807.0	1348807.0	104.26	%	07:03:05
3	Y 371.029	777018.8	777018.8	101.74	%	07:03:05
3	Ag 328.068†	158660.7	151503.7	[1000]	µg/L	07:03:07
3	As 188.979†	564.4	545.0	[1000]	µg/L	07:03:27
3	B 249.677†	90423.2	86451.9	[1000]	µg/L	07:03:07
3	Ba 233.527†	76633.0	73590.0	[1000]	µg/L	07:03:07
3	Be 313.107†	2471604.3	2378560.8	[1000]	µg/L	07:03:05
3	Cd 226.502†	70863.5	68073.4	[1000]	µg/L	07:03:07
3	Co 228.616†	36968.0	35559.2	[1000]	µg/L	07:03:07
3	Cr 267.716†	58936.0	56414.9	[1000]	µg/L	07:03:07
3	Cu 324.752†	161541.1	150764.4	[1000]	µg/L	07:03:07
3	Mn 257.610†	367828.4	352609.5	[1000]	µg/L	07:03:07
3	Mo 202.031†	9486.3	9110.4	[1000]	µg/L	07:03:27
3	Ni 231.604†	36755.7	35313.1	[1000]	µg/L	07:03:07
3	P 214.914†	5105.1	4961.2	[5000]	µg/L	07:03:27
3	Pb 220.353†	5209.3	4882.2	[1000]	µg/L	07:03:27
3	S 181.975 Axial†	699.0	642.4	[2000]	µg/L	07:03:27
3	Sb 206.836†	1708.2	1633.9	[1000]	µg/L	07:03:27
3	Se 196.026†	823.8	778.3	[1000]	µg/L	07:03:27
3	SiO2†	64953.6	60362.5	[10695]	µg/L	07:03:07
3	Si 251.611†	185363.2	177397.7	[5000]	µg/L	07:03:07
3	Sn 189.927†	2654.1	2545.0	[1000]	µg/L	07:03:27
3	Ti 334.940†	568935.1	544143.7	[1000]	µg/L	07:03:05
3	Tl 190.801†	861.3	844.2	[1000]	µg/L	07:03:27
3	U 367.007†	4078.1	3618.8	[1000]	µg/L	07:03:07
3	V 292.402†	152166.4	145647.2	[1000]	µg/L	07:03:07
3	Zn 213.857†	86205.6	82133.6	[1000]	µg/L	07:03:07

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1357156.4	7422.88	0.55%	104.90	%
Sc RADIAL	23693.3	89.79	0.38%	99.8	%
Y 371.029	781646.9	4167.71	0.53%	102.34	%
Ag 328.068†	150005.9	1533.79	1.02%	[1000]	µg/L
Al 396.153Radial†	5031.5	62.69	1.25%	[10000]	µg/L
As 188.979†	535.1	11.08	2.07%	[1000]	µg/L
B 249.677†	85315.8	1066.49	1.25%	[1000]	µg/L
Ba 233.527†	72899.8	691.71	0.95%	[1000]	µg/L
Be 313.107†	2380335.3	1910.59	0.08%	[1000]	µg/L
Ca 317.933Radial†	16562.7	34.36	0.21%	[10000]	µg/L
Cd 226.502†	67286.4	794.38	1.18%	[1000]	µg/L
Co 228.616†	35134.8	430.06	1.22%	[1000]	µg/L
Cr 267.716†	55828.1	613.46	1.10%	[1000]	µg/L
Cu 324.752†	149012.1	1689.46	1.13%	[1000]	µg/L
Fe 238.204 Radial†	3378.8	5.78	0.17%	[10000]	µg/L
K 766.490 Radial†	7354.6	72.41	0.98%	[10000]	µg/L
Mg 279.077 IEC†	1658.7	5.88	0.35%	[10000]	µg/L
Mn 257.610†	348983.8	3703.55	1.06%	[1000]	µg/L
Mo 202.031†	8994.0	107.99	1.20%	[1000]	µg/L
Na 589.592 Radial†	7613.1	13.19	0.17%	[10000]	µg/L

Ni 231.604†	34952.8	416.35	1.19%	[1000]	µg/L
P 214.914†	4912.0	46.77	0.95%	[5000]	µg/L
Pb 220.353†	4820.0	61.48	1.28%	[1000]	µg/L
S 181.975 Axial†	638.2	4.11	0.64%	[2000]	µg/L
Sb 206.836†	1613.5	18.89	1.17%	[1000]	µg/L
Se 196.026†	770.3	9.61	1.25%	[1000]	µg/L
SiO2†	59734.4	648.05	1.08%	[10695]	µg/L
Si 251.611†	175193.8	2112.58	1.21%	[5000]	µg/L
Sn 189.927†	2513.5	28.78	1.15%	[1000]	µg/L
Sr 421.552†	87500.5	488.10	0.56%	[1000]	µg/L
Ti 334.940†	544568.4	706.21	0.13%	[1000]	µg/L
Tl 190.801†	834.6	8.45	1.01%	[1000]	µg/L
U 367.007†	3541.4	84.32	2.38%	[1000]	µg/L
V 292.402†	144116.6	1503.43	1.04%	[1000]	µg/L
Zn 213.857†	81281.9	824.08	1.01%	[1000]	µg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S10 **Date Collected: 11/6/2013 07:03:35**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	24032.1	24032.1	101	%	07:04:06
1	Al 396.153Radial†	24496.4	24309.5	[50000]	µg/L	07:04:04
1	Ca 317.933Radial†	82055.4	80985.3	[50000]	µg/L	07:04:04
1	Fe 238.204 Radial†	6574.2	6462.0	[20000]	µg/L	07:04:06
1	Mg 279.077 IEC†	7911.7	7813.4	[50000]	µg/L	07:04:06
1	Na 589.592 Radial†	14688.4	14560.3	[20000]	µg/L	07:04:04
1	Sc 361.383	1286216.1	1286216.1	99.421	%	07:04:32
1	Y 371.029	737687.9	737687.9	96.587	%	07:04:32
2	Sc RADIAL	24244.6	24244.6	102	%	07:04:10
2	Al 396.153Radial†	24146.9	23755.1	[50000]	µg/L	07:04:08
2	Ca 317.933Radial†	81314.7	79549.2	[50000]	µg/L	07:04:08
2	Fe 238.204 Radial†	6550.9	6382.3	[20000]	µg/L	07:04:10
2	Mg 279.077 IEC†	7943.5	7776.0	[50000]	µg/L	07:04:10
2	Na 589.592 Radial†	14482.9	14231.7	[20000]	µg/L	07:04:08
2	Sc 361.383	1323025.1	1323025.1	102.27	%	07:04:35
2	Y 371.029	757440.7	757440.7	99.173	%	07:04:35
3	Sc RADIAL	24157.2	24157.2	102	%	07:04:14
3	Al 396.153Radial†	23544.9	23249.0	[50000]	µg/L	07:04:12
3	Ca 317.933Radial†	78447.3	77019.2	[50000]	µg/L	07:04:12
3	Fe 238.204 Radial†	6421.6	6278.4	[20000]	µg/L	07:04:14
3	Mg 279.077 IEC†	7755.9	7619.8	[50000]	µg/L	07:04:14
3	Na 589.592 Radial†	13917.8	13727.7	[20000]	µg/L	07:04:12
3	Sc 361.383	1337758.3	1337758.3	103.41	%	07:04:37
3	Y 371.029	766935.8	766935.8	100.42	%	07:04:37

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1315666.5	26547.34	2.02%	101.70	%
Sc RADIAL	24144.6	106.84	0.44%	102	%
Y 371.029	754021.5	14920.74	1.98%	98.726	%
Al 396.153Radial†	23771.2	530.44	2.23%	[50000]	µg/L
Ca 317.933Radial†	79184.5	2008.04	2.54%	[50000]	µg/L
Fe 238.204 Radial†	6374.2	92.08	1.44%	[20000]	µg/L
Mg 279.077 IEC†	7736.4	102.70	1.33%	[50000]	µg/L
Na 589.592 Radial†	14173.3	419.34	2.96%	[20000]	µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	149.6	0.00000	0.999987	
Al 396.153Radial	3	Lin Thru 0	0.0	0.4766	0.00000	0.999936	
As 188.979	3	Lin Thru 0	0.0	0.5322	0.00000	0.999939	
B 249.677	3	Lin Thru 0	0.0	84.67	0.00000	0.999889	
Ba 233.527	3	Lin Thru 0	0.0	72.50	0.00000	0.999939	
Be 313.107	3	Lin Thru 0	0.0	2367	0.00000	0.999938	
Ca 317.933Radial	3	Lin Thru 0	0.0	1.586	0.00000	0.999961	
Cd 226.502	3	Lin Thru 0	0.0	66.99	0.00000	0.999963	
Co 228.616	3	Lin Thru 0	0.0	35.01	0.00000	0.999974	
Cr 267.716	3	Lin Thru 0	0.0	55.54	0.00000	0.999942	
Cu 324.752	3	Lin Thru 0	0.0	148.1	0.00000	0.999924	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.3225	0.00000	0.999717	
K 766.490 Radial	3	Lin Thru 0	0.0	0.7309	0.00000	0.999872	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.1552	0.00000	0.999902	
Mn 257.610	3	Lin Thru 0	0.0	347.8	0.00000	0.999972	
Mo 202.031	3	Lin Thru 0	0.0	8.957	0.00000	0.999967	
Na 589.592 Radia	2	Lin Thru 0	0.0	0.7192	0.00000	0.999572	

Ni 231.604	3	Lin Thru 0	0.0	34.86	0.00000	0.999982
P 214.914	3	Lin Thru 0	0.0	0.9799	0.00000	0.999987
Pb 220.353	3	Lin Thru 0	0.0	4.801	0.00000	0.999969
S 181.975 Axial	3	Lin Thru 0	0.0	0.3176	0.00000	0.999948
Sb 206.836	3	Lin Thru 0	0.0	1.606	0.00000	0.999955
Se 196.026	3	Lin Thru 0	0.0	0.7685	0.00000	0.999958
SiO2	3	Lin Thru 0	0.0	5.534	0.00000	0.999830
Si 251.611	3	Lin Thru 0	0.0	34.72	0.00000	0.999837
Sn 189.927	3	Lin Thru 0	0.0	2.507	0.00000	0.999982
Sr 421.552	3	Lin Thru 0	0.0	86.60	0.00000	0.999783
Ti 334.940	3	Lin Thru 0	0.0	541.7	0.00000	0.999945
Tl 190.801	3	Lin Thru 0	0.0	0.8305	0.00000	0.999953
U 367.007	3	Lin Thru 0	0.0	3.536	0.00000	0.999919
V 292.402	3	Lin Thru 0	0.0	143.3	0.00000	0.999936
Zn 213.857	3	Lin Thru 0	0.0	80.94	0.00000	0.999966

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

Autosampler Location: 9
Date Collected: 11/6/2013 07:04:45
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	24019.6	24019.6	101	%			07:05:15
1	Al 396.153Radial†	2429.2	2509.2	5263.0	µg/L	5263.0	ppb	07:05:15
1	Ca 317.933Radial†	8646.6	8464.5	5334.4	µg/L	5334.4	ppb	07:05:35
1	Fe 238.204 Radial†	1744.9	1691.8	5229.7	µg/L	5229.7	ppb	07:05:35
1	K 766.490 Radial†	2678.5	1928.3	2650.9	µg/L	2650.9	ppb	07:05:15
1	Mg 279.077 IEC†	847.2	834.3	5376.9	µg/L	5376.9	ppb	07:05:35
1	Na 589.592 Radial†	1987.7	2013.4	2799.5	µg/L	2799.5	ppb	07:05:15
1	Sr 421.552†	44502.9	43963.2	507.60	µg/L	507.60	ppb	07:05:15
1	Sc 361.383	1316624.5	1316624.5	101.77	%			07:06:37
1	Y 371.029	765470.2	765470.2	100.22	%			07:06:37
1	Ag 328.068†	38199.0	36858.8	247.49	µg/L	247.49	ppb	07:06:37
1	As 188.979†	262.7	261.8	499.01	µg/L	499.01	ppb	07:06:57
1	B 249.677†	42690.4	41670.0	473.11	µg/L	473.11	ppb	07:06:37
1	Ba 233.527†	36153.4	35611.7	492.50	µg/L	492.50	ppb	07:06:37
1	Be 313.107†	596319.1	593866.4	250.90	µg/L	250.90	ppb	07:06:37
1	Cd 226.502†	33762.6	33279.7	496.37	µg/L	496.37	ppb	07:06:37
1	Co 228.616†	17646.6	17440.8	497.85	µg/L	497.85	ppb	07:06:37
1	Cr 267.716†	28492.9	27883.4	501.70	µg/L	501.70	ppb	07:06:37
1	Cu 324.752†	80110.8	74539.0	504.55	µg/L	504.55	ppb	07:06:37
1	Mn 257.610†	175305.4	172061.6	494.73	µg/L	494.73	ppb	07:06:37
1	Mo 202.031†	4366.0	4301.7	480.62	µg/L	480.62	ppb	07:06:57
1	Ni 231.604†	17378.1	17134.6	491.55	µg/L	491.55	ppb	07:06:37
1	P 214.914†	2404.6	2427.5	2462.4	µg/L	2462.4	ppb	07:06:57
1	Pb 220.353†	2615.1	2455.3	512.59	µg/L	512.59	ppb	07:06:57
1	S 181.975 Axial†	809.9	767.7	2412.8	µg/L	2412.8	ppb	07:06:57
1	Sb 206.836†	791.8	773.4	481.38	µg/L	481.38	ppb	07:06:57
1	Se 196.026†	1964.6	1918.6	2500	µg/L	2500	ppb	07:06:57
1	SiO2†	60352.9	57364.7	10376	µg/L	10376	ppb	07:06:37
1	Si 251.611†	171612.3	168231.9	4839.3	µg/L	4839.3	ppb	07:06:37
1	Sn 189.927†	1267.6	1244.8	497.29	µg/L	497.29	ppb	07:06:57
1	Ti 334.940†	271591.9	265315.1	489.54	µg/L	489.54	ppb	07:06:37
1	Tl 190.801†	408.3	419.1	499.27	µg/L	499.27	ppb	07:06:57
1	U 367.007†	2183.7	1852.9	493.32	µg/L	493.32	ppb	07:06:37
1	V 292.402†	71910.6	70356.0	498.63	µg/L	498.63	ppb	07:06:37
1	Zn 213.857†	42199.0	40914.2	501.68	µg/L	501.68	ppb	07:06:37
2	Sc RADIAL	23991.1	23991.1	101	%			07:05:37
2	Al 396.153Radial†	2444.3	2527.0	5300.2	µg/L	5300.2	ppb	07:05:37
2	Ca 317.933Radial†	8629.7	8458.0	5330.3	µg/L	5330.3	ppb	07:05:57
2	Fe 238.204 Radial†	1746.0	1694.9	5239.1	µg/L	5239.1	ppb	07:05:57
2	K 766.490 Radial†	2524.2	1778.7	2446.6	µg/L	2446.6	ppb	07:05:37
2	Mg 279.077 IEC†	842.7	830.8	5354.3	µg/L	5354.3	ppb	07:05:57
2	Na 589.592 Radial†	1797.6	1827.6	2541.2	µg/L	2541.2	ppb	07:05:37
2	Sr 421.552†	44623.1	44134.4	509.57	µg/L	509.57	ppb	07:05:37
2	Sc 361.383	1366915.0	1366915.0	105.66	%			07:07:00
2	Y 371.029	795479.2	795479.2	104.15	%			07:07:00
2	Ag 328.068†	39931.1	37117.2	249.26	µg/L	249.26	ppb	07:07:00
2	As 188.979†	273.5	262.5	500.54	µg/L	500.54	ppb	07:07:20
2	B 249.677†	45314.9	42610.6	484.30	µg/L	484.30	ppb	07:07:00
2	Ba 233.527†	38421.7	36451.6	504.10	µg/L	504.10	ppb	07:07:00
2	Be 313.107†	631470.5	605577.8	255.85	µg/L	255.85	ppb	07:07:00
2	Cd 226.502†	36087.1	34259.1	511.00	µg/L	511.00	ppb	07:07:00
2	Co 228.616†	18598.8	17704.1	505.36	µg/L	505.36	ppb	07:07:00
2	Cr 267.716†	30196.1	28465.4	512.18	µg/L	512.18	ppb	07:07:00
2	Cu 324.752†	84490.2	75787.8	512.99	µg/L	512.99	ppb	07:07:00
2	Mn 257.610†	185615.8	175482.3	504.57	µg/L	504.57	ppb	07:07:00
2	Mo 202.031†	4606.7	4371.7	488.44	µg/L	488.44	ppb	07:07:20
2	Ni 231.604†	18478.6	17547.9	503.40	µg/L	503.40	ppb	07:07:00
2	P 214.914†	2543.4	2471.9	2507.6	µg/L	2507.6	ppb	07:07:20
2	Pb 220.353†	2764.9	2502.6	522.47	µg/L	522.47	ppb	07:07:20

2	S 181.975 Axial†	857.0	783.0	2461.1 µg/L	2461.1 ppb	07:07:20
2	Sb 206.836†	838.9	789.4	491.33 µg/L	491.33 ppb	07:07:20
2	Se 196.026†	2071.6	1948.8	2540 µg/L	2540 ppb	07:07:20
2	SiO2†	63688.8	58340.2	10553 µg/L	10553 ppb	07:07:00
2	Si 251.611†	181212.7	171114.3	4922.2 µg/L	4922.2 ppb	07:07:00
2	Sn 189.927†	1362.1	1288.4	514.69 µg/L	514.69 ppb	07:07:20
2	Ti 334.940†	286910.5	269995.1	498.18 µg/L	498.18 ppb	07:07:00
2	Tl 190.801†	423.5	418.8	498.80 µg/L	498.80 ppb	07:07:20
2	U 367.007†	2253.6	1840.2	489.63 µg/L	489.63 ppb	07:07:00
2	V 292.402†	75933.9	71564.2	507.18 µg/L	507.18 ppb	07:07:00
2	Zn 213.857†	44679.7	41736.5	511.77 µg/L	511.77 ppb	07:07:00
3	Sc RADIAL	23644.8	23644.8	99.6 %		07:05:59
3	Al 396.153Radial†	2358.6	2476.3	5193.9 µg/L	5193.9 ppb	07:05:59
3	Ca 317.933Radial†	8612.4	8565.7	5398.2 µg/L	5398.2 ppb	07:06:19
3	Fe 238.204 Radial†	1738.8	1713.0	5295.0 µg/L	5295.0 ppb	07:06:19
3	K 766.490 Radial†	2649.0	1940.6	2668.2 µg/L	2668.2 ppb	07:05:59
3	Mg 279.077 IEC†	838.1	838.4	5403.1 µg/L	5403.1 ppb	07:06:19
3	Na 589.592 Radial†	1876.4	1932.8	2687.5 µg/L	2687.5 ppb	07:05:59
3	Sr 421.552†	44263.2	44419.8	512.87 µg/L	512.87 ppb	07:05:59
3	Sc 361.383	1341781.7	1341781.7	103.72 %		07:07:22
3	Y 371.029	780384.1	780384.1	102.18 %		07:07:22
3	Ag 328.068†	39609.9	37515.5	251.93 µg/L	251.93 ppb	07:07:22
3	As 188.979†	270.0	264.0	503.40 µg/L	503.40 ppb	07:07:42
3	B 249.677†	44677.1	42799.0	486.24 µg/L	486.24 ppb	07:07:22
3	Ba 233.527†	38052.6	36776.8	508.60 µg/L	508.60 ppb	07:07:22
3	Be 313.107†	624410.5	609965.5	257.70 µg/L	257.70 ppb	07:07:22
3	Cd 226.502†	35473.0	34306.7	511.71 µg/L	511.71 ppb	07:07:22
3	Co 228.616†	18470.1	17909.7	511.24 µg/L	511.24 ppb	07:07:22
3	Cr 267.716†	29820.2	28638.3	515.28 µg/L	515.28 ppb	07:07:22
3	Cu 324.752†	83481.2	76312.7	516.54 µg/L	516.54 ppb	07:07:22
3	Mn 257.610†	183463.3	176697.5	508.06 µg/L	508.06 ppb	07:07:22
3	Mo 202.031†	4601.8	4448.6	497.03 µg/L	497.03 ppb	07:07:42
3	Ni 231.604†	18276.1	17680.3	507.20 µg/L	507.20 ppb	07:07:22
3	P 214.914†	2541.6	2515.2	2551.6 µg/L	2551.6 ppb	07:07:42
3	Pb 220.353†	2738.1	2525.8	527.31 µg/L	527.31 ppb	07:07:42
3	S 181.975 Axial†	863.3	804.3	2528.1 µg/L	2528.1 ppb	07:07:42
3	Sb 206.836†	833.8	799.4	497.55 µg/L	497.55 ppb	07:07:42
3	Se 196.026†	2062.7	1976.9	2570 µg/L	2570 ppb	07:07:42
3	SiO2†	63155.9	58955.4	10664 µg/L	10664 ppb	07:07:22
3	Si 251.611†	179230.6	172415.7	4959.5 µg/L	4959.5 ppb	07:07:22
3	Sn 189.927†	1347.3	1298.2	518.62 µg/L	518.62 ppb	07:07:42
3	Ti 334.940†	283647.2	271935.1	501.76 µg/L	501.76 ppb	07:07:22
3	Tl 190.801†	428.7	431.3	513.75 µg/L	513.75 ppb	07:07:42
3	U 367.007†	2246.8	1873.6	498.75 µg/L	498.75 ppb	07:07:22
3	V 292.402†	75192.3	72195.3	511.70 µg/L	511.70 ppb	07:07:22
3	Zn 213.857†	44216.1	42081.6	516.00 µg/L	516.00 ppb	07:07:22

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1341773.7	103.72	%	1.944				1.87%
Sc RADIAL	23885.2	101	%	0.9				0.87%
Y 371.029	780444.5	102.19	%	1.965				1.92%
Ag 328.068†	37163.8	249.56	µg/L	2.231	249.56	ppb	2.231	0.89%
QC value within limits for Ag 328.068 Recovery = 99.82%								
Al 396.153Radial†	2504.2	5252.4	µg/L	53.94	5252.4	ppb	53.94	1.03%
QC value within limits for Al 396.153Radial Recovery = 105.05%								
As 188.979†	262.8	500.99	µg/L	2.227	500.99	ppb	2.227	0.44%
QC value within limits for As 188.979 Recovery = 100.20%								
B 249.677†	42359.9	481.22	µg/L	7.086	481.22	ppb	7.086	1.47%
QC value within limits for B 249.677 Recovery = 96.24%								
Ba 233.527†	36280.0	501.73	µg/L	8.310	501.73	ppb	8.310	1.66%
QC value within limits for Ba 233.527 Recovery = 100.35%								
Be 313.107†	603136.6	254.82	µg/L	3.516	254.82	ppb	3.516	1.38%
QC value within limits for Be 313.107 Recovery = 101.93%								
Ca 317.933Radial†	8496.1	5354.3	µg/L	38.07	5354.3	ppb	38.07	0.71%
QC value within limits for Ca 317.933Radial Recovery = 107.09%								
Cd 226.502†	33948.5	506.36	µg/L	8.655	506.36	ppb	8.655	1.71%
QC value within limits for Cd 226.502 Recovery = 101.27%								
Co 228.616†	17684.9	504.82	µg/L	6.713	504.82	ppb	6.713	1.33%

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   QC value within limits for Co 228.616  Recovery = 100.96%
Cr 267.716†            28329.0      509.72 µg/L         7.118      509.72 ppb          7.118   1.40%
   QC value within limits for Cr 267.716  Recovery = 101.94%
Cu 324.752†            75546.5      511.36 µg/L         6.160      511.36 ppb          6.160   1.20%
   QC value within limits for Cu 324.752  Recovery = 102.27%
Fe 238.204 Radial†      1699.9      5254.6 µg/L         35.26      5254.6 ppb          35.26   0.67%
   QC value within limits for Fe 238.204 Radial  Recovery = 105.09%
K 766.490 Radial†       1882.5      2588.6 µg/L        123.24      2588.6 ppb         123.24   4.76%
   QC value within limits for K 766.490 Radial  Recovery = 103.54%
Mg 279.077 IEC†          834.5      5378.1 µg/L         24.42      5378.1 ppb          24.42   0.45%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.56%
Mn 257.610†           174747.1      502.45 µg/L         6.913      502.45 ppb          6.913   1.38%
   QC value within limits for Mn 257.610  Recovery = 100.49%
Mo 202.031†             4374.0      488.69 µg/L         8.207      488.69 ppb          8.207   1.68%
   QC value within limits for Mo 202.031  Recovery = 97.74%
Na 589.592 Radial†      1924.6      2676.1 µg/L        129.56      2676.1 ppb         129.56   4.84%
   QC value within limits for Na 589.592 Radial  Recovery = 107.04%
Ni 231.604†            17454.2      500.72 µg/L         8.166      500.72 ppb          8.166   1.63%
   QC value within limits for Ni 231.604  Recovery = 100.14%
P 214.914†              2471.5      2507.2 µg/L         44.61      2507.2 ppb          44.61   1.78%
   QC value within limits for P 214.914  Recovery = 100.29%
Pb 220.353†             2494.5      520.79 µg/L         7.502      520.79 ppb          7.502   1.44%
   QC value within limits for Pb 220.353  Recovery = 104.16%
S 181.975 Axial†         785.0      2467.3 µg/L         57.93      2467.3 ppb          57.93   2.35%
   QC value within limits for S 181.975 Axial  Recovery = 98.69%
Sb 206.836†              787.4      490.09 µg/L         8.158      490.09 ppb          8.158   1.66%
   QC value within limits for Sb 206.836  Recovery = 98.02%
Se 196.026†             1948.1        2540 µg/L          38.0        2540 ppb           38.0   1.50%
   QC value within limits for Se 196.026  Recovery = 101.47%
SiO2†                  58220.1       10531 µg/L         145.1       10531 ppb          145.1   1.38%
   QC value within limits for SiO2  Recovery = 98.47%
Si 251.611†           170587.3      4907.0 µg/L         61.56      4907.0 ppb          61.56   1.25%
   QC value within limits for Si 251.611  Recovery = 98.14%
Sn 189.927†             1277.2      510.20 µg/L        11.354      510.20 ppb         11.354   2.23%
   QC value within limits for Sn 189.927  Recovery = 102.04%
Sr 421.552†            44172.5      510.01 µg/L         2.664      510.01 ppb          2.664   0.52%
   QC value within limits for Sr 421.552  Recovery = 102.00%
Ti 334.940†           269081.7      496.49 µg/L         6.280      496.49 ppb          6.280   1.26%
   QC value within limits for Ti 334.940  Recovery = 99.30%
Tl 190.801†              423.1      503.94 µg/L         8.496      503.94 ppb          8.496   1.69%
   QC value within limits for Tl 190.801  Recovery = 100.79%
U 367.007†              1855.6      493.90 µg/L         4.587      493.90 ppb          4.587   0.93%
   QC value within limits for U 367.007  Recovery = 98.78%
V 292.402†             71371.8      505.84 µg/L         6.637      505.84 ppb          6.637   1.31%
   QC value within limits for V 292.402  Recovery = 101.17%
Zn 213.857†            41577.4      509.81 µg/L         7.356      509.81 ppb          7.356   1.44%
   QC value within limits for Zn 213.857  Recovery = 101.96%
All analyte(s) passed QC.
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Sequence No.: 7 **Autosampler Location: 10**
Sample ID: ICB **Date Collected: 11/6/2013 07:07:51**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23762.6	23762.6	100	%			07:08:38
1	Al 396.153Radial†	-111.4	-3.3	-7.0274	µg/L	-7.0274	ppb	07:08:38
1	Ca 317.933Radial†	90.4	7.9	4.9728	µg/L	4.9728	ppb	07:08:58
1	Fe 238.204 Radial†	30.9	-2.1	-6.5401	µg/L	-6.5401	ppb	07:08:58
1	K 766.490 Radial†	719.6	-0.4	-0.4886	µg/L	-0.4886	ppb	07:08:38
1	Mg 279.077 IEC†	2.3	-0.9	-5.4788	µg/L	-5.4788	ppb	07:08:58
1	Na 589.592 Radial†	-64.0	-15.3	-21.332	µg/L	-21.332	ppb	07:08:38
1	Sr 421.552†	24.1	-2.8	-0.0326	µg/L	-0.0326	ppb	07:08:38
1	Sc 361.383	1343100.6	1343100.6	103.82	%			07:10:36
1	Y 371.029	791933.6	791933.6	103.69	%			07:10:36
1	Ag 328.068†	686.9	-13.5	-0.0833	µg/L	-0.0833	ppb	07:10:38
1	As 188.979†	-6.1	-2.2	-4.1469	µg/L	-4.1469	ppb	07:10:58
1	B 249.677†	443.7	150.1	1.7996	µg/L	1.7996	ppb	07:10:38
1	Ba 233.527†	-102.0	-10.6	-0.1430	µg/L	-0.1430	ppb	07:10:58
1	Be 313.107†	-8297.3	-64.1	-0.0271	µg/L	-0.0271	ppb	07:10:38
1	Cd 226.502†	-98.2	10.1	0.1525	µg/L	0.1525	ppb	07:10:58
1	Co 228.616†	-90.5	14.3	0.4084	µg/L	0.4084	ppb	07:10:58
1	Cr 267.716†	118.3	0.6	0.0130	µg/L	0.0130	ppb	07:10:58
1	Cu 324.752†	4220.6	-111.9	-0.7586	µg/L	-0.7586	ppb	07:10:38
1	Mn 257.610†	198.9	-0.5	-0.0016	µg/L	-0.0016	ppb	07:10:58
1	Mo 202.031†	-9.5	2.5	0.2814	µg/L	0.2814	ppb	07:10:58
1	Ni 231.604†	-50.4	10.4	0.2987	µg/L	0.2987	ppb	07:10:58
1	P 214.914†	-72.8	-5.4	-5.5424	µg/L	-5.5424	ppb	07:10:58
1	Pb 220.353†	75.5	-41.5	-8.6486	µg/L	-8.6486	ppb	07:10:58
1	S 181.975 Axial†	37.7	8.2	25.924	µg/L	25.924	ppb	07:10:58
1	Sb 206.836†	1.2	-3.4	-2.1143	µg/L	-2.1143	ppb	07:10:58
1	Se 196.026†	13.0	0.7	0.939	µg/L	0.939	ppb	07:10:58
1	SiO2†	1988.7	-22.0	-3.9791	µg/L	-3.9791	ppb	07:10:38
1	Si 251.611†	446.1	36.7	1.0530	µg/L	1.0530	ppb	07:10:58
1	Sn 189.927†	7.1	6.1	2.4420	µg/L	2.4420	ppb	07:10:58
1	Ti 334.940†	1736.3	123.6	0.2309	µg/L	0.2309	ppb	07:10:38
1	Tl 190.801†	-14.9	3.6	4.3884	µg/L	4.3884	ppb	07:10:58
1	U 367.007†	286.1	-17.1	-4.8114	µg/L	-4.8114	ppb	07:10:38
1	V 292.402†	451.5	132.1	0.9212	µg/L	0.9212	ppb	07:10:38
1	Zn 213.857†	571.8	0.6	0.0068	µg/L	0.0068	ppb	07:10:58
2	Sc RADIAL	23338.4	23338.4	98.3	%			07:09:18
2	Al 396.153Radial†	-110.9	-4.8	-10.180	µg/L	-10.180	ppb	07:09:18
2	Ca 317.933Radial†	86.3	5.3	3.3748	µg/L	3.3748	ppb	07:09:38
2	Fe 238.204 Radial†	30.8	-1.6	-5.0727	µg/L	-5.0727	ppb	07:09:38
2	K 766.490 Radial†	747.1	40.7	55.661	µg/L	55.661	ppb	07:09:18
2	Mg 279.077 IEC†	1.0	-2.1	-13.370	µg/L	-13.370	ppb	07:09:38
2	Na 589.592 Radial†	-44.9	3.0	4.1381	µg/L	4.1381	ppb	07:09:18
2	Sr 421.552†	23.0	-3.4	-0.0393	µg/L	-0.0393	ppb	07:09:18
2	Sc 361.383	1340189.5	1340189.5	103.59	%			07:11:00
2	Y 371.029	789943.6	789943.6	103.43	%			07:11:00
2	Ag 328.068†	478.4	-213.4	-1.4426	µg/L	-1.4426	ppb	07:11:02
2	As 188.979†	-0.0	3.6	6.8428	µg/L	6.8428	ppb	07:11:22
2	B 249.677†	330.6	41.9	0.4929	µg/L	0.4929	ppb	07:11:02
2	Ba 233.527†	-94.7	-3.7	-0.0518	µg/L	-0.0518	ppb	07:11:22
2	Be 313.107†	-8324.2	-107.4	-0.0454	µg/L	-0.0454	ppb	07:11:02
2	Cd 226.502†	-104.8	3.6	0.0547	µg/L	0.0547	ppb	07:11:22
2	Co 228.616†	-87.5	17.0	0.4864	µg/L	0.4864	ppb	07:11:22
2	Cr 267.716†	112.7	-4.6	-0.0956	µg/L	-0.0956	ppb	07:11:22
2	Cu 324.752†	4300.5	-26.0	-0.1676	µg/L	-0.1676	ppb	07:11:02
2	Mn 257.610†	204.9	5.6	0.0164	µg/L	0.0164	ppb	07:11:22
2	Mo 202.031†	1.7	13.4	1.4928	µg/L	1.4928	ppb	07:11:22
2	Ni 231.604†	-47.7	12.9	0.3710	µg/L	0.3710	ppb	07:11:22
2	P 214.914†	-73.5	-6.3	-6.4101	µg/L	-6.4101	ppb	07:11:22
2	Pb 220.353†	106.3	-11.7	-2.4407	µg/L	-2.4407	ppb	07:11:22

2	S 181.975 Axial†	26.5	-2.5	-7.8606	µg/L	-7.8606	ppb	07:11:22
2	Sb 206.836†	6.0	1.3	0.8182	µg/L	0.8182	ppb	07:11:22
2	Se 196.026†	14.9	2.6	3.38	µg/L	3.38	ppb	07:11:22
2	SiO2†	1975.4	-30.7	-5.5471	µg/L	-5.5471	ppb	07:11:02
2	Si 251.611†	429.2	21.4	0.5955	µg/L	0.5955	ppb	07:11:22
2	Sn 189.927†	0.3	-0.4	-0.1733	µg/L	-0.1733	ppb	07:11:22
2	Ti 334.940†	1672.6	65.7	0.1120	µg/L	0.1120	ppb	07:11:02
2	Tl 190.801†	-16.1	2.4	2.9110	µg/L	2.9110	ppb	07:11:22
2	U 367.007†	372.2	66.6	18.850	µg/L	18.850	ppb	07:11:02
2	V 292.402†	280.0	-32.5	-0.1985	µg/L	-0.1985	ppb	07:11:02
2	Zn 213.857†	576.9	6.6	0.0806	µg/L	0.0806	ppb	07:11:22
3	Sc RADIAL	23356.3	23356.3	98.4	%			07:09:58
3	Al 396.153Radial†	-116.2	-10.1	-21.237	µg/L	-21.237	ppb	07:09:58
3	Ca 317.933Radial†	90.6	9.7	6.1236	µg/L	6.1236	ppb	07:10:18
3	Fe 238.204 Radial†	29.4	-3.1	-9.7682	µg/L	-9.7682	ppb	07:10:18
3	K 766.490 Radial†	709.4	1.9	2.5187	µg/L	2.5187	ppb	07:09:58
3	Mg 279.077 IEC†	-0.3	-3.4	-22.005	µg/L	-22.005	ppb	07:10:18
3	Na 589.592 Radial†	-36.9	11.2	15.537	µg/L	15.537	ppb	07:09:58
3	Sr 421.552†	36.6	10.4	0.1195	µg/L	0.1195	ppb	07:09:58
3	Sc 361.383	1338233.4	1338233.4	103.44	%			07:11:24
3	Y 371.029	789748.9	789748.9	103.40	%			07:11:24
3	Ag 328.068†	548.4	-145.1	-0.9866	µg/L	-0.9866	ppb	07:11:26
3	As 188.979†	-9.2	-5.2	-9.7783	µg/L	-9.7783	ppb	07:11:46
3	B 249.677†	353.6	64.5	0.7999	µg/L	0.7999	ppb	07:11:26
3	Ba 233.527†	-101.3	-10.2	-0.1393	µg/L	-0.1393	ppb	07:11:46
3	Be 313.107†	-8193.0	7.6	0.0032	µg/L	0.0032	ppb	07:11:26
3	Cd 226.502†	-100.4	7.7	0.1157	µg/L	0.1157	ppb	07:11:46
3	Co 228.616†	-87.2	17.2	0.4897	µg/L	0.4897	ppb	07:11:46
3	Cr 267.716†	131.2	13.4	0.2273	µg/L	0.2273	ppb	07:11:46
3	Cu 324.752†	4241.0	-77.4	-0.5140	µg/L	-0.5140	ppb	07:11:26
3	Mn 257.610†	228.1	28.3	0.0819	µg/L	0.0819	ppb	07:11:46
3	Mo 202.031†	-13.1	-1.0	-0.1096	µg/L	-0.1096	ppb	07:11:46
3	Ni 231.604†	-67.3	-6.1	-0.1746	µg/L	-0.1746	ppb	07:11:46
3	P 214.914†	-68.8	-1.8	-1.8075	µg/L	-1.8075	ppb	07:11:46
3	Pb 220.353†	102.4	-15.3	-3.2040	µg/L	-3.2040	ppb	07:11:46
3	S 181.975 Axial†	29.3	0.2	0.6146	µg/L	0.6146	ppb	07:11:46
3	Sb 206.836†	-0.8	-5.3	-3.3127	µg/L	-3.3127	ppb	07:11:46
3	Se 196.026†	17.4	5.0	6.47	µg/L	6.47	ppb	07:11:46
3	SiO2†	1929.2	-72.5	-13.105	µg/L	-13.105	ppb	07:11:26
3	Si 251.611†	405.9	-0.6	-0.0162	µg/L	-0.0162	ppb	07:11:46
3	Sn 189.927†	-1.0	-1.7	-0.6711	µg/L	-0.6711	ppb	07:11:46
3	Ti 334.940†	1874.0	262.8	0.4747	µg/L	0.4747	ppb	07:11:26
3	Tl 190.801†	-11.6	6.8	8.1837	µg/L	8.1837	ppb	07:11:46
3	U 367.007†	380.0	74.6	21.157	µg/L	21.157	ppb	07:11:26
3	V 292.402†	417.7	101.0	0.7146	µg/L	0.7146	ppb	07:11:26
3	Zn 213.857†	576.1	6.6	0.0857	µg/L	0.0857	ppb	07:11:46

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1340507.8	103.62	%	0.189				0.18%
Sc RADIAL	23485.7	98.9	%	1.01				1.02%
Y 371.029	790542.0	103.51	%	0.158				0.15%
Ag 328.068†	-124.0	-0.8375	µg/L	0.69182	-0.8375	ppb	0.69182	82.60%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-6.1	-12.815	µg/L	7.4622	-12.815	ppb	7.4622	58.23%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.3	-2.3608	µg/L	8.45329	-2.3608	ppb	8.45329	358.07%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	85.5	1.0308	µg/L	0.68325	1.0308	ppb	0.68325	66.29%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-8.2	-0.1113	µg/L	0.05160	-0.1113	ppb	0.05160	46.34%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-54.7	-0.0231	µg/L	0.02455	-0.0231	ppb	0.02455	106.29%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	7.6	4.8237	µg/L	1.38049	4.8237	ppb	1.38049	28.62%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	7.1	0.1076	µg/L	0.04940	0.1076	ppb	0.04940	45.89%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	16.2	0.4615	µg/L	0.04603	0.4615	ppb	0.04603	9.97%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                3.1      0.0483 µg/L       0.16429      0.0483 ppb        0.16429 340.44%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -71.8     -0.4801 µg/L       0.29699     -0.4801 ppb        0.29699  61.86%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -2.3     -7.1270 µg/L       2.40212     -7.1270 ppb        2.40212  33.70%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         14.1      19.230 µg/L       31.5858      19.230 ppb        31.5858 164.25%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.1     -13.618 µg/L        8.2657     -13.618 ppb         8.2657  60.70%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               11.1      0.0322 µg/L       0.04392      0.0322 ppb        0.04392 136.25%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                5.0      0.5549 µg/L       0.83544      0.5549 ppb        0.83544 150.57%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -0.4     -0.5524 µg/L      18.87674     -0.5524 ppb       18.87674 >999.9%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                5.8      0.1650 µg/L       0.29633      0.1650 ppb        0.29633 179.54%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -4.5     -4.5867 µg/L       2.44560     -4.5867 ppb        2.44560  53.32%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -22.8     -4.7645 µg/L       3.38537     -4.7645 ppb        3.38537  71.05%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           2.0      6.2261 µg/L      17.57745      6.2261 ppb       17.57745 282.32%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -2.5     -1.5363 µg/L       2.12523     -1.5363 ppb        2.12523 138.34%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                2.8        3.60 µg/L         2.771        3.60 ppb          2.771  77.09%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -41.8     -7.5439 µg/L       4.87982     -7.5439 ppb        4.87982  64.69%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               19.2      0.5441 µg/L       0.53648      0.5441 ppb        0.53648  98.60%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                1.3      0.5325 µg/L       1.67226      0.5325 ppb        1.67226 314.03%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                1.4      0.0159 µg/L       0.08982      0.0159 ppb        0.08982 565.54%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              150.7      0.2725 µg/L       0.18488      0.2725 ppb        0.18488  67.84%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                4.3      5.1611 µg/L       2.71992      5.1611 ppb        2.71992  52.70%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                41.4      11.732 µg/L       14.3733      11.732 ppb        14.3733 122.51%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                66.9      0.4791 µg/L       0.59583      0.4791 ppb        0.59583 124.36%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                4.6      0.0577 µg/L       0.04418      0.0577 ppb        0.04418  76.56%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

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Sequence No.: 8 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/6/2013 07:11:55**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23954.4	23954.4	101	%			07:12:43
1	Al 396.153Radial†	-20.8	87.4	183.36	µg/L	183.36	ppb	07:12:43
1	Ca 317.933Radial†	430.6	344.4	217.01	µg/L	217.01	ppb	07:13:03
1	Fe 238.204 Radial†	64.3	30.7	94.953	µg/L	94.953	ppb	07:13:03
1	K 766.490 Radial†	840.5	113.7	155.72	µg/L	155.72	ppb	07:12:43
1	Mg 279.077 IEC†	50.2	46.6	300.42	µg/L	300.42	ppb	07:13:03
1	Na 589.592 Radial†	172.5	219.6	305.38	µg/L	305.38	ppb	07:12:43
1	Sr 421.552†	465.9	435.0	5.0210	µg/L	5.0210	ppb	07:12:43
1	Sc 361.383	1352452.9	1352452.9	104.54	%			07:14:40
1	Y 371.029	797657.1	797657.1	104.44	%			07:14:40
1	Ag 328.068†	1636.7	890.4	5.9339	µg/L	5.9339	ppb	07:14:42
1	As 188.979†	14.0	17.1	32.204	µg/L	32.204	ppb	07:15:02
1	B 249.677†	4649.1	4169.9	48.844	µg/L	48.844	ppb	07:14:42
1	Ba 233.527†	290.2	365.2	5.0509	µg/L	5.0509	ppb	07:15:02
1	Be 313.107†	4230.0	11974.2	5.0590	µg/L	5.0590	ppb	07:14:42
1	Cd 226.502†	251.7	345.6	5.1488	µg/L	5.1488	ppb	07:15:02
1	Co 228.616†	85.3	183.0	5.2301	µg/L	5.2301	ppb	07:15:02
1	Cr 267.716†	419.9	288.3	5.1632	µg/L	5.1632	ppb	07:15:02
1	Cu 324.752†	5700.2	1275.3	8.6441	µg/L	8.6441	ppb	07:14:42
1	Mn 257.610†	3937.8	3574.6	10.271	µg/L	10.271	ppb	07:15:02
1	Mo 202.031†	88.9	96.7	10.812	µg/L	10.812	ppb	07:15:02
1	Ni 231.604†	120.4	174.2	4.9960	µg/L	4.9960	ppb	07:15:02
1	P 214.914†	86.0	147.0	149.71	µg/L	149.71	ppb	07:15:02
1	Pb 220.353†	153.5	32.6	6.7916	µg/L	6.7916	ppb	07:15:02
1	S 181.975 Axial†	62.2	31.4	98.614	µg/L	98.614	ppb	07:15:02
1	Sb 206.836†	20.0	14.6	9.1464	µg/L	9.1464	ppb	07:15:02
1	Se 196.026†	43.3	29.6	38.6	µg/L	38.6	ppb	07:15:02
1	SiO2†	3315.3	1233.8	223.05	µg/L	223.05	ppb	07:14:42
1	Si 251.611†	4002.5	3435.7	98.816	µg/L	98.816	ppb	07:14:42
1	Sn 189.927†	33.5	31.3	12.525	µg/L	12.525	ppb	07:15:02
1	Ti 334.940†	4442.6	2700.7	4.9731	µg/L	4.9731	ppb	07:14:42
1	Tl 190.801†	1.2	19.1	22.955	µg/L	22.955	ppb	07:15:02
1	U 367.007†	442.8	130.8	36.408	µg/L	36.408	ppb	07:14:42
1	V 292.402†	1080.0	730.3	5.2711	µg/L	5.2711	ppb	07:14:42
1	Zn 213.857†	1429.5	817.2	10.043	µg/L	10.043	ppb	07:15:02
2	Sc RADIAL	22130.7	22130.7	93.2	%			07:13:23
2	Al 396.153Radial†	-11.0	96.2	201.87	µg/L	201.87	ppb	07:13:23
2	Ca 317.933Radial†	374.0	318.8	200.87	µg/L	200.87	ppb	07:13:43
2	Fe 238.204 Radial†	62.0	33.6	103.85	µg/L	103.85	ppb	07:13:43
2	K 766.490 Radial†	870.4	214.5	293.54	µg/L	293.54	ppb	07:13:23
2	Mg 279.077 IEC†	50.5	51.1	329.10	µg/L	329.10	ppb	07:13:43
2	Na 589.592 Radial†	168.5	229.4	318.96	µg/L	318.96	ppb	07:13:23
2	Sr 421.552†	450.6	456.5	5.2700	µg/L	5.2700	ppb	07:13:23
2	Sc 361.383	1364955.8	1364955.8	105.51	%			07:15:04
2	Y 371.029	804058.6	804058.6	105.28	%			07:15:04
2	Ag 328.068†	1386.7	639.1	4.2308	µg/L	4.2308	ppb	07:15:06
2	As 188.979†	13.5	16.5	31.085	µg/L	31.085	ppb	07:15:27
2	B 249.677†	4583.2	4066.7	47.537	µg/L	47.537	ppb	07:15:06
2	Ba 233.527†	289.1	361.7	5.0032	µg/L	5.0032	ppb	07:15:27
2	Be 313.107†	4294.8	11998.6	5.0692	µg/L	5.0692	ppb	07:15:06
2	Cd 226.502†	260.7	351.9	5.2422	µg/L	5.2422	ppb	07:15:27
2	Co 228.616†	89.7	186.4	5.3281	µg/L	5.3281	ppb	07:15:27
2	Cr 267.716†	428.8	293.0	5.2301	µg/L	5.2301	ppb	07:15:27
2	Cu 324.752†	5889.3	1404.6	9.5317	µg/L	9.5317	ppb	07:15:06
2	Mn 257.610†	3917.5	3520.8	10.116	µg/L	10.116	ppb	07:15:27
2	Mo 202.031†	81.1	88.6	9.9081	µg/L	9.9081	ppb	07:15:27
2	Ni 231.604†	144.9	196.3	5.6312	µg/L	5.6312	ppb	07:15:27
2	P 214.914†	86.5	146.7	149.40	µg/L	149.40	ppb	07:15:27
2	Pb 220.353†	151.7	29.6	6.1365	µg/L	6.1365	ppb	07:15:27

2	S 181.975 Axial†	69.4	37.7	118.52 µg/L	118.52 ppb	07:15:27
2	Sb 206.836†	13.1	7.9	4.9500 µg/L	4.9500 ppb	07:15:27
2	Se 196.026†	46.6	32.3	42.1 µg/L	42.1 ppb	07:15:27
2	SiO2†	3148.8	1046.9	189.28 µg/L	189.28 ppb	07:15:06
2	Si 251.611†	4044.5	3440.5	98.965 µg/L	98.965 ppb	07:15:06
2	Sn 189.927†	26.8	24.6	9.8546 µg/L	9.8546 ppb	07:15:27
2	Ti 334.940†	4113.8	2350.2	4.3108 µg/L	4.3108 ppb	07:15:06
2	Tl 190.801†	1.6	19.5	23.373 µg/L	23.373 ppb	07:15:27
2	U 367.007†	549.4	228.0	63.851 µg/L	63.851 ppb	07:15:06
2	V 292.402†	1144.6	782.0	5.6391 µg/L	5.6391 ppb	07:15:06
2	Zn 213.857†	1431.3	806.4	9.9031 µg/L	9.9031 ppb	07:15:27
3	Sc RADIAL	23392.4	23392.4	98.5 %		07:14:03
3	Al 396.153Radial†	-6.9	101.0	211.97 µg/L	211.97 ppb	07:14:03
3	Ca 317.933Radial†	434.0	358.1	225.64 µg/L	225.64 ppb	07:14:23
3	Fe 238.204 Radial†	64.3	32.2	99.784 µg/L	99.784 ppb	07:14:23
3	K 766.490 Radial†	851.8	145.2	198.81 µg/L	198.81 ppb	07:14:03
3	Mg 279.077 IEC†	57.9	55.6	358.50 µg/L	358.50 ppb	07:14:23
3	Na 589.592 Radial†	149.5	200.4	278.63 µg/L	278.63 ppb	07:14:03
3	Sr 421.552†	454.3	434.3	5.0131 µg/L	5.0131 ppb	07:14:03
3	Sc 361.383	1346637.1	1346637.1	104.09 %		07:15:29
3	Y 371.029	794242.8	794242.8	103.99 %		07:15:29
3	Ag 328.068†	1524.3	789.2	5.2401 µg/L	5.2401 ppb	07:15:31
3	As 188.979†	16.2	19.2	36.119 µg/L	36.119 ppb	07:15:51
3	B 249.677†	4581.5	4124.1	48.268 µg/L	48.268 ppb	07:15:31
3	Ba 233.527†	276.8	353.6	4.8911 µg/L	4.8911 ppb	07:15:51
3	Be 313.107†	4087.8	11855.2	5.0086 µg/L	5.0086 ppb	07:15:31
3	Cd 226.502†	257.4	352.1	5.2452 µg/L	5.2452 ppb	07:15:51
3	Co 228.616†	83.9	182.0	5.2020 µg/L	5.2020 ppb	07:15:51
3	Cr 267.716†	405.3	275.9	4.9275 µg/L	4.9275 ppb	07:15:51
3	Cu 324.752†	5824.9	1418.7	9.6226 µg/L	9.6226 ppb	07:15:31
3	Mn 257.610†	3852.9	3509.3	10.082 µg/L	10.082 ppb	07:15:51
3	Mo 202.031†	85.2	93.5	10.458 µg/L	10.458 ppb	07:15:51
3	Ni 231.604†	132.7	186.4	5.3484 µg/L	5.3484 ppb	07:15:51
3	P 214.914†	85.3	146.6	149.37 µg/L	149.37 ppb	07:15:51
3	Pb 220.353†	152.1	31.9	6.6308 µg/L	6.6308 ppb	07:15:51
3	S 181.975 Axial†	62.8	32.2	101.32 µg/L	101.32 ppb	07:15:51
3	Sb 206.836†	12.0	7.0	4.4056 µg/L	4.4056 ppb	07:15:51
3	Se 196.026†	42.0	28.5	37.2 µg/L	37.2 ppb	07:15:51
3	SiO2†	3211.3	1147.5	207.47 µg/L	207.47 ppb	07:15:31
3	Si 251.611†	3996.5	3446.4	99.129 µg/L	99.129 ppb	07:15:31
3	Sn 189.927†	24.2	22.5	9.0094 µg/L	9.0094 ppb	07:15:51
3	Ti 334.940†	4163.9	2451.4	4.5027 µg/L	4.5027 ppb	07:15:31
3	Tl 190.801†	2.4	20.3	24.406 µg/L	24.406 ppb	07:15:51
3	U 367.007†	513.9	200.9	56.209 µg/L	56.209 ppb	07:15:31
3	V 292.402†	1120.8	773.9	5.5833 µg/L	5.5833 ppb	07:15:31
3	Zn 213.857†	1415.7	809.8	9.9473 µg/L	9.9473 ppb	07:15:51

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1354681.9	104.71	%	0.724				0.69%
Sc RADIAL	23159.2	97.5	%	3.93				4.03%
Y 371.029	798652.8	104.57	%	0.652				0.62%
Ag 328.068†	772.9	5.1349	µg/L	0.85641	5.1349	ppb	0.85641	16.68%
QC value within limits for Ag 328.068 Recovery = 102.70%								
Al 396.153Radial†	94.9	199.07	µg/L	14.506	199.07	ppb	14.506	7.29%
QC value within limits for Al 396.153Radial Recovery = 99.53%								
As 188.979†	17.6	33.136	µg/L	2.6435	33.136	ppb	2.6435	7.98%
QC value within limits for As 188.979 Recovery = 110.45%								
B 249.677†	4120.2	48.216	µg/L	0.6553	48.216	ppb	0.6553	1.36%
QC value within limits for B 249.677 Recovery = 96.43%								
Ba 233.527†	360.2	4.9817	µg/L	0.08203	4.9817	ppb	0.08203	1.65%
QC value within limits for Ba 233.527 Recovery = 99.63%								
Be 313.107†	11942.7	5.0456	µg/L	0.03242	5.0456	ppb	0.03242	0.64%
QC value within limits for Be 313.107 Recovery = 100.91%								
Ca 317.933Radial†	340.4	214.51	µg/L	12.570	214.51	ppb	12.570	5.86%
QC value within limits for Ca 317.933Radial Recovery = 107.25%								
Cd 226.502†	349.8	5.2121	µg/L	0.05485	5.2121	ppb	0.05485	1.05%
QC value within limits for Cd 226.502 Recovery = 104.24%								
Co 228.616†	183.8	5.2534	µg/L	0.06622	5.2534	ppb	0.06622	1.26%

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   QC value within limits for Co 228.616  Recovery = 105.07%
Cr 267.716†              285.7      5.1070 µg/L       0.15898      5.1070 ppb        0.15898   3.11%
   QC value within limits for Cr 267.716  Recovery = 102.14%
Cu 324.752†             1366.2      9.2662 µg/L       0.54062      9.2662 ppb        0.54062   5.83%
   QC value within limits for Cu 324.752  Recovery = 92.66%
Fe 238.204 Radial†        32.2      99.530 µg/L        4.4551      99.530 ppb         4.4551   4.48%
   QC value within limits for Fe 238.204 Radial  Recovery = 99.53%
K 766.490 Radial†        157.8      216.02 µg/L        70.504      216.02 ppb         70.504  32.64%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 144.01%
Mg 279.077 IEC†           51.1      329.34 µg/L        29.042      329.34 ppb         29.042   8.82%
   QC value within limits for Mg 279.077 IEC  Recovery = 109.78%
Mn 257.610†             3534.9      10.156 µg/L        0.1011      10.156 ppb         0.1011   1.00%
   QC value within limits for Mn 257.610  Recovery = 101.56%
Mo 202.031†               92.9      10.393 µg/L        0.4556      10.393 ppb         0.4556   4.38%
   QC value within limits for Mo 202.031  Recovery = 103.93%
Na 589.592 Radial†       216.5      300.99 µg/L        20.521      300.99 ppb         20.521   6.82%
   QC value within limits for Na 589.592 Radial  Recovery = 100.33%
Ni 231.604†              185.6      5.3252 µg/L       0.31825      5.3252 ppb        0.31825   5.98%
   QC value within limits for Ni 231.604  Recovery = 106.50%
P 214.914†               146.7      149.49 µg/L         0.186      149.49 ppb          0.186   0.12%
   QC value within limits for P 214.914  Recovery = 99.66%
Pb 220.353†               31.4      6.5196 µg/L       0.34139      6.5196 ppb        0.34139   5.24%
   QC value less than the lower limit for Pb 220.353  Recovery = 65.20%
S 181.975 Axial†          33.8      106.15 µg/L        10.794      106.15 ppb         10.794  10.17%
   QC value within limits for S 181.975 Axial  Recovery = 106.15%
Sb 206.836†                9.8      6.1673 µg/L       2.59427      6.1673 ppb        2.59427  42.06%
   QC value less than the lower limit for Sb 206.836  Recovery = 61.67%
Se 196.026†               30.1        39.3 µg/L          2.53        39.3 ppb           2.53   6.45%
   QC value greater than the upper limit for Se 196.026  Recovery = 130.89%
SiO2†                   1142.7      206.60 µg/L        16.902      206.60 ppb         16.902   8.18%
   QC value within limits for SiO2  Recovery = 97.00%
Si 251.611†             3440.9      98.970 µg/L        0.1569      98.970 ppb         0.1569   0.16%
   QC value within limits for Si 251.611  Recovery = 98.97%
Sn 189.927†               26.2      10.463 µg/L        1.8351      10.463 ppb         1.8351  17.54%
   QC value within limits for Sn 189.927  Recovery = 104.63%
Sr 421.552†              441.9      5.1014 µg/L       0.14606      5.1014 ppb        0.14606   2.86%
   QC value within limits for Sr 421.552  Recovery = 102.03%
Ti 334.940†             2500.7      4.5955 µg/L       0.34078      4.5955 ppb        0.34078   7.42%
   QC value within limits for Ti 334.940  Recovery = 91.91%
Tl 190.801†               19.7      23.578 µg/L        0.7469      23.578 ppb         0.7469   3.17%
   QC value within limits for Tl 190.801  Recovery = 117.89%
U 367.007†               186.6      52.156 µg/L       14.1633      52.156 ppb        14.1633  27.16%
   QC value within limits for U 367.007  Recovery = 104.31%
V 292.402†               762.1      5.4979 µg/L       0.19830      5.4979 ppb        0.19830   3.61%
   QC value within limits for V 292.402  Recovery = 109.96%
Zn 213.857†              811.1      9.9646 µg/L       0.07180      9.9646 ppb        0.07180   0.72%
   QC value within limits for Zn 213.857  Recovery = 99.65%
QC Failed.  Continue with analysis.
```

Sequence No.: 9 **Autosampler Location: 103**
Sample ID: ICSA **Date Collected: 11/6/2013 07:15:59**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22805.2	22805.2	96.1	%			07:16:32
1	Al 396.153Radial†	230903.5	240504.9	504900	µg/L	504900	ppb	07:16:30
1	Ca 317.933Radial†	742782.3	773238.7	487300	µg/L	487300	ppb	07:16:30
1	Fe 238.204 Radial†	59484.8	61897.4	191900	µg/L	191900	ppb	07:16:32
1	K 766.490 Radial†	689.8	-1.2	79.168	µg/L	79.168	ppb	07:16:32
1	Mg 279.077 IEC†	73882.6	76917.1	495640	µg/L	495640	ppb	07:16:32
1	Na 589.592 Radial†	-25.1	22.5	29.859	µg/L	29.859	ppb	07:16:32
1	Sr 421.552†	154.2	133.7	-2.2534	µg/L	-2.2534	ppb	07:16:32
1	Sc 361.383	1223207.7	1223207.7	94.551	%			07:16:58
1	Y 371.029	703920.1	703920.1	92.166	%			07:16:58
1	Ag 328.068†	2628.4	2104.7	-1.3026	µg/L	-1.3026	ppb	07:16:58
1	As 188.979†	-15.3	-12.5	-4.8357	µg/L	-4.8357	ppb	07:17:18
1	B 249.677†	59722.4	62887.1	18.652	µg/L	18.652	ppb	07:16:58
1	Ba 233.527†	151.9	248.3	1.1079	µg/L	1.1079	ppb	07:17:18
1	Be 313.107†	-8624.3	-1193.3	-0.5042	µg/L	-0.5042	ppb	07:16:58
1	Cd 226.502†	1432.2	1619.5	-0.9295	µg/L	-0.9295	ppb	07:17:18
1	Co 228.616†	-42.4	56.6	-0.0199	µg/L	-0.0199	ppb	07:17:18
1	Cr 267.716†	122.3	15.9	1.5761	µg/L	1.5761	ppb	07:17:18
1	Cu 324.752†	-926.8	-5157.5	-4.9431	µg/L	-4.9431	ppb	07:17:18
1	Mn 257.610†	3762.2	3786.8	0.1139	µg/L	0.1139	ppb	07:16:58
1	Mo 202.031†	-206.8	-207.1	2.7530	µg/L	2.7530	ppb	07:17:18
1	Ni 231.604†	10.4	70.0	0.9968	µg/L	0.9968	ppb	07:17:18
1	P 214.914†	30.3	96.7	-48.782	µg/L	-48.782	ppb	07:17:18
1	Pb 220.353†	38.5	-73.5	-4.0175	µg/L	-4.0175	ppb	07:17:18
1	S 181.975 Axial†	80.1	56.6	13.794	µg/L	13.794	ppb	07:17:18
1	Sb 206.836†	12.4	8.5	2.3112	µg/L	2.3112	ppb	07:17:18
1	Se 196.026†	-34.5	-48.3	24.1	µg/L	24.1	ppb	07:17:18
1	SiO2†	1788.7	-45.8	-8.2655	µg/L	-8.2655	ppb	07:17:18
1	Si 251.611†	756.7	407.4	34.099	µg/L	34.099	ppb	07:17:18
1	Sn 189.927†	-92.5	-98.5	14.008	µg/L	14.008	ppb	07:17:18
1	Ti 334.940†	-9235.9	-11317.0	-0.9393	µg/L	-0.9393	ppb	07:16:58
1	Tl 190.801†	-20.6	-3.8	-27.342	µg/L	-27.342	ppb	07:17:18
1	U 367.007†	4155.9	4102.7	40.777	µg/L	40.777	ppb	07:16:58
1	V 292.402†	-3590.9	-4100.6	0.4093	µg/L	0.4093	ppb	07:17:18
1	Zn 213.857†	2685.6	2290.1	-5.6501	µg/L	-5.6501	ppb	07:17:18
2	Sc RADIAL	22451.8	22451.8	94.6	%			07:16:36
2	Al 396.153Radial†	234611.2	248209.5	521080	µg/L	521080	ppb	07:16:34
2	Ca 317.933Radial†	753689.5	796944.6	502240	µg/L	502240	ppb	07:16:34
2	Fe 238.204 Radial†	58898.6	62252.3	193000	µg/L	193000	ppb	07:16:36
2	K 766.490 Radial†	660.5	-20.8	52.870	µg/L	52.870	ppb	07:16:36
2	Mg 279.077 IEC†	73137.9	77340.2	498370	µg/L	498370	ppb	07:16:36
2	Na 589.592 Radial†	-45.5	0.5	-0.7589	µg/L	-0.7589	ppb	07:16:36
2	Sr 421.552†	148.7	130.4	-2.4079	µg/L	-2.4079	ppb	07:16:36
2	Sc 361.383	1231938.8	1231938.8	95.226	%			07:17:20
2	Y 371.029	708178.9	708178.9	92.723	%			07:17:20
2	Ag 328.068†	2904.0	2374.4	0.1557	µg/L	0.1557	ppb	07:17:20
2	As 188.979†	-23.0	-20.5	-19.822	µg/L	-19.822	ppb	07:17:40
2	B 249.677†	58967.1	61646.2	-0.1430	µg/L	-0.1430	ppb	07:17:20
2	Ba 233.527†	137.9	232.5	0.8785	µg/L	0.8785	ppb	07:17:40
2	Be 313.107†	-8911.6	-1430.4	-0.6043	µg/L	-0.6043	ppb	07:17:20
2	Cd 226.502†	1488.3	1667.7	-0.3542	µg/L	-0.3542	ppb	07:17:40
2	Co 228.616†	-45.3	53.9	-0.1055	µg/L	-0.1055	ppb	07:17:40
2	Cr 267.716†	132.8	26.0	1.8068	µg/L	1.8068	ppb	07:17:40
2	Cu 324.752†	-894.7	-5116.9	-4.5287	µg/L	-4.5287	ppb	07:17:40
2	Mn 257.610†	3737.7	3732.9	-0.0991	µg/L	-0.0991	ppb	07:17:20
2	Mo 202.031†	-180.9	-178.3	6.1103	µg/L	6.1103	ppb	07:17:40
2	Ni 231.604†	28.6	89.0	1.5372	µg/L	1.5372	ppb	07:17:40
2	P 214.914†	59.6	127.3	-15.599	µg/L	-15.599	ppb	07:17:40
2	Pb 220.353†	39.3	-72.9	-3.2816	µg/L	-3.2816	ppb	07:17:40

2	S 181.975 Axial†	76.9	52.7	-2.2694	µg/L	-2.2694	ppb	07:17:40
2	Sb 206.836†	-4.2	-8.9	-8.5600	µg/L	-8.5600	ppb	07:17:40
2	Se 196.026†	-34.5	-48.0	24.9	µg/L	24.9	ppb	07:17:40
2	SiO2†	1817.8	-28.7	-5.1705	µg/L	-5.1705	ppb	07:17:40
2	Si 251.611†	761.5	406.7	34.162	µg/L	34.162	ppb	07:17:40
2	Sn 189.927†	-95.6	-101.1	14.486	µg/L	14.486	ppb	07:17:40
2	Ti 334.940†	-9076.6	-11080.5	0.2559	µg/L	0.2559	ppb	07:17:20
2	Tl 190.801†	-13.0	4.4	-18.158	µg/L	-18.158	ppb	07:17:40
2	U 367.007†	3999.8	3907.6	-23.282	µg/L	-23.282	ppb	07:17:20
2	V 292.402†	-3552.5	-4033.4	1.0498	µg/L	1.0498	ppb	07:17:40
2	Zn 213.857†	2667.8	2251.3	-6.3250	µg/L	-6.3250	ppb	07:17:40
3	Sc RADIAL	22338.2	22338.2	94.1	%			07:16:40
3	Al 396.153Radial†	231148.4	245790.8	516000	µg/L	516000	ppb	07:16:38
3	Ca 317.933Radial†	746861.9	793741.4	500220	µg/L	500220	ppb	07:16:38
3	Fe 238.204 Radial†	58762.5	62424.5	193540	µg/L	193540	ppb	07:16:40
3	K 766.490 Radial†	634.3	-45.1	19.771	µg/L	19.771	ppb	07:16:40
3	Mg 279.077 IEC†	73102.4	77695.9	500660	µg/L	500660	ppb	07:16:40
3	Na 589.592 Radial†	-9.2	38.9	52.525	µg/L	52.525	ppb	07:16:40
3	Sr 421.552†	200.0	185.8	-1.7530	µg/L	-1.7530	ppb	07:16:40
3	Sc 361.383	1219337.2	1219337.2	94.252	%			07:17:42
3	Y 371.029	701824.6	701824.6	91.892	%			07:17:42
3	Ag 328.068†	2908.6	2410.8	0.4410	µg/L	0.4410	ppb	07:17:42
3	As 188.979†	-13.6	-10.8	-1.4688	µg/L	-1.4688	ppb	07:18:03
3	B 249.677†	58375.6	61658.7	-1.9978	µg/L	-1.9978	ppb	07:17:42
3	Ba 233.527†	147.4	244.1	1.0304	µg/L	1.0304	ppb	07:18:03
3	Be 313.107†	-8582.2	-1177.6	-0.4975	µg/L	-0.4975	ppb	07:17:42
3	Cd 226.502†	1417.0	1608.1	-1.3127	µg/L	-1.3127	ppb	07:18:03
3	Co 228.616†	-54.2	43.9	-0.3979	µg/L	-0.3979	ppb	07:18:03
3	Cr 267.716†	141.3	36.5	1.9899	µg/L	1.9899	ppb	07:18:03
3	Cu 324.752†	-925.6	-5159.3	-4.7269	µg/L	-4.7269	ppb	07:18:03
3	Mn 257.610†	3749.4	3785.9	-0.0077	µg/L	-0.0077	ppb	07:17:42
3	Mo 202.031†	-196.2	-196.5	4.1885	µg/L	4.1885	ppb	07:18:03
3	Ni 231.604†	28.1	88.8	1.5271	µg/L	1.5271	ppb	07:18:03
3	P 214.914†	14.0	79.6	-66.055	µg/L	-66.055	ppb	07:18:03
3	Pb 220.353†	25.3	-87.4	-6.4945	µg/L	-6.4945	ppb	07:18:03
3	S 181.975 Axial†	69.0	45.1	-25.364	µg/L	-25.364	ppb	07:18:03
3	Sb 206.836†	13.9	10.2	3.3506	µg/L	3.3506	ppb	07:18:03
3	Se 196.026†	-45.5	-60.1	9.42	µg/L	9.42	ppb	07:18:03
3	SiO2†	1810.5	-16.6	-2.9920	µg/L	-2.9920	ppb	07:18:03
3	Si 251.611†	748.2	400.9	34.084	µg/L	34.084	ppb	07:18:03
3	Sn 189.927†	-111.3	-118.8	7.2305	µg/L	7.2305	ppb	07:18:03
3	Ti 334.940†	-8658.7	-10735.6	0.7705	µg/L	0.7705	ppb	07:17:42
3	Tl 190.801†	-13.7	3.4	-19.172	µg/L	-19.172	ppb	07:18:03
3	U 367.007†	3971.3	3920.8	-22.042	µg/L	-22.042	ppb	07:17:42
3	V 292.402†	-3577.6	-4098.6	0.6520	µg/L	0.6520	ppb	07:18:03
3	Zn 213.857†	2686.0	2299.6	-5.8431	µg/L	-5.8431	ppb	07:18:03

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1224827.9	94.676	%	0.4990				0.53%
Sc RADIAL	22531.7	94.9	%	1.03				1.08%
Y 371.029	704641.2	92.260	%	0.4239				0.46%
Ag 328.068†	2296.6	-0.2353	µg/L	0.93524	-0.2353	ppb	0.93524	397.44%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	244835.1	513990	µg/L	8271.7	513990	ppb	8271.7	1.61%
QC value within limits for Al 396.153Radial Recovery = 102.80%								
As 188.979†	-14.6	-8.7087	µg/L	9.77015	-8.7087	ppb	9.77015	112.19%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	62064.0	5.5036	µg/L	11.42417	5.5036	ppb	11.42417	207.58%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	241.6	1.0056	µg/L	0.11667	1.0056	ppb	0.11667	11.60%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1267.1	-0.5353	µg/L	0.05984	-0.5353	ppb	0.05984	11.18%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	787974.9	496590	µg/L	8107.3	496590	ppb	8107.3	1.63%
QC value within limits for Ca 317.933Radial Recovery = 99.32%								
Cd 226.502†	1631.8	-0.8655	µg/L	0.48248	-0.8655	ppb	0.48248	55.75%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	51.5	-0.1744	µg/L	0.19818	-0.1744	ppb	0.19818	113.60%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               26.2      1.7909 µg/L       0.20736      1.7909 ppb        0.20736  11.58%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -5144.6     -4.7329 µg/L       0.20727     -4.7329 ppb        0.20727   4.38%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†     62191.4      192810 µg/L         833.2      192810 ppb          833.2   0.43%
   QC value within limits for Fe 238.204 Radial  Recovery = 96.41%
K 766.490 Radial†        -22.4      50.603 µg/L       29.7634      50.603 ppb        29.7634  58.82%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†        77317.8      498220 µg/L        2512.4      498220 ppb         2512.4   0.50%
   QC value within limits for Mg 279.077 IEC  Recovery = 99.64%
Mn 257.610†             3768.5      0.0023 µg/L       0.10684      0.0023 ppb        0.10684 >999.9%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†             -193.9      4.3506 µg/L       1.68453      4.3506 ppb        1.68453  38.72%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        20.6      27.208 µg/L       26.7405      27.208 ppb        26.7405  98.28%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               82.6      1.3537 µg/L       0.30914      1.3537 ppb        0.30914  22.84%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               101.2     -43.479 µg/L       25.6427     -43.479 ppb        25.6427  58.98%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -77.9     -4.5979 µg/L       1.68321     -4.5979 ppb        1.68321  36.61%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          51.5     -4.6133 µg/L      19.68424     -4.6133 ppb       19.68424 426.69%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                3.3     -0.9661 µg/L       6.59701     -0.9661 ppb        6.59701 682.88%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -52.2        19.5 µg/L          8.71        19.5 ppb           8.71  44.76%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -30.4     -5.4760 µg/L       2.64997     -5.4760 ppb        2.64997  48.39%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              405.0      34.115 µg/L        0.0417      34.115 ppb         0.0417   0.12%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -106.2      11.908 µg/L        4.0580      11.908 ppb         4.0580  34.08%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              150.0     -2.1381 µg/L       0.34234     -2.1381 ppb        0.34234  16.01%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†           -11044.4      0.0290 µg/L       0.87716      0.0290 ppb        0.87716 >999.9%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                1.3     -21.557 µg/L        5.0352     -21.557 ppb         5.0352  23.36%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†              3977.0     -1.5155 µg/L      36.63186     -1.5155 ppb       36.63186 >999.9%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†             -4077.5      0.7037 µg/L       0.32338      0.7037 ppb        0.32338  45.96%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             2280.4     -5.9394 µg/L       0.34756     -5.9394 ppb        0.34756   5.85%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 10 **Autosampler Location: 104**
Sample ID: ICSAB **Date Collected: 11/6/2013 07:18:11**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22423.2	22423.2	94.4	%			07:18:43
1	Al 396.153Radial†	224145.7	237444.6	498470	µg/L	498470	ppb	07:18:41
1	Ca 317.933Radial†	722397.7	764828.1	482000	µg/L	482000	ppb	07:18:41
1	Fe 238.204 Radial†	57726.1	61090.2	189390	µg/L	189390	ppb	07:18:43
1	K 766.490 Radial†	4220.3	3749.3	5218.8	µg/L	5218.8	ppb	07:18:43
1	Mg 279.077 IEC†	71720.2	75937.8	489330	µg/L	489330	ppb	07:18:43
1	Na 589.592 Radial†	3350.0	3595.8	4998.3	µg/L	4998.3	ppb	07:18:43
1	Sr 421.552†	40827.3	43203.2	495.11	µg/L	495.11	ppb	07:18:43
1	Sc 361.383	1215835.7	1215835.7	93.981	%			07:19:09
1	Y 371.029	700358.8	700358.8	91.700	%			07:19:09
1	Ag 328.068†	39731.6	41601.0	264.28	µg/L	264.28	ppb	07:19:09
1	As 188.979†	225.3	243.3	482.12	µg/L	482.12	ppb	07:19:29
1	B 249.677†	95936.7	101803.8	487.29	µg/L	487.29	ppb	07:19:09
1	Ba 233.527†	32779.1	34966.2	481.38	µg/L	481.38	ppb	07:19:09
1	Be 313.107†	528103.7	569854.4	240.76	µg/L	240.76	ppb	07:19:09
1	Cd 226.502†	30351.5	32400.2	459.12	µg/L	459.12	ppb	07:19:29
1	Co 228.616†	14735.9	15781.2	448.87	µg/L	448.87	ppb	07:19:29
1	Cr 267.716†	24913.6	26395.8	476.11	µg/L	476.11	ppb	07:19:29
1	Cu 324.752†	75372.4	76022.3	543.22	µg/L	543.22	ppb	07:19:09
1	Mn 257.610†	153889.5	163553.2	459.64	µg/L	459.64	ppb	07:19:09
1	Mo 202.031†	3993.6	4261.0	501.24	µg/L	501.24	ppb	07:19:29
1	Ni 231.604†	14450.3	15434.8	441.81	µg/L	441.81	ppb	07:19:29
1	P 214.914†	2378.3	2595.3	2493.5	µg/L	2493.5	ppb	07:19:29
1	Pb 220.353†	2252.3	2282.3	487.81	µg/L	487.81	ppb	07:19:29
1	S 181.975 Axial†	832.0	857.2	2534.6	µg/L	2534.6	ppb	07:19:29
1	Sb 206.836†	756.6	800.5	495.80	µg/L	495.80	ppb	07:19:29
1	Se 196.026†	1630.8	1723.4	2330	µg/L	2330	ppb	07:19:29
1	SiO2†	56807.4	58508.1	10582	µg/L	10582	ppb	07:19:09
1	Si 251.611†	162201.5	172196.9	4974.7	µg/L	4974.7	ppb	07:19:09
1	Sn 189.927†	1051.8	1118.5	498.94	µg/L	498.94	ppb	07:19:29
1	Ti 334.940†	244205.1	258296.5	496.16	µg/L	496.16	ppb	07:19:09
1	Tl 190.801†	358.3	399.2	453.69	µg/L	453.69	ppb	07:19:29
1	U 367.007†	5523.2	5584.2	472.04	µg/L	472.04	ppb	07:19:09
1	V 292.402†	63072.4	66809.1	501.85	µg/L	501.85	ppb	07:19:09
1	Zn 213.857†	38273.4	40174.4	460.05	µg/L	460.05	ppb	07:19:09
2	Sc RADIAL	22261.1	22261.1	93.8	%			07:18:47
2	Al 396.153Radial†	226131.4	241290.4	506550	µg/L	506550	ppb	07:18:45
2	Ca 317.933Radial†	729296.7	777755.4	490150	µg/L	490150	ppb	07:18:45
2	Fe 238.204 Radial†	57881.5	61701.0	191280	µg/L	191280	ppb	07:18:47
2	K 766.490 Radial†	4318.9	3887.0	5407.9	µg/L	5407.9	ppb	07:18:47
2	Mg 279.077 IEC†	71782.5	76557.2	493320	µg/L	493320	ppb	07:18:47
2	Na 589.592 Radial†	3426.0	3702.7	5146.9	µg/L	5146.9	ppb	07:18:47
2	Sr 421.552†	40820.9	43511.0	498.60	µg/L	498.60	ppb	07:18:47
2	Sc 361.383	1240986.8	1240986.8	95.925	%			07:19:31
2	Y 371.029	714103.5	714103.5	93.499	%			07:19:31
2	Ag 328.068†	40413.0	41454.5	263.02	µg/L	263.02	ppb	07:19:31
2	As 188.979†	232.8	246.3	487.76	µg/L	487.76	ppb	07:19:51
2	B 249.677†	98523.5	102431.6	487.43	µg/L	487.43	ppb	07:19:31
2	Ba 233.527†	33450.8	34959.5	481.27	µg/L	481.27	ppb	07:19:31
2	Be 313.107†	539783.9	570642.3	241.09	µg/L	241.09	ppb	07:19:31
2	Cd 226.502†	30112.8	31496.8	445.38	µg/L	445.38	ppb	07:19:51
2	Co 228.616†	14610.9	15333.0	436.03	µg/L	436.03	ppb	07:19:51
2	Cr 267.716†	24763.9	25702.5	463.63	µg/L	463.63	ppb	07:19:51
2	Cu 324.752†	77404.0	76514.9	546.85	µg/L	546.85	ppb	07:19:31
2	Mn 257.610†	157402.3	163896.7	460.55	µg/L	460.55	ppb	07:19:31
2	Mo 202.031†	3965.0	4145.1	488.52	µg/L	488.52	ppb	07:19:51
2	Ni 231.604†	14338.0	15006.0	429.50	µg/L	429.50	ppb	07:19:51
2	P 214.914†	2341.2	2505.4	2401.0	µg/L	2401.0	ppb	07:19:51
2	Pb 220.353†	2245.8	2227.0	476.44	µg/L	476.44	ppb	07:19:51

2	S 181.975 Axial†	834.0	841.4	2482.5 µg/L	2482.5 ppb		07:19:51
2	Sb 206.836†	759.2	786.9	487.38 µg/L	487.38 ppb		07:19:51
2	Se 196.026†	1632.8	1690.3	2290 µg/L	2290 ppb		07:19:51
2	SiO2†	57862.4	58382.9	10559 µg/L	10559 ppb		07:19:31
2	Si 251.611†	165693.8	172339.6	4979.2 µg/L	4979.2 ppb		07:19:31
2	Sn 189.927†	1030.2	1073.3	481.78 µg/L	481.78 ppb		07:19:51
2	Ti 334.940†	249823.8	258887.6	497.61 µg/L	497.61 ppb		07:19:31
2	Tl 190.801†	361.4	394.7	448.02 µg/L	448.02 ppb		07:19:51
2	U 367.007†	5801.6	5755.3	508.80 µg/L	508.80 ppb		07:19:31
2	V 292.402†	64568.7	67008.8	503.37 µg/L	503.37 ppb		07:19:31
2	Zn 213.857†	39243.2	40360.0	462.11 µg/L	462.11 ppb		07:19:31
3	Sc RADIAL	22371.8	22371.8	94.2 %			07:18:51
3	Al 396.153Radial†	225322.8	239238.7	502240 µg/L	502240 ppb		07:18:49
3	Ca 317.933Radial†	727224.7	771707.1	486340 µg/L	486340 ppb		07:18:49
3	Fe 238.204 Radial†	58046.4	61570.5	190880 µg/L	190880 ppb		07:18:51
3	K 766.490 Radial†	4171.8	3708.1	5163.0 µg/L	5163.0 ppb		07:18:51
3	Mg 279.077 IEC†	72035.2	76446.5	492610 µg/L	492610 ppb		07:18:51
3	Na 589.592 Radial†	3381.7	3637.5	5056.3 µg/L	5056.3 ppb		07:18:51
3	Sr 421.552†	41045.0	43533.5	498.89 µg/L	498.89 ppb		07:18:51
3	Sc 361.383	1239745.2	1239745.2	95.829 %			07:19:54
3	Y 371.029	711962.1	711962.1	93.219 %			07:19:54
3	Ag 328.068†	40439.4	41524.3	263.60 µg/L	263.60 ppb		07:19:54
3	As 188.979†	232.0	245.7	486.62 µg/L	486.62 ppb		07:20:14
3	B 249.677†	98538.6	102550.2	490.47 µg/L	490.47 ppb		07:19:54
3	Ba 233.527†	33562.9	35111.4	483.36 µg/L	483.36 ppb		07:19:54
3	Be 313.107†	539720.6	571139.8	241.30 µg/L	241.30 ppb		07:19:54
3	Cd 226.502†	30218.5	31638.5	447.55 µg/L	447.55 ppb		07:20:14
3	Co 228.616†	14695.8	15436.9	439.00 µg/L	439.00 ppb		07:20:14
3	Cr 267.716†	24824.4	25791.5	465.23 µg/L	465.23 ppb		07:20:14
3	Cu 324.752†	77212.3	76395.7	545.98 µg/L	545.98 ppb		07:19:54
3	Mn 257.610†	157386.1	164044.1	460.99 µg/L	460.99 ppb		07:19:54
3	Mo 202.031†	3955.4	4139.3	487.83 µg/L	487.83 ppb		07:20:14
3	Ni 231.604†	14413.1	15099.4	432.18 µg/L	432.18 ppb		07:20:14
3	P 214.914†	2349.6	2516.6	2412.1 µg/L	2412.1 ppb		07:20:14
3	Pb 220.353†	2242.3	2225.7	476.04 µg/L	476.04 ppb		07:20:14
3	S 181.975 Axial†	835.9	844.2	2492.3 µg/L	2492.3 ppb		07:20:14
3	Sb 206.836†	762.7	791.3	490.09 µg/L	490.09 ppb		07:20:14
3	Se 196.026†	1631.4	1690.6	2290 µg/L	2290 ppb		07:20:14
3	SiO2†	58063.0	58652.6	10608 µg/L	10608 ppb		07:19:54
3	Si 251.611†	165917.3	172745.8	4990.8 µg/L	4990.8 ppb		07:19:54
3	Sn 189.927†	1031.5	1075.7	482.34 µg/L	482.34 ppb		07:20:14
3	Ti 334.940†	249854.2	259180.2	497.97 µg/L	497.97 ppb		07:19:54
3	Tl 190.801†	369.3	403.3	458.56 µg/L	458.56 ppb		07:20:14
3	U 367.007†	5752.0	5709.6	498.77 µg/L	498.77 ppb		07:19:54
3	V 292.402†	64432.3	66933.9	502.78 µg/L	502.78 ppb		07:19:54
3	Zn 213.857†	39160.8	40315.0	461.60 µg/L	461.60 ppb		07:19:54

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1232189.3	95.245	%	1.0958				1.15%
Sc RADIAL	22352.1	94.1	%	0.35				0.37%
Y 371.029	708808.2	92.806	%	0.9683				1.04%
Ag 328.068†	41526.6	263.63	µg/L	0.628	263.63	ppb	0.628	0.24%
QC value within limits for Ag 328.068 Recovery = 105.45%								
Al 396.153Radial†	239324.6	502420	µg/L	4040.0	502420	ppb	4040.0	0.80%
QC value within limits for Al 396.153Radial Recovery = 100.48%								
As 188.979†	245.1	485.50	µg/L	2.981	485.50	ppb	2.981	0.61%
QC value within limits for As 188.979 Recovery = 97.10%								
B 249.677†	102261.8	488.40	µg/L	1.797	488.40	ppb	1.797	0.37%
QC value within limits for B 249.677 Recovery = 97.68%								
Ba 233.527†	35012.3	482.00	µg/L	1.181	482.00	ppb	1.181	0.25%
QC value within limits for Ba 233.527 Recovery = 96.40%								
Be 313.107†	570545.5	241.05	µg/L	0.274	241.05	ppb	0.274	0.11%
QC value within limits for Be 313.107 Recovery = 96.42%								
Ca 317.933Radial†	771430.2	486160	µg/L	4076.8	486160	ppb	4076.8	0.84%
QC value within limits for Ca 317.933Radial Recovery = 97.23%								
Cd 226.502†	31845.2	450.69	µg/L	7.386	450.69	ppb	7.386	1.64%
QC value within limits for Cd 226.502 Recovery = 90.14%								
Co 228.616†	15517.0	441.30	µg/L	6.719	441.30	ppb	6.719	1.52%

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   QC value within limits for Co 228.616  Recovery = 88.26%
Cr 267.716†            25963.2      468.32 µg/L         6.794      468.32 ppb          6.794   1.45%
   QC value within limits for Cr 267.716  Recovery = 93.66%
Cu 324.752†            76311.0      545.35 µg/L         1.895      545.35 ppb          1.895   0.35%
   QC value within limits for Cu 324.752  Recovery = 109.07%
Fe 238.204 Radial†     61453.9      190510 µg/L         997.5      190510 ppb          997.5   0.52%
   QC value within limits for Fe 238.204 Radial  Recovery = 95.26%
K 766.490 Radial†       3781.5      5263.2 µg/L        128.37      5263.2 ppb         128.37   2.44%
   QC value within limits for K 766.490 Radial  Recovery = 105.26%
Mg 279.077 IEC†        76313.8      491760 µg/L        2128.4      491760 ppb         2128.4   0.43%
   QC value within limits for Mg 279.077 IEC  Recovery = 98.35%
Mn 257.610†           163831.3      460.40 µg/L         0.687      460.40 ppb          0.687   0.15%
   QC value within limits for Mn 257.610  Recovery = 92.08%
Mo 202.031†             4181.8      492.53 µg/L         7.552      492.53 ppb          7.552   1.53%
   QC value within limits for Mo 202.031  Recovery = 98.51%
Na 589.592 Radial†      3645.3      5067.2 µg/L         74.91      5067.2 ppb          74.91   1.48%
   QC value within limits for Na 589.592 Radial  Recovery = 101.34%
Ni 231.604†            15180.1      434.50 µg/L         6.474      434.50 ppb          6.474   1.49%
   QC value within limits for Ni 231.604  Recovery = 86.90%
P 214.914†              2539.1      2435.5 µg/L         50.53      2435.5 ppb          50.53   2.07%
   QC value within limits for P 214.914  Recovery = 97.42%
Pb 220.353†             2245.0      480.10 µg/L         6.682      480.10 ppb          6.682   1.39%
   QC value within limits for Pb 220.353  Recovery = 96.02%
S 181.975 Axial†         847.6      2503.1 µg/L         27.68      2503.1 ppb          27.68   1.11%
   QC value within limits for S 181.975 Axial  Recovery = 100.13%
Sb 206.836†              792.9      491.09 µg/L         4.299      491.09 ppb          4.299   0.88%
   QC value within limits for Sb 206.836  Recovery = 98.22%
Se 196.026†             1701.4        2300 µg/L          24.3        2300 ppb           24.3   1.06%
   QC value within limits for Se 196.026  Recovery = 91.99%
SiO2†                  58514.5       10583 µg/L          24.4       10583 ppb           24.4   0.23%
   QC value within limits for SiO2  Recovery = 98.95%
Si 251.611†           172427.5      4981.6 µg/L          8.34      4981.6 ppb          8.34   0.17%
   QC value within limits for Si 251.611  Recovery = 99.63%
Sn 189.927†             1089.1      487.69 µg/L         9.754      487.69 ppb          9.754   2.00%
   QC value within limits for Sn 189.927  Recovery = 97.54%
Sr 421.552†            43415.9      497.53 µg/L         2.104      497.53 ppb          2.104   0.42%
   QC value within limits for Sr 421.552  Recovery = 99.51%
Ti 334.940†           258788.1      497.25 µg/L         0.958      497.25 ppb          0.958   0.19%
   QC value within limits for Ti 334.940  Recovery = 99.45%
Tl 190.801†              399.1      453.42 µg/L         5.276      453.42 ppb          5.276   1.16%
   QC value within limits for Tl 190.801  Recovery = 90.68%
U 367.007†              5683.0      493.20 µg/L        19.002      493.20 ppb         19.002   3.85%
   QC value within limits for U 367.007  Recovery = 98.64%
V 292.402†             66917.3      502.67 µg/L         0.765      502.67 ppb          0.765   0.15%
   QC value within limits for V 292.402  Recovery = 100.53%
Zn 213.857†            40283.2      461.25 µg/L         1.069      461.25 ppb          1.069   0.23%
   QC value within limits for Zn 213.857  Recovery = 92.25%
All analyte(s) passed QC.
```

Sequence No.: 11 **Autosampler Location: 105**
Sample ID: LR1 **Date Collected: 11/6/2013 07:20:22**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22008.6	22008.6	92.7	%			07:20:54
1	Al 396.153Radial†	218517.8	235844.1	495140	µg/L	495140	ppb	07:20:52
1	Ca 317.933Radial†	708963.1	764744.0	481950	µg/L	481950	ppb	07:20:52
1	Fe 238.204 Radial†	142062.5	153223.4	475040	µg/L	475040	ppb	07:20:54
1	K 766.490 Radial†	572.5	-101.7	-151.62	µg/L	-151.62	ppb	07:20:54
1	Mg 279.077 IEC†	71349.6	76968.6	496020	µg/L	496020	ppb	07:20:54
1	Na 589.592 Radial†	315292.5	340184.9	473010	µg/L	473010	ppb	07:20:52
1	Sr 421.552†	558.3	575.4	2.8889	µg/L	2.8889	ppb	07:20:54
1	Sc 361.383	1207257.2	1207257.2	93.318	%			07:21:20
1	Y 371.029	687744.9	687744.9	90.048	%			07:21:20
1	Ag 328.068†	5517.4	5237.2	2.8130	µg/L	2.8130	ppb	07:21:20
1	As 188.979†	-33.7	-32.5	-14.687	µg/L	-14.687	ppb	07:21:41
1	B 249.677†	144366.0	154426.3	31.507	µg/L	31.507	ppb	07:21:20
1	Ba 233.527†	450.6	570.6	2.1126	µg/L	2.1126	ppb	07:21:41
1	Be 313.107†	-16771.1	-10044.1	-4.2435	µg/L	-4.2435	ppb	07:21:20
1	Cd 226.502†	3844.2	4224.3	0.9123	µg/L	0.9123	ppb	07:21:41
1	Co 228.616†	104.6	213.5	1.9900	µg/L	1.9900	ppb	07:21:41
1	Cr 267.716†	526.4	450.7	9.3540	µg/L	9.3540	ppb	07:21:41
1	Cu 324.752†	-7653.2	-12378.4	-6.4066	µg/L	-6.4066	ppb	07:21:20
1	Mn 257.610†	1766.2	1700.6	3.0294	µg/L	3.0294	ppb	07:21:20
1	Mo 202.031†	-274.4	-282.4	3.0208	µg/L	3.0208	ppb	07:21:41
1	Ni 231.604†	131.2	199.6	3.2244	µg/L	3.2244	ppb	07:21:41
1	P 214.914†	408.5	502.4	-13.062	µg/L	-13.062	ppb	07:21:41
1	Pb 220.353†	155.1	52.0	-0.8510	µg/L	-0.8510	ppb	07:21:41
1	S 181.975 Axial†	15105.2	16158.7	50665	µg/L	50665	ppb	07:21:41
1	Sb 206.836†	20.4	17.3	3.5384	µg/L	3.5384	ppb	07:21:41
1	Se 196.026†	-121.4	-141.9	19.2	µg/L	19.2	ppb	07:21:41
1	SiO2†	1754.2	-57.8	-10.277	µg/L	-10.277	ppb	07:21:41
1	Si 251.611†	-337.5	-754.6	33.287	µg/L	33.287	ppb	07:21:41
1	Sn 189.927†	-116.0	-125.0	10.155	µg/L	10.155	ppb	07:21:41
1	Ti 334.940†	-4931.8	-6833.8	-1.2362	µg/L	-1.2362	ppb	07:21:20
1	Tl 190.801†	-27.2	-11.2	-35.687	µg/L	-35.687	ppb	07:21:41
1	U 367.007†	57467.5	61289.8	14763	µg/L	14763	ppb	07:21:20
1	V 292.402†	-10261.5	-11299.0	1.7112	µg/L	1.7112	ppb	07:21:20
1	Zn 213.857†	5358.1	5191.5	-2.8439	µg/L	-2.8439	ppb	07:21:41
2	Sc RADIAL	22262.0	22262.0	93.8	%			07:20:59
2	Al 396.153Radial†	221196.9	236018.4	495510	µg/L	495510	ppb	07:20:57
2	Ca 317.933Radial†	714802.7	762267.3	480380	µg/L	480380	ppb	07:20:57
2	Fe 238.204 Radial†	143653.2	153175.6	474900	µg/L	474900	ppb	07:20:59
2	K 766.490 Radial†	599.6	-79.9	-121.10	µg/L	-121.10	ppb	07:20:59
2	Mg 279.077 IEC†	72235.7	77037.6	496460	µg/L	496460	ppb	07:20:59
2	Na 589.592 Radial†	317792.0	338979.5	471330	µg/L	471330	ppb	07:20:57
2	Sr 421.552†	540.8	549.9	2.6060	µg/L	2.6060	ppb	07:20:59
2	Sc 361.383	1204724.9	1204724.9	93.122	%			07:21:43
2	Y 371.029	686318.0	686318.0	89.861	%			07:21:43
2	Ag 328.068†	5511.7	5243.6	2.9893	µg/L	2.9893	ppb	07:21:43
2	As 188.979†	-45.7	-45.4	-38.906	µg/L	-38.906	ppb	07:22:03
2	B 249.677†	143983.9	154341.2	31.051	µg/L	31.051	ppb	07:21:43
2	Ba 233.527†	454.0	575.2	2.1718	µg/L	2.1718	ppb	07:22:03
2	Be 313.107†	-16609.9	-9908.7	-4.1863	µg/L	-4.1863	ppb	07:21:43
2	Cd 226.502†	3841.0	4229.5	1.0097	µg/L	1.0097	ppb	07:22:03
2	Co 228.616†	126.0	236.7	2.6567	µg/L	2.6567	ppb	07:22:03
2	Cr 267.716†	504.1	427.9	9.0041	µg/L	9.0041	ppb	07:22:03
2	Cu 324.752†	-7891.7	-12651.8	-8.3231	µg/L	-8.3231	ppb	07:21:43
2	Mn 257.610†	1670.0	1601.2	2.7239	µg/L	2.7239	ppb	07:21:43
2	Mo 202.031†	-251.0	-257.8	5.7750	µg/L	5.7750	ppb	07:22:03
2	Ni 231.604†	157.2	227.9	4.0346	µg/L	4.0346	ppb	07:22:03
2	P 214.914†	418.6	514.2	-0.7996	µg/L	-0.7996	ppb	07:22:03
2	Pb 220.353†	204.3	105.2	10.355	µg/L	10.355	ppb	07:22:03

2	S 181.975 Axial†	15114.4	16202.7	50804	µg/L	50804	ppb	07:22:03
2	Sb 206.836†	6.2	2.1	-5.8915	µg/L	-5.8915	ppb	07:22:03
2	Se 196.026†	-117.6	-138.1	24.2	µg/L	24.2	ppb	07:22:03
2	SiO2†	1789.8	-15.6	-2.6594	µg/L	-2.6594	ppb	07:22:03
2	Si 251.611†	-303.3	-718.6	34.269	µg/L	34.269	ppb	07:22:03
2	Sn 189.927†	-104.2	-112.7	14.929	µg/L	14.929	ppb	07:22:03
2	Ti 334.940†	-4658.1	-6551.1	-0.7407	µg/L	-0.7407	ppb	07:21:43
2	Tl 190.801†	-22.4	-6.1	-29.505	µg/L	-29.505	ppb	07:22:03
2	U 367.007†	56990.3	60906.8	14656	µg/L	14656	ppb	07:21:43
2	V 292.402†	-10539.8	-11621.0	-0.5886	µg/L	-0.5886	ppb	07:21:43
2	Zn 213.857†	5349.1	5194.0	-2.8095	µg/L	-2.8095	ppb	07:22:03
3	Sc RADIAL	22049.9	22049.9	92.9	%			07:21:03
3	Al 396.153Radial†	221060.1	238139.8	499960	µg/L	499960	ppb	07:21:01
3	Ca 317.933Radial†	713031.4	767691.3	483800	µg/L	483800	ppb	07:21:01
3	Fe 238.204 Radial†	142794.8	153724.8	476600	µg/L	476600	ppb	07:21:03
3	K 766.490 Radial†	622.5	-49.1	-81.342	µg/L	-81.342	ppb	07:21:03
3	Mg 279.077 IEC†	71795.1	77304.0	498180	µg/L	498180	ppb	07:21:03
3	Na 589.592 Radial†	319464.5	344039.7	478370	µg/L	478370	ppb	07:21:01
3	Sr 421.552†	509.2	521.4	2.2509	µg/L	2.2509	ppb	07:21:03
3	Sc 361.383	1201200.8	1201200.8	92.850	%			07:22:05
3	Y 371.029	685003.2	685003.2	89.689	%			07:22:05
3	Ag 328.068†	5414.0	5155.7	2.1958	µg/L	2.1958	ppb	07:22:05
3	As 188.979†	-42.1	-41.6	-31.739	µg/L	-31.739	ppb	07:22:25
3	B 249.677†	143917.8	154723.6	29.127	µg/L	29.127	ppb	07:22:05
3	Ba 233.527†	452.4	575.0	2.1486	µg/L	2.1486	ppb	07:22:25
3	Be 313.107†	-16888.6	-10261.1	-4.3352	µg/L	-4.3352	ppb	07:22:05
3	Cd 226.502†	3876.3	4279.6	1.5352	µg/L	1.5352	ppb	07:22:25
3	Co 228.616†	122.7	233.6	2.5500	µg/L	2.5500	ppb	07:22:25
3	Cr 267.716†	534.2	461.9	9.5881	µg/L	9.5881	ppb	07:22:25
3	Cu 324.752†	-7710.8	-12481.9	-6.8738	µg/L	-6.8738	ppb	07:22:05
3	Mn 257.610†	1479.8	1401.6	2.1454	µg/L	2.1454	ppb	07:22:05
3	Mo 202.031†	-260.6	-269.0	4.6455	µg/L	4.6455	ppb	07:22:25
3	Ni 231.604†	123.1	191.6	2.9853	µg/L	2.9853	ppb	07:22:25
3	P 214.914†	399.3	494.7	-21.990	µg/L	-21.990	ppb	07:22:25
3	Pb 220.353†	187.3	87.5	6.6671	µg/L	6.6671	ppb	07:22:25
3	S 181.975 Axial†	15033.0	16162.6	50676	µg/L	50676	ppb	07:22:25
3	Sb 206.836†	11.1	7.4	-2.6094	µg/L	-2.6094	ppb	07:22:25
3	Se 196.026†	-128.9	-150.7	8.54	µg/L	8.54	ppb	07:22:25
3	SiO2†	1767.0	-34.4	-6.0607	µg/L	-6.0607	ppb	07:22:25
3	Si 251.611†	-305.5	-721.9	34.386	µg/L	34.386	ppb	07:22:25
3	Sn 189.927†	-103.9	-112.7	15.302	µg/L	15.302	ppb	07:22:25
3	Ti 334.940†	-4793.4	-6711.4	-0.9376	µg/L	-0.9376	ppb	07:22:05
3	Tl 190.801†	-34.7	-19.4	-45.703	µg/L	-45.703	ppb	07:22:25
3	U 367.007†	57200.5	61312.8	14761	µg/L	14761	ppb	07:22:05
3	V 292.402†	-10513.5	-11625.9	-0.3160	µg/L	-0.3160	ppb	07:22:05
3	Zn 213.857†	5329.4	5189.6	-3.0973	µg/L	-3.0973	ppb	07:22:25

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1204394.3	93.097	%	0.2351				0.25%
Sc RADIAL	22106.9	93.1	%	0.57				0.61%
Y 371.029	686355.4	89.866	%	0.1795				0.20%
Ag 328.068†	5212.2	2.6660	µg/L	0.41667	2.6660	ppb	0.41667	15.63%
Al 396.153Radial†	236667.4	496870	µg/L	2682.5	496870	ppb	2682.5	0.54%
QC value within limits for Al 396.153Radial Recovery = 99.37%								
As 188.979†	-39.8	-28.444	µg/L	12.4414	-28.444	ppb	12.4414	43.74%
B 249.677†	154497.0	30.562	µg/L	1.2634	30.562	ppb	1.2634	4.13%
Ba 233.527†	573.6	2.1443	µg/L	0.02982	2.1443	ppb	0.02982	1.39%
Be 313.107†	-10071.3	-4.2550	µg/L	0.07511	-4.2550	ppb	0.07511	1.77%
Ca 317.933Radial†	764900.9	482040	µg/L	1711.5	482040	ppb	1711.5	0.36%
QC value within limits for Ca 317.933Radial Recovery = 96.41%								
Cd 226.502†	4244.5	1.1524	µg/L	0.33508	1.1524	ppb	0.33508	29.08%
Co 228.616†	227.9	2.3989	µg/L	0.35811	2.3989	ppb	0.35811	14.93%
Cr 267.716†	446.8	9.3154	µg/L	0.29392	9.3154	ppb	0.29392	3.16%
Cu 324.752†	-12504.0	-7.2012	µg/L	0.99933	-7.2012	ppb	0.99933	13.88%
Fe 238.204 Radial†	153374.6	475510	µg/L	943.1	475510	ppb	943.1	0.20%
QC value within limits for Fe 238.204 Radial Recovery = 95.10%								
K 766.490 Radial†	-76.9	-118.02	µg/L	35.240	-118.02	ppb	35.240	29.86%
Mg 279.077 IEC†	77103.4	496890	µg/L	1141.6	496890	ppb	1141.6	0.23%

QC value within limits for Mg 279.077 IEC Recovery = 99.38%

Mn 257.610†	1567.8	2.6329	µg/L	0.44894	2.6329	ppb	0.44894	17.05%
Mo 202.031†	-269.7	4.4804	µg/L	1.38453	4.4804	ppb	1.38453	30.90%
Na 589.592 Radial†	341068.0	474230	µg/L	3675.2	474230	ppb	3675.2	0.77%

QC value within limits for Na 589.592 Radial Recovery = 94.85%

Ni 231.604†	206.4	3.4148	µg/L	0.54997	3.4148	ppb	0.54997	16.11%
P 214.914†	503.8	-11.951	µg/L	10.6390	-11.951	ppb	10.6390	89.02%
Pb 220.353†	81.5	5.3902	µg/L	5.71087	5.3902	ppb	5.71087	105.95%
S 181.975 Axial†	16174.7	50715	µg/L	77.1	50715	ppb	77.1	0.15%

QC value within limits for S 181.975 Axial Recovery = 101.43%

Sb 206.836†	8.9	-1.6542	µg/L	4.78698	-1.6542	ppb	4.78698	289.39%
Se 196.026†	-143.6	17.3	µg/L	8.00	17.3	ppb	8.00	46.20%
SiO2†	-35.9	-6.3323	µg/L	3.81601	-6.3323	ppb	3.81601	60.26%
Si 251.611†	-731.7	33.981	µg/L	0.6035	33.981	ppb	0.6035	1.78%
Sn 189.927†	-116.8	13.462	µg/L	2.8699	13.462	ppb	2.8699	21.32%
Sr 421.552†	548.9	2.5820	µg/L	0.31970	2.5820	ppb	0.31970	12.38%
Ti 334.940†	-6698.8	-0.9715	µg/L	0.24951	-0.9715	ppb	0.24951	25.68%
Tl 190.801†	-12.2	-36.965	µg/L	8.1744	-36.965	ppb	8.1744	22.11%
U 367.007†	61169.8	14727	µg/L	61.4	14727	ppb	61.4	0.42%

QC value within limits for U 367.007 Recovery = 98.18%

V 292.402†	-11515.3	0.2689	µg/L	1.25649	0.2689	ppb	1.25649	467.30%
Zn 213.857†	5191.7	-2.9169	µg/L	0.15720	-2.9169	ppb	0.15720	5.39%

All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 108**
Sample ID: LR2 **Date Collected: 11/6/2013 07:22:34**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22352.8	22352.8	94.1	%			07:23:07
1	Al 396.153Radial†	-26.1	80.2	65.086	µg/L	65.086	ppb	07:23:07
1	Ca 317.933Radial†	148.6	75.4	47.552	µg/L	47.552	ppb	07:23:27
1	Fe 238.204 Radial†	-57.5	-94.1	-590.42	µg/L	-590.42	ppb	07:23:27
1	K 766.490 Radial†	197414.8	208971.4	286200	µg/L	286200	ppb	07:23:05
1	Mg 279.077 IEC†	-23.7	-28.2	-182.06	µg/L	-182.06	ppb	07:23:27
1	Na 589.592 Radial†	-16.4	31.3	43.494	µg/L	43.494	ppb	07:23:07
1	Sr 421.552†	802829.2	852725.0	9846.3	µg/L	9846.3	ppb	07:23:05
1	Sc 361.383	1259899.9	1259899.9	97.387	%			07:24:37
1	Y 371.029	721086.0	721086.0	94.413	%			07:24:37
1	Ag 328.068†	-2707.7	-3455.6	14.054	µg/L	14.054	ppb	07:24:39
1	As 188.979†	5531.8	5683.8	10930	µg/L	10930	ppb	07:24:59
1	B 249.677†	395835.4	406178.9	4717.7	µg/L	4717.7	ppb	07:24:37
1	Ba 233.527†	1033917.6	1061746.7	14673	µg/L	14673	ppb	07:24:37
1	Be 313.107†	6991727.7	7187253.3	3036.5	µg/L	3036.5	ppb	07:24:34
1	Cd 226.502†	639283.7	656541.3	9806.1	µg/L	9806.1	ppb	07:24:37
1	Co 228.616†	328500.1	337415.6	9634.0	µg/L	9634.0	ppb	07:24:39
1	Cr 267.716†	1328086.3	1363607.3	24550	µg/L	24550	ppb	07:24:37
1	Cu 324.752†	3133292.6	3213185.8	21704	µg/L	21704	ppb	07:24:37
1	Mn 257.610†	3227664.7	3314075.2	9529.3	µg/L	9529.3	ppb	07:24:37
1	Mo 202.031†	85303.5	87604.0	9780.1	µg/L	9780.1	ppb	07:24:39
1	Ni 231.604†	333552.7	342561.4	9827.8	µg/L	9827.8	ppb	07:24:39
1	P 214.914†	13866.4	14303.2	14302	µg/L	14302	ppb	07:24:39
1	Pb 220.353†	117490.9	120529.1	25134	µg/L	25134	ppb	07:24:39
1	S 181.975 Axial†	64.9	38.5	88.092	µg/L	88.092	ppb	07:24:59
1	Sb 206.836†	15849.5	16270.2	9961.2	µg/L	9961.2	ppb	07:24:39
1	Se 196.026†	7858.4	8057.4	10500	µg/L	10500	ppb	07:24:59
1	SiO2†	526360.6	538546.0	97802	µg/L	97802	ppb	07:24:37
1	Si 251.611†	1538174.0	1579052.3	45345	µg/L	45345	ppb	07:24:37
1	Sn 189.927†	24689.8	25351.5	10114	µg/L	10114	ppb	07:24:39
1	Ti 334.940†	5397651.7	5540929.2	10219	µg/L	10219	ppb	07:24:34
1	Tl 190.801†	8652.7	8902.8	10615	µg/L	10615	ppb	07:24:59
1	U 367.007†	247.0	-39.1	-57.847	µg/L	-57.847	ppb	07:24:39
1	V 292.402†	1408695.1	1446189.5	10257	µg/L	10257	ppb	07:24:37
1	Zn 213.857†	1161194.8	1191801.0	14653	µg/L	14653	ppb	07:24:37
2	Sc RADIAL	23554.9	23554.9	99.2	%			07:23:32
2	Al 396.153Radial†	-23.5	84.3	71.483	µg/L	71.483	ppb	07:23:32
2	Ca 317.933Radial†	143.0	61.7	38.927	µg/L	38.927	ppb	07:23:52
2	Fe 238.204 Radial†	-56.6	-90.1	-584.62	µg/L	-584.62	ppb	07:23:52
2	K 766.490 Radial†	207581.4	208517.8	285580	µg/L	285580	ppb	07:23:30
2	Mg 279.077 IEC†	-13.9	-17.2	-110.63	µg/L	-110.63	ppb	07:23:52
2	Na 589.592 Radial†	16.2	65.0	90.401	µg/L	90.401	ppb	07:23:32
2	Sr 421.552†	846394.5	853118.6	9850.9	µg/L	9850.9	ppb	07:23:30
2	Sc 361.383	1349877.1	1349877.1	104.34	%			07:25:05
2	Y 371.029	771116.1	771116.1	100.96	%			07:25:05
2	Ag 328.068†	-3208.1	-3749.8	12.196	µg/L	12.196	ppb	07:25:07
2	As 188.979†	5591.5	5362.5	10328	µg/L	10328	ppb	07:25:27
2	B 249.677†	425126.7	407158.7	4730.3	µg/L	4730.3	ppb	07:25:05
2	Ba 233.527†	1111600.1	1065430.8	14724	µg/L	14724	ppb	07:25:05
2	Be 313.107†	7358001.5	7059741.5	2982.6	µg/L	2982.6	ppb	07:25:02
2	Cd 226.502†	692911.9	664182.6	9920.3	µg/L	9920.3	ppb	07:25:05
2	Co 228.616†	359697.6	344831.0	9846.5	µg/L	9846.5	ppb	07:25:07
2	Cr 267.716†	1427019.4	1367523.5	24620	µg/L	24620	ppb	07:25:05
2	Cu 324.752†	3334362.6	3191432.7	21557	µg/L	21557	ppb	07:25:05
2	Mn 257.610†	3461774.1	3317527.4	9539.2	µg/L	9539.2	ppb	07:25:05
2	Mo 202.031†	93239.2	89370.9	9977.4	µg/L	9977.4	ppb	07:25:07
2	Ni 231.604†	366063.4	350889.4	10067	µg/L	10067	ppb	07:25:07
2	P 214.914†	15085.3	14522.2	14525	µg/L	14525	ppb	07:25:07
2	Pb 220.353†	129533.7	124029.2	25863	µg/L	25863	ppb	07:25:07

2	S 181.975 Axial†	73.1	41.9	97.863	µg/L	97.863	ppb	07:25:27
2	Sb 206.836†	17234.4	16512.6	10113	µg/L	10113	ppb	07:25:07
2	Se 196.026†	7940.4	7598.1	9870	µg/L	9870	ppb	07:25:27
2	SiO2†	563966.3	538560.4	97806	µg/L	97806	ppb	07:25:05
2	Si 251.611†	1649285.2	1580260.7	45378	µg/L	45378	ppb	07:25:05
2	Sn 189.927†	27148.6	26018.1	10380	µg/L	10380	ppb	07:25:07
2	Ti 334.940†	5664676.1	5427403.5	10010	µg/L	10010	ppb	07:25:02
2	Tl 190.801†	8740.7	8395.0	9999.6	µg/L	9999.6	ppb	07:25:27
2	U 367.007†	323.9	17.7	-42.549	µg/L	-42.549	ppb	07:25:07
2	V 292.402†	1508722.8	1445637.7	10256	µg/L	10256	ppb	07:25:05
2	Zn 213.857†	1245533.1	1193152.6	14668	µg/L	14668	ppb	07:25:05
3	Sc RADIAL	23535.7	23535.7	99.1	%			07:23:56
3	Al 396.153Radial†	-35.0	72.7	47.293	µg/L	47.293	ppb	07:23:56
3	Ca 317.933Radial†	141.6	60.4	38.080	µg/L	38.080	ppb	07:24:16
3	Fe 238.204 Radial†	-58.4	-92.0	-590.14	µg/L	-590.14	ppb	07:24:16
3	K 766.490 Radial†	207902.0	209012.3	286260	µg/L	286260	ppb	07:23:54
3	Mg 279.077 IEC†	-14.0	-17.3	-111.33	µg/L	-111.33	ppb	07:24:16
3	Na 589.592 Radial†	-10.5	38.1	52.975	µg/L	52.975	ppb	07:23:56
3	Sr 421.552†	848670.3	856112.3	9885.4	µg/L	9885.4	ppb	07:23:54
3	Sc 361.383	1343165.6	1343165.6	103.82	%			07:25:32
3	Y 371.029	767312.3	767312.3	100.47	%			07:25:32
3	Ag 328.068†	-3231.6	-3787.8	11.988	µg/L	11.988	ppb	07:25:34
3	As 188.979†	5481.7	5283.5	10180	µg/L	10180	ppb	07:25:55
3	B 249.677†	423914.4	408026.8	4740.2	µg/L	4740.2	ppb	07:25:32
3	Ba 233.527†	1107943.3	1067231.9	14748	µg/L	14748	ppb	07:25:32
3	Be 313.107†	7451843.8	7185364.3	3035.7	µg/L	3035.7	ppb	07:25:30
3	Cd 226.502†	690332.3	665016.2	9932.8	µg/L	9932.8	ppb	07:25:32
3	Co 228.616†	357476.6	344414.3	9834.2	µg/L	9834.2	ppb	07:25:34
3	Cr 267.716†	1421922.1	1369447.7	24655	µg/L	24655	ppb	07:25:32
3	Cu 324.752†	3322219.9	3195704.8	21586	µg/L	21586	ppb	07:25:32
3	Mn 257.610†	3451445.7	3324157.1	9558.3	µg/L	9558.3	ppb	07:25:32
3	Mo 202.031†	92685.5	89284.2	9967.7	µg/L	9967.7	ppb	07:25:34
3	Ni 231.604†	363744.0	350408.4	10053	µg/L	10053	ppb	07:25:34
3	P 214.914†	14968.3	14481.8	14484	µg/L	14484	ppb	07:25:34
3	Pb 220.353†	128492.2	123646.4	25784	µg/L	25784	ppb	07:25:34
3	S 181.975 Axial†	79.0	48.0	116.81	µg/L	116.81	ppb	07:25:55
3	Sb 206.836†	17125.4	16490.3	10098	µg/L	10098	ppb	07:25:34
3	Se 196.026†	7724.8	7428.5	9650	µg/L	9650	ppb	07:25:55
3	SiO2†	562017.6	539384.3	97956	µg/L	97956	ppb	07:25:32
3	Si 251.611†	1642881.8	1581991.2	45428	µg/L	45428	ppb	07:25:32
3	Sn 189.927†	27036.2	26039.8	10389	µg/L	10389	ppb	07:25:34
3	Ti 334.940†	5728831.5	5516323.5	10174	µg/L	10174	ppb	07:25:30
3	Tl 190.801†	8566.0	8268.5	9848.5	µg/L	9848.5	ppb	07:25:55
3	U 367.007†	346.3	40.8	-35.969	µg/L	-35.969	ppb	07:25:34
3	V 292.402†	1504087.8	1448398.3	10275	µg/L	10275	ppb	07:25:32
3	Zn 213.857†	1241903.4	1195621.1	14699	µg/L	14699	ppb	07:25:32

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1317647.5	101.85	%	3.874				3.80%
Sc RADIAL	23147.8	97.5	%	2.90				2.97%
Y 371.029	753171.5	98.614	%	3.6467				3.70%
Ag 328.068†	-3664.4	12.746	µg/L	1.1374	12.746	ppb	1.1374	8.92%
Al 396.153Radial†	79.1	61.287	µg/L	12.5346	61.287	ppb	12.5346	20.45%
As 188.979†	5443.3	10479	µg/L	397.5	10479	ppb	397.5	3.79%
QC value within limits for As 188.979 Recovery = 104.79%								
B 249.677†	407121.5	4729.4	µg/L	11.28	4729.4	ppb	11.28	0.24%
QC value within limits for B 249.677 Recovery = 94.59%								
Ba 233.527†	1064803.2	14715	µg/L	38.6	14715	ppb	38.6	0.26%
QC value within limits for Ba 233.527 Recovery = 98.10%								
Be 313.107†	7144119.7	3018.3	µg/L	30.88	3018.3	ppb	30.88	1.02%
QC value within limits for Be 313.107 Recovery = 100.61%								
Ca 317.933Radial†	65.8	41.520	µg/L	5.2416	41.520	ppb	5.2416	12.62%
Cd 226.502†	661913.3	9886.4	µg/L	69.80	9886.4	ppb	69.80	0.71%
QC value within limits for Cd 226.502 Recovery = 98.86%								
Co 228.616†	342220.3	9771.6	µg/L	119.31	9771.6	ppb	119.31	1.22%
QC value within limits for Co 228.616 Recovery = 97.72%								
Cr 267.716†	1366859.5	24608	µg/L	53.6	24608	ppb	53.6	0.22%
QC value within limits for Cr 267.716 Recovery = 98.43%								

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Cu 324.752†          3200107.8       21616 µg/L          77.8       21616 ppb           77.8   0.36%
   QC value within limits for Cu 324.752  Recovery = 108.08%
Fe 238.204 Radial†       -92.0     -588.39 µg/L         3.269     -588.39 ppb          3.269   0.56%
K 766.490 Radial†     208833.8      286010 µg/L         375.1      286010 ppb          375.1   0.13%
   QC value within limits for K 766.490 Radial  Recovery = 95.34%
Mg 279.077 IEC†          -20.9     -134.67 µg/L        41.040     -134.67 ppb         41.040  30.47%
Mn 257.610†          3318586.6      9542.3 µg/L         14.73      9542.3 ppb          14.73   0.15%
   QC value within limits for Mn 257.610  Recovery = 95.42%
Mo 202.031†            88753.0      9908.4 µg/L        111.20      9908.4 ppb         111.20   1.12%
   QC value within limits for Mo 202.031  Recovery = 99.08%
Na 589.592 Radial†        44.8      62.290 µg/L       24.8021      62.290 ppb        24.8021  39.82%
Ni 231.604†           347953.1      9982.4 µg/L        134.14      9982.4 ppb         134.14   1.34%
   QC value within limits for Ni 231.604  Recovery = 99.82%
P 214.914†             14435.7       14437 µg/L         118.7       14437 ppb          118.7   0.82%
   QC value within limits for P 214.914  Recovery = 96.25%
Pb 220.353†           122734.9       25594 µg/L         400.1       25594 ppb          400.1   1.56%
   QC value within limits for Pb 220.353  Recovery = 102.38%
S 181.975 Axial†          42.8      100.92 µg/L        14.602      100.92 ppb         14.602  14.47%
Sb 206.836†            16424.4       10057 µg/L          83.6       10057 ppb           83.6   0.83%
   QC value within limits for Sb 206.836  Recovery = 100.57%
Se 196.026†             7694.7        9990 µg/L         423.4        9990 ppb          423.4   4.24%
   QC value within limits for Se 196.026  Recovery = 99.91%
SiO2†                  538830.2       97855 µg/L          87.5       97855 ppb           87.5   0.09%
   QC value within limits for SiO2  Recovery = 91.45%
Si 251.611†          1580434.7       45384 µg/L          41.4       45384 ppb           41.4   0.09%
   QC value within limits for Si 251.611  Recovery = 90.77%
Sn 189.927†            25803.2       10294 µg/L         156.1       10294 ppb          156.1   1.52%
   QC value within limits for Sn 189.927  Recovery = 102.94%
Sr 421.552†           853985.3      9860.9 µg/L         21.39      9860.9 ppb          21.39   0.22%
   QC value within limits for Sr 421.552  Recovery = 98.61%
Ti 334.940†          5494885.4       10134 µg/L         110.3       10134 ppb          110.3   1.09%
   QC value within limits for Ti 334.940  Recovery = 101.34%
Tl 190.801†             8522.1       10154 µg/L         405.9       10154 ppb          405.9   4.00%
   QC value within limits for Tl 190.801  Recovery = 101.54%
U 367.007†                 6.5     -45.455 µg/L       11.2250     -45.455 ppb        11.2250  24.69%
V 292.402†           1446741.8       10262 µg/L          10.7       10262 ppb           10.7   0.10%
   QC value within limits for V 292.402  Recovery = 102.62%
Zn 213.857†          1193524.9       14673 µg/L          23.4       14673 ppb           23.4   0.16%
   QC value within limits for Zn 213.857  Recovery = 97.82%
All analyte(s) passed QC.
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Sequence No.: 13 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 07:26:03**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	25180.6	25180.6	106	%			07:26:35
1	Al 396.153Radial†	2334.8	2309.5	4843.5	µg/L	4843.5	ppb	07:26:55
1	Ca 317.933Radial†	8292.7	7736.7	4875.7	µg/L	4875.7	ppb	07:26:55
1	Fe 238.204 Radial†	1718.4	1587.3	4905.9	µg/L	4905.9	ppb	07:26:55
1	K 766.490 Radial†	4368.7	3399.9	4661.5	µg/L	4661.5	ppb	07:26:35
1	Mg 279.077 IEC†	831.2	780.6	5030.6	µg/L	5030.6	ppb	07:26:55
1	Na 589.592 Radial†	7053.4	6699.2	9314.9	µg/L	9314.9	ppb	07:26:35
1	Sr 421.552†	42544.2	40088.1	462.85	µg/L	462.85	ppb	07:26:35
1	Sc 361.383	1352252.8	1352252.8	104.53	%			07:27:58
1	Y 371.029	780126.8	780126.8	102.14	%			07:27:58
1	Ag 328.068†	78344.9	74277.6	497.63	µg/L	497.63	ppb	07:28:00
1	As 188.979†	278.6	270.2	514.83	µg/L	514.83	ppb	07:28:20
1	B 249.677†	44744.3	42529.8	483.66	µg/L	483.66	ppb	07:28:00
1	Ba 233.527†	36939.7	35428.0	489.96	µg/L	489.96	ppb	07:28:00
1	Be 313.107†	1209309.2	1164878.2	492.14	µg/L	492.14	ppb	07:27:58
1	Cd 226.502†	34623.7	33229.3	495.67	µg/L	495.67	ppb	07:28:00
1	Co 228.616†	18002.5	17324.5	494.54	µg/L	494.54	ppb	07:28:00
1	Cr 267.716†	28658.8	27304.5	491.28	µg/L	491.28	ppb	07:28:00
1	Cu 324.752†	80533.7	72869.6	493.20	µg/L	493.20	ppb	07:28:00
1	Mn 257.610†	180419.0	172415.3	495.75	µg/L	495.75	ppb	07:28:00
1	Mo 202.031†	4681.5	4490.5	501.68	µg/L	501.68	ppb	07:28:20
1	Ni 231.604†	18041.3	17319.2	496.85	µg/L	496.85	ppb	07:28:00
1	P 214.914†	2529.1	2484.3	2520.7	µg/L	2520.7	ppb	07:28:20
1	Pb 220.353†	2672.6	2442.7	510.05	µg/L	510.05	ppb	07:28:20
1	S 181.975 Axial†	369.9	325.8	1021.5	µg/L	1021.5	ppb	07:28:20
1	Sb 206.836†	834.2	793.6	494.20	µg/L	494.20	ppb	07:28:20
1	Se 196.026†	427.4	397.1	518	µg/L	518	ppb	07:28:20
1	SiO2†	32337.6	29000.0	5250.2	µg/L	5250.2	ppb	07:28:00
1	Si 251.611†	89471.9	85205.2	2447.7	µg/L	2447.7	ppb	07:28:00
1	Sn 189.927†	1306.8	1249.5	499.10	µg/L	499.10	ppb	07:28:20
1	Ti 334.940†	280802.0	267095.4	492.83	µg/L	492.83	ppb	07:28:00
1	Tl 190.801†	415.7	415.6	495.14	µg/L	495.14	ppb	07:28:20
1	U 367.007†	2131.4	1746.3	464.98	µg/L	464.98	ppb	07:28:00
1	V 292.402†	73758.5	70262.2	498.15	µg/L	498.15	ppb	07:28:00
1	Zn 213.857†	42914.3	40506.0	496.66	µg/L	496.66	ppb	07:28:00
2	Sc RADIAL	24084.5	24084.5	101	%			07:26:57
2	Al 396.153Radial†	2330.9	2405.9	5046.0	µg/L	5046.0	ppb	07:27:17
2	Ca 317.933Radial†	8311.3	8111.0	5111.6	µg/L	5111.6	ppb	07:27:17
2	Fe 238.204 Radial†	1717.0	1659.6	5131.0	µg/L	5131.0	ppb	07:27:17
2	K 766.490 Radial†	4518.1	3734.6	5118.7	µg/L	5118.7	ppb	07:26:57
2	Mg 279.077 IEC†	834.4	819.4	5280.6	µg/L	5280.6	ppb	07:27:17
2	Na 589.592 Radial†	7051.0	6999.6	9732.5	µg/L	9732.5	ppb	07:26:57
2	Sr 421.552†	43207.6	42567.7	491.48	µg/L	491.48	ppb	07:26:57
2	Sc 361.383	1414775.3	1414775.3	109.36	%			07:28:22
2	Y 371.029	816364.1	816364.1	106.89	%			07:28:22
2	Ag 328.068†	76929.5	69670.9	466.73	µg/L	466.73	ppb	07:28:24
2	As 188.979†	278.1	258.0	491.46	µg/L	491.46	ppb	07:28:44
2	B 249.677†	43848.7	39819.1	450.50	µg/L	450.50	ppb	07:28:24
2	Ba 233.527†	36336.3	33314.5	460.72	µg/L	460.72	ppb	07:28:24
2	Be 313.107†	1149833.5	1059363.5	447.57	µg/L	447.57	ppb	07:28:22
2	Cd 226.502†	33777.7	30992.0	462.22	µg/L	462.22	ppb	07:28:24
2	Co 228.616†	17678.4	16267.0	464.36	µg/L	464.36	ppb	07:28:24
2	Cr 267.716†	27974.6	25467.3	458.23	µg/L	458.23	ppb	07:28:24
2	Cu 324.752†	78990.5	68053.5	460.69	µg/L	460.69	ppb	07:28:24
2	Mn 257.610†	176740.8	161423.9	464.14	µg/L	464.14	ppb	07:28:24
2	Mo 202.031†	4679.5	4290.7	479.39	µg/L	479.39	ppb	07:28:44
2	Ni 231.604†	17625.4	16176.1	464.05	µg/L	464.05	ppb	07:28:24
2	P 214.914†	2531.0	2379.1	2413.5	µg/L	2413.5	ppb	07:28:44
2	Pb 220.353†	2645.4	2304.8	481.26	µg/L	481.26	ppb	07:28:44

2	S 181.975 Axial†	373.2	313.2	981.87 µg/L	981.87 ppb	07:28:44
2	Sb 206.836†	840.0	763.6	475.61 µg/L	475.61 ppb	07:28:44
2	Se 196.026†	420.6	372.8	487 µg/L	487 ppb	07:28:44
2	SiO2†	31875.9	27210.5	4926.2 µg/L	4926.2 ppb	07:28:24
2	Si 251.611†	87605.0	79715.2	2290.0 µg/L	2290.0 ppb	07:28:24
2	Sn 189.927†	1313.0	1199.9	479.34 µg/L	479.34 ppb	07:28:44
2	Ti 334.940†	275426.5	250307.7	461.87 µg/L	461.87 ppb	07:28:24
2	Tl 190.801†	419.4	401.5	478.37 µg/L	478.37 ppb	07:28:44
2	U 367.007†	2167.3	1689.1	447.71 µg/L	447.71 ppb	07:28:24
2	V 292.402†	72126.5	65651.4	465.67 µg/L	465.67 ppb	07:28:24
2	Zn 213.857†	41882.6	37748.2	462.76 µg/L	462.76 ppb	07:28:24
3	Sc RADIAL	24229.8	24229.8	102 %		07:27:19
3	Al 396.153Radial†	2275.8	2338.1	4903.6 µg/L	4903.6 ppb	07:27:39
3	Ca 317.933Radial†	8182.6	7935.7	5001.1 µg/L	5001.1 ppb	07:27:39
3	Fe 238.204 Radial†	1692.5	1625.5	5024.3 µg/L	5024.3 ppb	07:27:39
3	K 766.490 Radial†	4415.1	3607.0	4944.6 µg/L	4944.6 ppb	07:27:19
3	Mg 279.077 IEC†	820.2	800.6	5159.6 µg/L	5159.6 ppb	07:27:39
3	Na 589.592 Radial†	6944.9	6853.9	9530.0 µg/L	9530.0 ppb	07:27:19
3	Sr 421.552†	43401.0	42501.8	490.72 µg/L	490.72 ppb	07:27:19
3	Sc 361.383	1369440.2	1369440.2	105.85 %		07:28:47
3	Y 371.029	789131.2	789131.2	103.32 %		07:28:47
3	Ag 328.068†	79044.7	73998.0	495.73 µg/L	495.73 ppb	07:28:49
3	As 188.979†	272.7	261.2	497.90 µg/L	497.90 ppb	07:29:09
3	B 249.677†	44887.3	42127.6	478.34 µg/L	478.34 ppb	07:28:49
3	Ba 233.527†	37367.5	35388.6	489.41 µg/L	489.41 ppb	07:28:49
3	Be 313.107†	1222674.7	1162984.0	491.34 µg/L	491.34 ppb	07:28:47
3	Cd 226.502†	34841.4	33019.3	492.51 µg/L	492.51 ppb	07:28:49
3	Co 228.616†	18196.7	17291.8	493.60 µg/L	493.60 ppb	07:28:49
3	Cr 267.716†	28892.9	27181.6	489.07 µg/L	489.07 ppb	07:28:49
3	Cu 324.752†	81225.8	72556.4	491.11 µg/L	491.11 ppb	07:28:49
3	Mn 257.610†	181772.7	171527.8	493.20 µg/L	493.20 ppb	07:28:49
3	Mo 202.031†	4586.6	4344.7	485.40 µg/L	485.40 ppb	07:29:09
3	Ni 231.604†	18131.7	17188.0	493.08 µg/L	493.08 ppb	07:28:49
3	P 214.914†	2471.9	2399.9	2434.6 µg/L	2434.6 ppb	07:29:09
3	Pb 220.353†	2608.1	2349.6	490.62 µg/L	490.62 ppb	07:29:09
3	S 181.975 Axial†	362.7	314.6	986.30 µg/L	986.30 ppb	07:29:09
3	Sb 206.836†	821.5	771.5	480.37 µg/L	480.37 ppb	07:29:09
3	Se 196.026†	417.8	382.8	500 µg/L	500 ppb	07:29:09
3	SiO2†	32429.1	28698.1	5195.6 µg/L	5195.6 ppb	07:28:49
3	Si 251.611†	90201.0	84819.5	2436.9 µg/L	2436.9 ppb	07:28:49
3	Sn 189.927†	1275.3	1204.0	480.97 µg/L	480.97 ppb	07:29:09
3	Ti 334.940†	282688.3	265505.6	489.90 µg/L	489.90 ppb	07:28:49
3	Tl 190.801†	404.1	399.8	476.02 µg/L	476.02 ppb	07:29:09
3	U 367.007†	2167.9	1755.2	466.85 µg/L	466.85 ppb	07:28:49
3	V 292.402†	74151.2	69747.6	494.37 µg/L	494.37 ppb	07:28:49
3	Zn 213.857†	43099.4	40165.6	492.46 µg/L	492.46 ppb	07:28:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1378822.8	106.58	%	2.497				2.34%
Sc RADIAL	24498.3	103	%	2.5				2.43%
Y 371.029	795207.4	104.12	%	2.470				2.37%
Ag 328.068†	72648.9	486.70	µg/L	17.315	486.70	ppb	17.315	3.56%
QC value within limits for Ag 328.068 Recovery = 97.34%								
Al 396.153Radial†	2351.1	4931.1	µg/L	104.01	4931.1	ppb	104.01	2.11%
QC value within limits for Al 396.153Radial Recovery = 98.62%								
As 188.979†	263.1	501.40	µg/L	12.069	501.40	ppb	12.069	2.41%
QC value within limits for As 188.979 Recovery = 100.28%								
B 249.677†	41492.1	470.84	µg/L	17.809	470.84	ppb	17.809	3.78%
QC value within limits for B 249.677 Recovery = 94.17%								
Ba 233.527†	34710.3	480.03	µg/L	16.726	480.03	ppb	16.726	3.48%
QC value within limits for Ba 233.527 Recovery = 96.01%								
Be 313.107†	1129075.2	477.02	µg/L	25.510	477.02	ppb	25.510	5.35%
QC value within limits for Be 313.107 Recovery = 95.40%								
Ca 317.933Radial†	7927.8	4996.1	µg/L	118.00	4996.1	ppb	118.00	2.36%
QC value within limits for Ca 317.933Radial Recovery = 99.92%								
Cd 226.502†	32413.5	483.47	µg/L	18.467	483.47	ppb	18.467	3.82%
QC value within limits for Cd 226.502 Recovery = 96.69%								
Co 228.616†	16961.1	484.17	µg/L	17.158	484.17	ppb	17.158	3.54%

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   QC value within limits for Co 228.616  Recovery = 96.83%
Cr 267.716†            26651.1      479.53 µg/L        18.479      479.53 ppb         18.479   3.85%
   QC value within limits for Cr 267.716  Recovery = 95.91%
Cu 324.752†            71159.8      481.67 µg/L        18.197      481.67 ppb         18.197   3.78%
   QC value within limits for Cu 324.752  Recovery = 96.33%
Fe 238.204 Radial†      1624.1      5020.4 µg/L        112.62      5020.4 ppb         112.62   2.24%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.41%
K 766.490 Radial†       3580.5      4908.3 µg/L        230.76      4908.3 ppb         230.76   4.70%
   QC value within limits for K 766.490 Radial  Recovery = 98.17%
Mg 279.077 IEC†          800.2      5157.0 µg/L        125.01      5157.0 ppb         125.01   2.42%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.14%
Mn 257.610†           168455.7      484.36 µg/L        17.557      484.36 ppb         17.557   3.62%
   QC value within limits for Mn 257.610  Recovery = 96.87%
Mo 202.031†             4375.3      488.82 µg/L        11.531      488.82 ppb         11.531   2.36%
   QC value within limits for Mo 202.031  Recovery = 97.76%
Na 589.592 Radial†      6850.9      9525.8 µg/L        208.84      9525.8 ppb         208.84   2.19%
   QC value within limits for Na 589.592 Radial  Recovery = 95.26%
Ni 231.604†            16894.4      484.66 µg/L        17.946      484.66 ppb         17.946   3.70%
   QC value within limits for Ni 231.604  Recovery = 96.93%
P 214.914†              2421.1      2456.3 µg/L         56.77      2456.3 ppb          56.77   2.31%
   QC value within limits for P 214.914  Recovery = 98.25%
Pb 220.353†             2365.7      493.98 µg/L        14.686      493.98 ppb         14.686   2.97%
   QC value within limits for Pb 220.353  Recovery = 98.80%
S 181.975 Axial†         317.8      996.55 µg/L        21.696      996.55 ppb         21.696   2.18%
   QC value within limits for S 181.975 Axial  Recovery = 99.65%
Sb 206.836†              776.2      483.39 µg/L         9.658      483.39 ppb          9.658   2.00%
   QC value within limits for Sb 206.836  Recovery = 96.68%
Se 196.026†              384.2         502 µg/L          15.9         502 ppb           15.9   3.16%
   QC value within limits for Se 196.026  Recovery = 100.35%
SiO2†                  28302.9      5124.0 µg/L        173.47      5124.0 ppb         173.47   3.39%
   QC value within limits for SiO2  Recovery = 95.82%
Si 251.611†            83246.6      2391.5 µg/L         88.13      2391.5 ppb          88.13   3.68%
   QC value within limits for Si 251.611  Recovery = 95.66%
Sn 189.927†             1217.8      486.47 µg/L        10.972      486.47 ppb         10.972   2.26%
   QC value within limits for Sn 189.927  Recovery = 97.29%
Sr 421.552†            41719.2      481.69 µg/L        16.315      481.69 ppb         16.315   3.39%
   QC value within limits for Sr 421.552  Recovery = 96.34%
Ti 334.940†           260969.6      481.53 µg/L        17.092      481.53 ppb         17.092   3.55%
   QC value within limits for Ti 334.940  Recovery = 96.31%
Tl 190.801†              405.6      483.18 µg/L        10.428      483.18 ppb         10.428   2.16%
   QC value within limits for Tl 190.801  Recovery = 96.64%
U 367.007†              1730.2      459.85 µg/L        10.554      459.85 ppb         10.554   2.30%
   QC value within limits for U 367.007  Recovery = 91.97%
V 292.402†             68553.8      486.06 µg/L        17.759      486.06 ppb         17.759   3.65%
   QC value within limits for V 292.402  Recovery = 97.21%
Zn 213.857†            39473.3      483.96 µg/L        18.479      483.96 ppb         18.479   3.82%
   QC value within limits for Zn 213.857  Recovery = 96.79%
All analyte(s) passed QC.
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Sequence No.: 14 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 07:29:17**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23834.1	23834.1	100	%			07:30:04
1	Al 396.153Radial†	-119.1	-10.6	-22.311	µg/L	-22.311	ppb	07:30:04
1	Ca 317.933Radial†	84.8	2.0	1.2629	µg/L	1.2629	ppb	07:30:24
1	Fe 238.204 Radial†	33.7	0.6	1.7661	µg/L	1.7661	ppb	07:30:24
1	K 766.490 Radial†	800.1	77.7	106.25	µg/L	106.25	ppb	07:30:04
1	Mg 279.077 IEC†	2.6	-0.5	-3.3311	µg/L	-3.3311	ppb	07:30:24
1	Na 589.592 Radial†	-30.9	17.9	24.905	µg/L	24.905	ppb	07:30:04
1	Sr 421.552†	49.3	22.2	0.2565	µg/L	0.2565	ppb	07:30:04
1	Sc 361.383	1331553.5	1331553.5	102.93	%			07:32:02
1	Y 371.029	785197.0	785197.0	102.81	%			07:32:02
1	Ag 328.068†	785.1	87.6	0.5652	µg/L	0.5652	ppb	07:32:04
1	As 188.979†	0.8	4.5	8.3717	µg/L	8.3717	ppb	07:32:24
1	B 249.677†	705.2	407.9	4.7675	µg/L	4.7675	ppb	07:32:04
1	Ba 233.527†	-93.6	-3.3	-0.0437	µg/L	-0.0437	ppb	07:32:24
1	Be 313.107†	-8243.6	-81.3	-0.0344	µg/L	-0.0344	ppb	07:32:04
1	Cd 226.502†	-76.9	30.1	0.4490	µg/L	0.4490	ppb	07:32:24
1	Co 228.616†	-107.9	-3.4	-0.0974	µg/L	-0.0974	ppb	07:32:24
1	Cr 267.716†	121.6	4.7	0.0689	µg/L	0.0689	ppb	07:32:24
1	Cu 324.752†	4305.1	5.4	0.0483	µg/L	0.0483	ppb	07:32:04
1	Mn 257.610†	212.3	14.1	0.0406	µg/L	0.0406	ppb	07:32:24
1	Mo 202.031†	-0.0	11.7	1.3011	µg/L	1.3011	ppb	07:32:24
1	Ni 231.604†	-62.5	-1.7	-0.0497	µg/L	-0.0497	ppb	07:32:24
1	P 214.914†	-74.9	-8.1	-8.2558	µg/L	-8.2558	ppb	07:32:24
1	Pb 220.353†	122.9	5.2	1.0613	µg/L	1.0613	ppb	07:32:24
1	S 181.975 Axial†	26.0	-2.8	-9.0140	µg/L	-9.0140	ppb	07:32:24
1	Sb 206.836†	2.4	-2.2	-1.3520	µg/L	-1.3520	ppb	07:32:24
1	Se 196.026†	15.5	3.2	4.17	µg/L	4.17	ppb	07:32:24
1	SiO2†	2021.6	26.6	4.8109	µg/L	4.8109	ppb	07:32:04
1	Si 251.611†	473.1	66.7	1.9038	µg/L	1.9038	ppb	07:32:24
1	Sn 189.927†	3.7	2.8	1.1303	µg/L	1.1303	ppb	07:32:24
1	Ti 334.940†	1887.5	285.0	0.5133	µg/L	0.5133	ppb	07:32:04
1	Tl 190.801†	-15.6	2.9	3.4343	µg/L	3.4343	ppb	07:32:24
1	U 367.007†	392.5	88.6	25.037	µg/L	25.037	ppb	07:32:04
1	V 292.402†	388.3	74.5	0.5501	µg/L	0.5501	ppb	07:32:04
1	Zn 213.857†	652.2	83.5	1.0317	µg/L	1.0317	ppb	07:32:24
2	Sc RADIAL	23215.0	23215.0	97.8	%			07:30:44
2	Al 396.153Radial†	-103.7	2.0	4.1568	µg/L	4.1568	ppb	07:30:44
2	Ca 317.933Radial†	83.7	3.2	2.0180	µg/L	2.0180	ppb	07:31:04
2	Fe 238.204 Radial†	31.4	-0.9	-2.8155	µg/L	-2.8155	ppb	07:31:04
2	K 766.490 Radial†	767.7	65.9	90.113	µg/L	90.113	ppb	07:30:44
2	Mg 279.077 IEC†	2.3	-0.8	-5.2696	µg/L	-5.2696	ppb	07:31:04
2	Na 589.592 Radial†	-36.0	11.8	16.425	µg/L	16.425	ppb	07:30:44
2	Sr 421.552†	30.5	4.3	0.0500	µg/L	0.0500	ppb	07:30:44
2	Sc 361.383	1343594.8	1343594.8	103.86	%			07:32:26
2	Y 371.029	791959.0	791959.0	103.69	%			07:32:26
2	Ag 328.068†	834.7	128.5	0.8436	µg/L	0.8436	ppb	07:32:28
2	As 188.979†	-3.7	0.1	0.2022	µg/L	0.2022	ppb	07:32:48
2	B 249.677†	745.8	440.9	5.1813	µg/L	5.1813	ppb	07:32:28
2	Ba 233.527†	-90.9	0.2	0.0030	µg/L	0.0030	ppb	07:32:48
2	Be 313.107†	-8190.5	41.6	0.0176	µg/L	0.0176	ppb	07:32:28
2	Cd 226.502†	-100.2	8.3	0.1241	µg/L	0.1241	ppb	07:32:48
2	Co 228.616†	-99.9	5.2	0.1505	µg/L	0.1505	ppb	07:32:48
2	Cr 267.716†	139.4	20.8	0.3621	µg/L	0.3621	ppb	07:32:48
2	Cu 324.752†	4228.6	-105.7	-0.7055	µg/L	-0.7055	ppb	07:32:28
2	Mn 257.610†	240.6	39.5	0.1138	µg/L	0.1138	ppb	07:32:48
2	Mo 202.031†	-3.3	8.5	0.9522	µg/L	0.9522	ppb	07:32:48
2	Ni 231.604†	-61.7	-0.4	-0.0117	µg/L	-0.0117	ppb	07:32:48
2	P 214.914†	-75.4	-7.9	-8.0658	µg/L	-8.0658	ppb	07:32:48
2	Pb 220.353†	112.2	-6.2	-1.3070	µg/L	-1.3070	ppb	07:32:48

2	S 181.975 Axial†	34.4	5.0	15.695	µg/L	15.695	ppb	07:32:48
2	Sb 206.836†	9.2	4.3	2.6945	µg/L	2.6945	ppb	07:32:48
2	Se 196.026†	18.7	6.1	7.99	µg/L	7.99	ppb	07:32:48
2	SiO2†	2010.2	-2.0	-0.3563	µg/L	-0.3563	ppb	07:32:28
2	Si 251.611†	455.9	46.0	1.3127	µg/L	1.3127	ppb	07:32:48
2	Sn 189.927†	7.0	6.0	2.3752	µg/L	2.3752	ppb	07:32:48
2	Ti 334.940†	1744.8	131.1	0.2325	µg/L	0.2325	ppb	07:32:28
2	Tl 190.801†	-9.2	9.1	11.007	µg/L	11.007	ppb	07:32:48
2	U 367.007†	371.8	65.3	18.469	µg/L	18.469	ppb	07:32:28
2	V 292.402†	354.0	38.1	0.2885	µg/L	0.2885	ppb	07:32:28
2	Zn 213.857†	646.0	71.8	0.8882	µg/L	0.8882	ppb	07:32:48
3	Sc RADIAL	23365.3	23365.3	98.4	%			07:31:24
3	Al 396.153Radial†	-105.3	1.0	2.1803	µg/L	2.1803	ppb	07:31:24
3	Ca 317.933Radial†	84.7	3.6	2.2859	µg/L	2.2859	ppb	07:31:44
3	Fe 238.204 Radial†	35.4	3.0	9.2625	µg/L	9.2625	ppb	07:31:44
3	K 766.490 Radial†	783.1	76.5	104.62	µg/L	104.62	ppb	07:31:24
3	Mg 279.077 IEC†	8.8	5.9	37.824	µg/L	37.824	ppb	07:31:44
3	Na 589.592 Radial†	-46.1	1.8	2.5334	µg/L	2.5334	ppb	07:31:24
3	Sr 421.552†	27.4	1.0	0.0119	µg/L	0.0119	ppb	07:31:24
3	Sc 361.383	1335034.0	1335034.0	103.19	%			07:32:50
3	Y 371.029	787241.9	787241.9	103.08	%			07:32:50
3	Ag 328.068†	762.2	63.4	0.4107	µg/L	0.4107	ppb	07:32:52
3	As 188.979†	-2.6	1.1	2.0419	µg/L	2.0419	ppb	07:33:12
3	B 249.677†	512.4	219.2	2.5134	µg/L	2.5134	ppb	07:32:52
3	Ba 233.527†	-80.3	9.9	0.1367	µg/L	0.1367	ppb	07:33:12
3	Be 313.107†	-8420.8	-232.1	-0.0980	µg/L	-0.0980	ppb	07:32:52
3	Cd 226.502†	-93.2	14.5	0.2152	µg/L	0.2152	ppb	07:33:12
3	Co 228.616†	-89.0	15.2	0.4343	µg/L	0.4343	ppb	07:33:12
3	Cr 267.716†	112.5	-4.5	-0.0904	µg/L	-0.0904	ppb	07:33:12
3	Cu 324.752†	4167.6	-138.7	-0.9279	µg/L	-0.9279	ppb	07:32:52
3	Mn 257.610†	223.7	24.6	0.0699	µg/L	0.0699	ppb	07:33:12
3	Mo 202.031†	-8.4	3.5	0.3950	µg/L	0.3950	ppb	07:33:12
3	Ni 231.604†	-40.5	19.7	0.5658	µg/L	0.5658	ppb	07:33:12
3	P 214.914†	-76.5	-9.4	-9.6437	µg/L	-9.6437	ppb	07:33:12
3	Pb 220.353†	100.3	-17.1	-3.5712	µg/L	-3.5712	ppb	07:33:12
3	S 181.975 Axial†	31.8	2.7	8.5404	µg/L	8.5404	ppb	07:33:12
3	Sb 206.836†	3.9	-0.8	-0.4866	µg/L	-0.4866	ppb	07:33:12
3	Se 196.026†	19.6	7.2	9.31	µg/L	9.31	ppb	07:33:12
3	SiO2†	2142.0	138.2	24.966	µg/L	24.966	ppb	07:32:52
3	Si 251.611†	463.0	55.7	1.5995	µg/L	1.5995	ppb	07:33:12
3	Sn 189.927†	5.2	4.3	1.7171	µg/L	1.7171	ppb	07:33:12
3	Ti 334.940†	1521.8	-74.2	-0.1452	µg/L	-0.1452	ppb	07:32:52
3	Tl 190.801†	-18.8	-0.3	-0.3236	µg/L	-0.3236	ppb	07:33:12
3	U 367.007†	359.1	55.2	15.571	µg/L	15.571	ppb	07:32:52
3	V 292.402†	352.9	39.2	0.2888	µg/L	0.2888	ppb	07:32:52
3	Zn 213.857†	636.6	66.7	0.8188	µg/L	0.8188	ppb	07:33:12

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1336727.4	103.33	%	0.479				0.46%
Sc RADIAL	23471.5	98.9	%	1.36				1.38%
Y 371.029	788132.6	103.19	%	0.454				0.44%
Ag 328.068†	93.1	0.6065	µg/L	0.21938	0.6065	ppb	0.21938	36.17%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-2.5	-5.3245	µg/L	14.74355	-5.3245	ppb	14.74355	276.90%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	1.9	3.5386	µg/L	4.28548	3.5386	ppb	4.28548	121.11%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	356.0	4.1541	µg/L	1.43585	4.1541	ppb	1.43585	34.56%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	2.3	0.0320	µg/L	0.09360	0.0320	ppb	0.09360	292.62%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-90.6	-0.0383	µg/L	0.05791	-0.0383	ppb	0.05791	151.32%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.9	1.8556	µg/L	0.53045	1.8556	ppb	0.53045	28.59%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	17.6	0.2627	µg/L	0.16759	0.2627	ppb	0.16759	63.78%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	5.7	0.1625	µg/L	0.26606	0.1625	ppb	0.26606	163.76%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                7.0      0.1135 µg/L       0.22951      0.1135 ppb        0.22951 202.19%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -79.7     -0.5284 µg/L       0.51164     -0.5284 ppb        0.51164  96.83%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         0.9      2.7377 µg/L       6.09732      2.7377 ppb        6.09732 222.72%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         73.3      100.33 µg/L         8.883      100.33 ppb          8.883   8.85%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            1.5      9.7411 µg/L      24.33972      9.7411 ppb       24.33972 249.87%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               26.1      0.0748 µg/L       0.03682      0.0748 ppb        0.03682  49.26%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                7.9      0.8828 µg/L       0.45703      0.8828 ppb        0.45703  51.77%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        10.5      14.621 µg/L       11.2942      14.621 ppb        11.2942  77.25%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                5.9      0.1682 µg/L       0.34489      0.1682 ppb        0.34489 205.10%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -8.5     -8.6551 µg/L       0.86144     -8.6551 ppb        0.86144   9.95%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -6.0     -1.2723 µg/L       2.31641     -1.2723 ppb        2.31641 182.06%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.6      5.0738 µg/L      12.71405      5.0738 ppb       12.71405 250.58%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                0.4      0.2853 µg/L       2.13081      0.2853 ppb        2.13081 746.83%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                5.5        7.16 µg/L         2.670        7.16 ppb          2.670  37.31%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     54.3      9.8067 µg/L      13.37979      9.8067 ppb       13.37979 136.43%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               56.1      1.6053 µg/L       0.29558      1.6053 ppb        0.29558  18.41%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                4.4      1.7409 µg/L       0.62275      1.7409 ppb        0.62275  35.77%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                9.2      0.1061 µg/L       0.13159      0.1061 ppb        0.13159 123.97%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              113.9      0.2002 µg/L       0.33044      0.2002 ppb        0.33044 165.05%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                3.9      4.7058 µg/L       5.77129      4.7058 ppb        5.77129 122.64%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                69.7      19.692 µg/L        4.8502      19.692 ppb         4.8502  24.63%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                50.6      0.3758 µg/L       0.15095      0.3758 ppb        0.15095  40.17%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               74.0      0.9129 µg/L       0.10854      0.9129 ppb        0.10854  11.89%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 4 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 07:45:58**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23940.7	23940.7	101	%			07:46:30
1	Al 396.153Radial†	2303.0	2391.9	5016.6	µg/L	5016.6	ppb	07:46:50
1	Ca 317.933Radial†	7992.3	7843.8	4943.2	µg/L	4943.2	ppb	07:46:50
1	Fe 238.204 Radial†	1659.6	1612.8	4985.2	µg/L	4985.2	ppb	07:46:50
1	K 766.490 Radial†	4275.4	3520.7	4826.3	µg/L	4826.3	ppb	07:46:30
1	Mg 279.077 IEC†	800.5	790.8	5096.2	µg/L	5096.2	ppb	07:46:50
1	Na 589.592 Radial†	7146.0	7135.6	9921.6	µg/L	9921.6	ppb	07:46:30
1	Sr 421.552†	42800.9	42420.3	489.78	µg/L	489.78	ppb	07:46:30
1	Sc 361.383	1366383.9	1366383.9	105.62	%			07:47:52
1	Y 371.029	787883.3	787883.3	103.16	%			07:47:52
1	Ag 328.068†	77836.5	73021.1	489.19	µg/L	489.19	ppb	07:47:54
1	As 188.979†	271.0	260.2	495.89	µg/L	495.89	ppb	07:48:14
1	B 249.677†	43183.9	40609.6	460.59	µg/L	460.59	ppb	07:47:54
1	Ba 233.527†	36838.5	34966.7	483.57	µg/L	483.57	ppb	07:47:54
1	Be 313.107†	1215900.6	1159153.8	489.73	µg/L	489.73	ppb	07:47:52
1	Cd 226.502†	34066.9	32359.6	482.67	µg/L	482.67	ppb	07:47:54
1	Co 228.616†	17901.0	17050.3	486.71	µg/L	486.71	ppb	07:47:54
1	Cr 267.716†	28272.4	26655.1	479.60	µg/L	479.60	ppb	07:47:54
1	Cu 324.752†	79751.6	71332.3	482.83	µg/L	482.83	ppb	07:47:54
1	Mn 257.610†	178981.2	169268.9	486.70	µg/L	486.70	ppb	07:47:54
1	Mo 202.031†	4620.2	4386.2	490.03	µg/L	490.03	ppb	07:48:14
1	Ni 231.604†	17768.3	16882.2	484.31	µg/L	484.31	ppb	07:47:54
1	P 214.914†	2456.2	2390.2	2424.8	µg/L	2424.8	ppb	07:48:14
1	Pb 220.353†	2626.6	2372.6	495.43	µg/L	495.43	ppb	07:48:14
1	S 181.975 Axial†	357.6	310.5	973.38	µg/L	973.38	ppb	07:48:14
1	Sb 206.836†	820.6	772.4	481.05	µg/L	481.05	ppb	07:48:14
1	Se 196.026†	417.9	383.9	501	µg/L	501	ppb	07:48:14
1	SiO2†	31646.1	28025.3	5073.8	µg/L	5073.8	ppb	07:47:54
1	Si 251.611†	87745.2	82685.0	2375.3	µg/L	2375.3	ppb	07:47:54
1	Sn 189.927†	1296.9	1227.1	490.20	µg/L	490.20	ppb	07:48:14
1	Ti 334.940†	278224.7	261876.8	483.20	µg/L	483.20	ppb	07:47:54
1	Tl 190.801†	417.9	413.7	492.88	µg/L	492.88	ppb	07:48:14
1	U 367.007†	2147.5	1740.5	462.94	µg/L	462.94	ppb	07:47:54
1	V 292.402†	73038.9	68851.1	488.15	µg/L	488.15	ppb	07:47:54
1	Zn 213.857†	42088.5	39299.6	481.83	µg/L	481.83	ppb	07:47:54
2	Sc RADIAL	23014.0	23014.0	96.9	%			07:46:52
2	Al 396.153Radial†	2194.2	2371.7	4974.1	µg/L	4974.1	ppb	07:47:12
2	Ca 317.933Radial†	7672.6	7833.2	4936.5	µg/L	4936.5	ppb	07:47:12
2	Fe 238.204 Radial†	1601.3	1619.0	5004.1	µg/L	5004.1	ppb	07:47:12
2	K 766.490 Radial†	4190.3	3603.6	4939.7	µg/L	4939.7	ppb	07:46:52
2	Mg 279.077 IEC†	776.9	798.4	5145.4	µg/L	5145.4	ppb	07:47:12
2	Na 589.592 Radial†	7086.9	7360.0	10234	µg/L	10234	ppb	07:46:52
2	Sr 421.552†	41707.4	43001.5	496.49	µg/L	496.49	ppb	07:46:52
2	Sc 361.383	1354469.4	1354469.4	104.70	%			07:48:16
2	Y 371.029	781707.7	781707.7	102.35	%			07:48:16
2	Ag 328.068†	77908.7	73738.3	493.99	µg/L	493.99	ppb	07:48:18
2	As 188.979†	269.7	261.2	497.86	µg/L	497.86	ppb	07:48:38
2	B 249.677†	43471.1	41243.6	467.98	µg/L	467.98	ppb	07:48:18
2	Ba 233.527†	37141.2	35562.6	491.81	µg/L	491.81	ppb	07:48:18
2	Be 313.107†	1206447.5	1160251.5	490.19	µg/L	490.19	ppb	07:48:16
2	Cd 226.502†	34251.9	32820.0	489.55	µg/L	489.55	ppb	07:48:18
2	Co 228.616†	18002.6	17296.4	493.73	µg/L	493.73	ppb	07:48:18
2	Cr 267.716†	28422.9	27034.4	486.42	µg/L	486.42	ppb	07:48:18
2	Cu 324.752†	80232.6	72455.9	490.43	µg/L	490.43	ppb	07:48:18
2	Mn 257.610†	179465.3	171221.9	492.32	µg/L	492.32	ppb	07:48:18
2	Mo 202.031†	4543.1	4350.9	486.10	µg/L	486.10	ppb	07:48:38
2	Ni 231.604†	18074.9	17323.0	496.96	µg/L	496.96	ppb	07:48:18
2	P 214.914†	2407.6	2364.2	2398.2	µg/L	2398.2	ppb	07:48:38
2	Pb 220.353†	2586.8	2356.5	492.05	µg/L	492.05	ppb	07:48:38

2	S 181.975 Axial†	343.7	300.2	941.00 µg/L	941.00 ppb	07:48:38
2	Sb 206.836†	807.2	766.4	477.21 µg/L	477.21 ppb	07:48:38
2	Se 196.026†	400.0	370.2	483 µg/L	483 ppb	07:48:38
2	SiO2†	31785.8	28422.2	5145.7 µg/L	5145.7 ppb	07:48:18
2	Si 251.611†	88085.2	83740.5	2405.8 µg/L	2405.8 ppb	07:48:18
2	Sn 189.927†	1254.4	1197.4	478.32 µg/L	478.32 ppb	07:48:38
2	Ti 334.940†	279011.8	264945.8	488.86 µg/L	488.86 ppb	07:48:18
2	Tl 190.801†	405.7	405.5	482.88 µg/L	482.88 ppb	07:48:38
2	U 367.007†	2170.5	1780.4	474.09 µg/L	474.09 ppb	07:48:18
2	V 292.402†	73176.7	69591.1	493.28 µg/L	493.28 ppb	07:48:18
2	Zn 213.857†	42218.6	39774.3	487.61 µg/L	487.61 ppb	07:48:18
3	Sc RADIAL	24097.3	24097.3	101 %		07:47:14
3	Al 396.153Radial†	2303.4	2377.5	4986.4 µg/L	4986.4 ppb	07:47:34
3	Ca 317.933Radial†	8158.3	7955.8	5013.8 µg/L	5013.8 ppb	07:47:34
3	Fe 238.204 Radial†	1689.4	1631.5	5043.0 µg/L	5043.0 ppb	07:47:34
3	K 766.490 Radial†	4429.2	3644.7	4996.1 µg/L	4996.1 ppb	07:47:14
3	Mg 279.077 IEC†	812.4	797.3	5138.3 µg/L	5138.3 ppb	07:47:34
3	Na 589.592 Radial†	7236.5	7178.7	9981.5 µg/L	9981.5 ppb	07:47:14
3	Sr 421.552†	43252.5	42589.4	491.74 µg/L	491.74 ppb	07:47:14
3	Sc 361.383	1307192.6	1307192.6	101.04 %		07:48:40
3	Y 371.029	755050.7	755050.7	98.861 %		07:48:40
3	Ag 328.068†	75507.6	74053.3	496.08 µg/L	496.08 ppb	07:48:43
3	As 188.979†	263.7	264.7	504.34 µg/L	504.34 ppb	07:49:03
3	B 249.677†	41775.2	41066.9	465.71 µg/L	465.71 ppb	07:48:43
3	Ba 233.527†	35503.1	35224.5	487.14 µg/L	487.14 ppb	07:48:43
3	Be 313.107†	1161954.0	1157892.7	489.19 µg/L	489.19 ppb	07:48:40
3	Cd 226.502†	32931.0	32696.0	487.69 µg/L	487.69 ppb	07:48:43
3	Co 228.616†	17263.8	17187.1	490.62 µg/L	490.62 ppb	07:48:43
3	Cr 267.716†	27418.7	27022.4	486.19 µg/L	486.19 ppb	07:48:43
3	Cu 324.752†	77465.9	72489.4	490.67 µg/L	490.67 ppb	07:48:43
3	Mn 257.610†	172973.2	170996.3	491.67 µg/L	491.67 ppb	07:48:43
3	Mo 202.031†	4462.0	4427.7	494.67 µg/L	494.67 ppb	07:49:03
3	Ni 231.604†	17271.8	17152.6	492.06 µg/L	492.06 ppb	07:48:43
3	P 214.914†	2331.4	2372.0	2406.0 µg/L	2406.0 ppb	07:49:03
3	Pb 220.353†	2518.0	2377.8	496.49 µg/L	496.49 ppb	07:49:03
3	S 181.975 Axial†	338.3	306.7	961.29 µg/L	961.29 ppb	07:49:03
3	Sb 206.836†	787.0	774.4	482.24 µg/L	482.24 ppb	07:49:03
3	Se 196.026†	394.0	378.1	494 µg/L	494 ppb	07:49:03
3	SiO2†	30767.5	28512.5	5162.0 µg/L	5162.0 ppb	07:48:43
3	Si 251.611†	84910.3	83641.2	2402.8 µg/L	2402.8 ppb	07:48:43
3	Sn 189.927†	1236.4	1222.9	488.50 µg/L	488.50 ppb	07:49:03
3	Ti 334.940†	268964.3	264640.2	488.29 µg/L	488.29 ppb	07:48:43
3	Tl 190.801†	399.2	413.1	492.14 µg/L	492.14 ppb	07:49:03
3	U 367.007†	2148.7	1833.8	488.98 µg/L	488.98 ppb	07:48:43
3	V 292.402†	70621.7	69590.2	493.40 µg/L	493.40 ppb	07:48:43
3	Zn 213.857†	40735.2	39764.7	487.51 µg/L	487.51 ppb	07:48:43

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1342682.0	103.79	%	2.420				2.33%
Sc RADIAL	23684.0	99.8	%	2.47				2.47%
Y 371.029	774880.5	101.46	%	2.285				2.25%
Ag 328.068†	73604.2	493.09	µg/L	3.533	493.09	ppb	3.533	0.72%
QC value within limits for Ag 328.068 Recovery = 98.62%								
Al 396.153Radial†	2380.4	4992.4	µg/L	21.88	4992.4	ppb	21.88	0.44%
QC value within limits for Al 396.153Radial Recovery = 99.85%								
As 188.979†	262.0	499.36	µg/L	4.424	499.36	ppb	4.424	0.89%
QC value within limits for As 188.979 Recovery = 99.87%								
B 249.677†	40973.4	464.76	µg/L	3.789	464.76	ppb	3.789	0.82%
QC value within limits for B 249.677 Recovery = 92.95%								
Ba 233.527†	35251.3	487.51	µg/L	4.129	487.51	ppb	4.129	0.85%
QC value within limits for Ba 233.527 Recovery = 97.50%								
Be 313.107†	1159099.3	489.70	µg/L	0.499	489.70	ppb	0.499	0.10%
QC value within limits for Be 313.107 Recovery = 97.94%								
Ca 317.933Radial†	7877.6	4964.5	µg/L	42.85	4964.5	ppb	42.85	0.86%
QC value within limits for Ca 317.933Radial Recovery = 99.29%								
Cd 226.502†	32625.2	486.63	µg/L	3.558	486.63	ppb	3.558	0.73%
QC value within limits for Cd 226.502 Recovery = 97.33%								
Co 228.616†	17177.9	490.35	µg/L	3.516	490.35	ppb	3.516	0.72%

```
   QC value within limits for Co 228.616  Recovery = 98.07%
Cr 267.716†            26904.0      484.07 µg/L         3.874      484.07 ppb          3.874   0.80%
   QC value within limits for Cr 267.716  Recovery = 96.81%
Cu 324.752†            72092.5      487.98 µg/L         4.458      487.98 ppb          4.458   0.91%
   QC value within limits for Cu 324.752  Recovery = 97.60%
Fe 238.204 Radial†      1621.1      5010.8 µg/L         29.48      5010.8 ppb          29.48   0.59%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.22%
K 766.490 Radial†       3589.7      4920.7 µg/L         86.46      4920.7 ppb          86.46   1.76%
   QC value within limits for K 766.490 Radial  Recovery = 98.41%
Mg 279.077 IEC†          795.5      5126.7 µg/L         26.60      5126.7 ppb          26.60   0.52%
   QC value within limits for Mg 279.077 IEC  Recovery = 102.53%
Mn 257.610†           170495.7      490.23 µg/L         3.072      490.23 ppb          3.072   0.63%
   QC value within limits for Mn 257.610  Recovery = 98.05%
Mo 202.031†             4388.3      490.27 µg/L         4.290      490.27 ppb          4.290   0.87%
   QC value within limits for Mo 202.031  Recovery = 98.05%
Na 589.592 Radial†      7224.7       10046 µg/L         165.6       10046 ppb          165.6   1.65%
   QC value within limits for Na 589.592 Radial  Recovery = 100.46%
Ni 231.604†            17119.3      491.11 µg/L         6.377      491.11 ppb          6.377   1.30%
   QC value within limits for Ni 231.604  Recovery = 98.22%
P 214.914†              2375.5      2409.7 µg/L         13.68      2409.7 ppb          13.68   0.57%
   QC value within limits for P 214.914  Recovery = 96.39%
Pb 220.353†             2369.0      494.66 µg/L         2.317      494.66 ppb          2.317   0.47%
   QC value within limits for Pb 220.353  Recovery = 98.93%
S 181.975 Axial†         305.8      958.56 µg/L        16.360      958.56 ppb         16.360   1.71%
   QC value within limits for S 181.975 Axial  Recovery = 95.86%
Sb 206.836†              771.1      480.17 µg/L         2.629      480.17 ppb          2.629   0.55%
   QC value within limits for Sb 206.836  Recovery = 96.03%
Se 196.026†              377.4         493 µg/L           8.9         493 ppb            8.9   1.81%
   QC value within limits for Se 196.026  Recovery = 98.56%
SiO2†                  28320.0      5127.2 µg/L         46.92      5127.2 ppb          46.92   0.92%
   QC value within limits for SiO2  Recovery = 95.88%
Si 251.611†            83355.6      2394.6 µg/L         16.79      2394.6 ppb          16.79   0.70%
   QC value within limits for Si 251.611  Recovery = 95.79%
Sn 189.927†             1215.8      485.67 µg/L         6.422      485.67 ppb          6.422   1.32%
   QC value within limits for Sn 189.927  Recovery = 97.13%
Sr 421.552†            42670.4      492.67 µg/L         3.452      492.67 ppb          3.452   0.70%
   QC value within limits for Sr 421.552  Recovery = 98.53%
Ti 334.940†           263820.9      486.79 µg/L         3.115      486.79 ppb          3.115   0.64%
   QC value within limits for Ti 334.940  Recovery = 97.36%
Tl 190.801†              410.8      489.30 µg/L         5.567      489.30 ppb          5.567   1.14%
   QC value within limits for Tl 190.801  Recovery = 97.86%
U 367.007†              1784.9      475.34 µg/L        13.066      475.34 ppb         13.066   2.75%
   QC value within limits for U 367.007  Recovery = 95.07%
V 292.402†             69344.1      491.61 µg/L         2.998      491.61 ppb          2.998   0.61%
   QC value within limits for V 292.402  Recovery = 98.32%
Zn 213.857†            39612.9      485.65 µg/L         3.312      485.65 ppb          3.312   0.68%
   QC value within limits for Zn 213.857  Recovery = 97.13%
All analyte(s) passed QC.
```

Sequence No.: 5 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/6/2013 07:49:10**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23780.9	23780.9	100	%			07:49:59
1	Al 396.153Radial†	1.1	109.1	228.83	µg/L	228.83	ppb	07:49:59
1	Ca 317.933Radial†	433.1	349.9	220.49	µg/L	220.49	ppb	07:50:19
1	Fe 238.204 Radial†	63.1	30.0	92.757	µg/L	92.757	ppb	07:50:19
1	K 766.490 Radial†	862.7	142.0	194.36	µg/L	194.36	ppb	07:49:59
1	Mg 279.077 IEC†	60.4	57.2	368.31	µg/L	368.31	ppb	07:50:19
1	Na 589.592 Radial†	157.7	206.1	286.61	µg/L	286.61	ppb	07:49:59
1	Sr 421.552†	466.3	438.7	5.0639	µg/L	5.0639	ppb	07:49:59
1	Sc 361.383	1355327.1	1355327.1	104.76	%			07:51:57
1	Y 371.029	798278.6	798278.6	104.52	%			07:51:57
1	Ag 328.068†	1527.2	782.5	5.1893	µg/L	5.1893	ppb	07:51:59
1	As 188.979†	15.3	18.2	34.363	µg/L	34.363	ppb	07:52:19
1	B 249.677†	4656.3	4167.4	48.808	µg/L	48.808	ppb	07:51:59
1	Ba 233.527†	286.4	361.0	4.9932	µg/L	4.9932	ppb	07:52:19
1	Be 313.107†	4104.5	11845.9	5.0047	µg/L	5.0047	ppb	07:51:59
1	Cd 226.502†	266.8	359.5	5.3568	µg/L	5.3568	ppb	07:52:19
1	Co 228.616†	91.2	188.5	5.3857	µg/L	5.3857	ppb	07:52:19
1	Cr 267.716†	422.6	290.0	5.1762	µg/L	5.1762	ppb	07:52:19
1	Cu 324.752†	5840.5	1397.7	9.4829	µg/L	9.4829	ppb	07:51:59
1	Mn 257.610†	3897.9	3528.5	10.136	µg/L	10.136	ppb	07:52:19
1	Mo 202.031†	81.3	89.3	9.9876	µg/L	9.9876	ppb	07:52:19
1	Ni 231.604†	137.8	190.6	5.4664	µg/L	5.4664	ppb	07:52:19
1	P 214.914†	71.2	132.6	135.10	µg/L	135.10	ppb	07:52:19
1	Pb 220.353†	157.0	35.6	7.3950	µg/L	7.3950	ppb	07:52:19
1	S 181.975 Axial†	62.6	31.6	99.389	µg/L	99.389	ppb	07:52:19
1	Sb 206.836†	18.1	12.7	7.9773	µg/L	7.9773	ppb	07:52:19
1	Se 196.026†	31.7	18.4	24.0	µg/L	24.0	ppb	07:52:19
1	SiO2†	3296.2	1208.8	218.54	µg/L	218.54	ppb	07:51:59
1	Si 251.611†	3992.2	3417.7	98.308	µg/L	98.308	ppb	07:51:59
1	Sn 189.927†	32.4	30.2	12.067	µg/L	12.067	ppb	07:52:19
1	Ti 334.940†	4551.6	2795.8	5.1349	µg/L	5.1349	ppb	07:51:59
1	Tl 190.801†	2.7	20.6	24.709	µg/L	24.709	ppb	07:52:19
1	U 367.007†	540.5	223.2	62.547	µg/L	62.547	ppb	07:51:59
1	V 292.402†	1100.7	747.9	5.3986	µg/L	5.3986	ppb	07:51:59
1	Zn 213.857†	1429.9	814.6	10.007	µg/L	10.007	ppb	07:52:19
2	Sc RADIAL	23970.6	23970.6	101	%			07:50:39
2	Al 396.153Radial†	-7.6	100.5	210.81	µg/L	210.81	ppb	07:50:39
2	Ca 317.933Radial†	429.4	342.9	216.08	µg/L	216.08	ppb	07:50:59
2	Fe 238.204 Radial†	68.5	34.8	107.86	µg/L	107.86	ppb	07:50:59
2	K 766.490 Radial†	829.2	102.0	139.70	µg/L	139.70	ppb	07:50:39
2	Mg 279.077 IEC†	57.8	54.2	349.09	µg/L	349.09	ppb	07:50:59
2	Na 589.592 Radial†	155.7	202.8	282.02	µg/L	282.02	ppb	07:50:39
2	Sr 421.552†	444.2	413.1	4.7688	µg/L	4.7688	ppb	07:50:39
2	Sc 361.383	1333484.3	1333484.3	103.07	%			07:52:21
2	Y 371.029	785008.2	785008.2	102.78	%			07:52:21
2	Ag 328.068†	1551.6	830.1	5.5175	µg/L	5.5175	ppb	07:52:23
2	As 188.979†	11.8	15.1	28.551	µg/L	28.551	ppb	07:52:43
2	B 249.677†	4632.7	4217.2	49.361	µg/L	49.361	ppb	07:52:23
2	Ba 233.527†	283.8	363.1	5.0228	µg/L	5.0228	ppb	07:52:43
2	Be 313.107†	6948.7	14669.4	6.1976	µg/L	6.1976	ppb	07:52:23
2	Cd 226.502†	269.9	366.7	5.4620	µg/L	5.4620	ppb	07:52:43
2	Co 228.616†	81.0	180.0	5.1423	µg/L	5.1423	ppb	07:52:43
2	Cr 267.716†	407.6	282.0	5.0392	µg/L	5.0392	ppb	07:52:43
2	Cu 324.752†	5881.4	1528.7	10.365	µg/L	10.365	ppb	07:52:23
2	Mn 257.610†	3911.6	3602.7	10.351	µg/L	10.351	ppb	07:52:43
2	Mo 202.031†	89.2	98.2	10.979	µg/L	10.979	ppb	07:52:43
2	Ni 231.604†	127.2	182.4	5.2313	µg/L	5.2313	ppb	07:52:43
2	P 214.914†	83.3	145.4	148.14	µg/L	148.14	ppb	07:52:43
2	Pb 220.353†	176.0	56.5	11.759	µg/L	11.759	ppb	07:52:43

2	S 181.975 Axial†	64.7	34.7	109.07 µg/L	109.07 ppb	07:52:43
2	Sb 206.836†	14.5	9.5	5.9722 µg/L	5.9722 ppb	07:52:43
2	Se 196.026†	38.6	25.7	33.4 µg/L	33.4 ppb	07:52:43
2	SiO2†	3314.7	1278.3	231.09 µg/L	231.09 ppb	07:52:23
2	Si 251.611†	4221.2	3702.4	106.49 µg/L	106.49 ppb	07:52:23
2	Sn 189.927†	30.4	28.8	11.498 µg/L	11.498 ppb	07:52:43
2	Ti 334.940†	5071.0	3370.9	6.2008 µg/L	6.2008 ppb	07:52:23
2	Tl 190.801†	10.5	28.2	33.860 µg/L	33.860 ppb	07:52:43
2	U 367.007†	500.7	193.0	53.944 µg/L	53.944 ppb	07:52:23
2	V 292.402†	1177.7	839.8	6.0484 µg/L	6.0484 ppb	07:52:23
2	Zn 213.857†	1443.8	850.4	10.450 µg/L	10.450 ppb	07:52:43
3	Sc RADIAL	23615.7	23615.7	99.5 %		07:51:19
3	Al 396.153Radial†	0.7	108.7	228.14 µg/L	228.14 ppb	07:51:19
3	Ca 317.933Radial†	427.2	347.0	218.68 µg/L	218.68 ppb	07:51:39
3	Fe 238.204 Radial†	69.5	36.8	113.97 µg/L	113.97 ppb	07:51:39
3	K 766.490 Radial†	838.0	123.2	168.68 µg/L	168.68 ppb	07:51:19
3	Mg 279.077 IEC†	52.9	50.0	322.43 µg/L	322.43 ppb	07:51:39
3	Na 589.592 Radial†	172.7	222.3	309.05 µg/L	309.05 ppb	07:51:19
3	Sr 421.552†	464.3	440.0	5.0788 µg/L	5.0788 ppb	07:51:19
3	Sc 361.383	1319833.6	1319833.6	102.02 %		07:52:45
3	Y 371.029	777086.6	777086.6	101.75 %		07:52:45
3	Ag 328.068†	1532.0	826.4	5.4843 µg/L	5.4843 ppb	07:52:47
3	As 188.979†	18.3	21.6	40.747 µg/L	40.747 ppb	07:53:07
3	B 249.677†	4563.1	4195.5	49.073 µg/L	49.073 ppb	07:52:47
3	Ba 233.527†	298.7	380.4	5.2587 µg/L	5.2587 ppb	07:53:07
3	Be 313.107†	3897.6	11748.4	4.9635 µg/L	4.9635 ppb	07:52:47
3	Cd 226.502†	259.8	359.4	5.3530 µg/L	5.3530 ppb	07:53:07
3	Co 228.616†	111.7	210.9	6.0268 µg/L	6.0268 ppb	07:53:07
3	Cr 267.716†	425.6	303.7	5.4267 µg/L	5.4267 ppb	07:53:07
3	Cu 324.752†	5821.5	1529.0	10.371 µg/L	10.371 ppb	07:52:47
3	Mn 257.610†	3931.3	3661.3	10.520 µg/L	10.520 ppb	07:53:07
3	Mo 202.031†	89.2	99.1	11.081 µg/L	11.081 ppb	07:53:07
3	Ni 231.604†	137.5	193.8	5.5587 µg/L	5.5587 ppb	07:53:07
3	P 214.914†	73.6	136.8	139.33 µg/L	139.33 ppb	07:53:07
3	Pb 220.353†	140.3	23.3	4.8296 µg/L	4.8296 ppb	07:53:07
3	S 181.975 Axial†	62.0	32.7	102.84 µg/L	102.84 ppb	07:53:07
3	Sb 206.836†	16.1	11.3	7.0528 µg/L	7.0528 ppb	07:53:07
3	Se 196.026†	28.6	16.2	21.1 µg/L	21.1 ppb	07:53:07
3	SiO2†	3261.9	1259.7	227.75 µg/L	227.75 ppb	07:52:47
3	Si 251.611†	3924.2	3453.6	99.327 µg/L	99.327 ppb	07:52:47
3	Sn 189.927†	28.6	27.3	10.926 µg/L	10.926 ppb	07:53:07
3	Ti 334.940†	4346.5	2711.6	4.9812 µg/L	4.9812 ppb	07:52:47
3	Tl 190.801†	4.5	22.4	26.860 µg/L	26.860 ppb	07:53:07
3	U 367.007†	515.3	212.4	59.384 µg/L	59.384 ppb	07:52:47
3	V 292.402†	978.0	655.9	4.7718 µg/L	4.7718 ppb	07:52:47
3	Zn 213.857†	1444.8	866.0	10.638 µg/L	10.638 ppb	07:53:07

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1336215.0	103.29	%	1.384				1.34%
Sc RADIAL	23789.1	100	%	0.7				0.75%
Y 371.029	786791.1	103.02	%	1.402				1.36%
Ag 328.068†	813.0	5.3970	µg/L	0.18063	5.3970	ppb	0.18063	3.35%
QC value within limits for Ag 328.068 Recovery = 107.94%								
Al 396.153Radial†	106.1	222.59	µg/L	10.209	222.59	ppb	10.209	4.59%
QC value within limits for Al 396.153Radial Recovery = 111.30%								
As 188.979†	18.3	34.554	µg/L	6.1000	34.554	ppb	6.1000	17.65%
QC value within limits for As 188.979 Recovery = 115.18%								
B 249.677†	4193.4	49.081	µg/L	0.2768	49.081	ppb	0.2768	0.56%
QC value within limits for B 249.677 Recovery = 98.16%								
Ba 233.527†	368.2	5.0915	µg/L	0.14549	5.0915	ppb	0.14549	2.86%
QC value within limits for Ba 233.527 Recovery = 101.83%								
Be 313.107†	12754.6	5.3886	µg/L	0.70092	5.3886	ppb	0.70092	13.01%
QC value within limits for Be 313.107 Recovery = 107.77%								
Ca 317.933Radial†	346.6	218.42	µg/L	2.216	218.42	ppb	2.216	1.01%
QC value within limits for Ca 317.933Radial Recovery = 109.21%								
Cd 226.502†	361.8	5.3906	µg/L	0.06189	5.3906	ppb	0.06189	1.15%
QC value within limits for Cd 226.502 Recovery = 107.81%								
Co 228.616†	193.1	5.5182	µg/L	0.45691	5.5182	ppb	0.45691	8.28%

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   QC value within limits for Co 228.616  Recovery = 110.36%
Cr 267.716†              291.9      5.2140 µg/L       0.19651      5.2140 ppb        0.19651   3.77%
   QC value within limits for Cr 267.716  Recovery = 104.28%
Cu 324.752†             1485.1      10.073 µg/L        0.5111      10.073 ppb         0.5111   5.07%
   QC value within limits for Cu 324.752  Recovery = 100.73%
Fe 238.204 Radial†        33.9      104.86 µg/L        10.917      104.86 ppb         10.917  10.41%
   QC value within limits for Fe 238.204 Radial  Recovery = 104.86%
K 766.490 Radial†        122.4      167.58 µg/L        27.349      167.58 ppb         27.349  16.32%
   QC value within limits for K 766.490 Radial  Recovery = 111.72%
Mg 279.077 IEC†           53.8      346.61 µg/L        23.039      346.61 ppb         23.039   6.65%
   QC value within limits for Mg 279.077 IEC  Recovery = 115.54%
Mn 257.610†             3597.5      10.336 µg/L        0.1924      10.336 ppb         0.1924   1.86%
   QC value within limits for Mn 257.610  Recovery = 103.36%
Mo 202.031†               95.5      10.682 µg/L        0.6039      10.682 ppb         0.6039   5.65%
   QC value within limits for Mo 202.031  Recovery = 106.82%
Na 589.592 Radial†       210.4      292.56 µg/L        14.465      292.56 ppb         14.465   4.94%
   QC value within limits for Na 589.592 Radial  Recovery = 97.52%
Ni 231.604†              188.9      5.4188 µg/L       0.16886      5.4188 ppb        0.16886   3.12%
   QC value within limits for Ni 231.604  Recovery = 108.38%
P 214.914†               138.3      140.86 µg/L         6.652      140.86 ppb          6.652   4.72%
   QC value within limits for P 214.914  Recovery = 93.91%
Pb 220.353†               38.5      7.9947 µg/L       3.50356      7.9947 ppb        3.50356  43.82%
   QC value within limits for Pb 220.353  Recovery = 79.95%
S 181.975 Axial†          33.0      103.77 µg/L         4.906      103.77 ppb          4.906   4.73%
   QC value within limits for S 181.975 Axial  Recovery = 103.77%
Sb 206.836†               11.2      7.0008 µg/L       1.00353      7.0008 ppb        1.00353  14.33%
   QC value within limits for Sb 206.836  Recovery = 70.01%
Se 196.026†               20.1        26.2 µg/L          6.44        26.2 ppb           6.44  24.59%
   QC value within limits for Se 196.026  Recovery = 87.27%
SiO2†                   1248.9      225.80 µg/L         6.499      225.80 ppb          6.499   2.88%
   QC value within limits for SiO2  Recovery = 106.01%
Si 251.611†             3524.6      101.38 µg/L         4.461      101.38 ppb          4.461   4.40%
   QC value within limits for Si 251.611  Recovery = 101.38%
Sn 189.927†               28.8      11.497 µg/L        0.5708      11.497 ppb         0.5708   4.97%
   QC value within limits for Sn 189.927  Recovery = 114.97%
Sr 421.552†              430.6      4.9705 µg/L       0.17485      4.9705 ppb        0.17485   3.52%
   QC value within limits for Sr 421.552  Recovery = 99.41%
Ti 334.940†             2959.4      5.4390 µg/L       0.66425      5.4390 ppb        0.66425  12.21%
   QC value within limits for Ti 334.940  Recovery = 108.78%
Tl 190.801†               23.7      28.476 µg/L        4.7845      28.476 ppb         4.7845  16.80%
   QC value greater than the upper limit for Tl 190.801  Recovery = 142.38%
U 367.007†               209.5      58.625 µg/L        4.3515      58.625 ppb         4.3515   7.42%
   QC value within limits for U 367.007  Recovery = 117.25%
V 292.402†               747.9      5.4062 µg/L       0.63831      5.4062 ppb        0.63831  11.81%
   QC value within limits for V 292.402  Recovery = 108.12%
Zn 213.857†              843.7      10.365 µg/L        0.3239      10.365 ppb         0.3239   3.12%
   QC value within limits for Zn 213.857  Recovery = 103.65%
QC Failed.  Continue with analysis.
```

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

Autosampler Location: 8
Date Collected: 11/6/2013 07:53:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23649.2	23649.2	99.6	%			07:54:05
1	Al 396.153Radial†	-99.9	7.7	16.223	µg/L	16.223	ppb	07:54:05
1	Ca 317.933Radial†	83.1	1.0	0.5971	µg/L	0.5971	ppb	07:54:25
1	Fe 238.204 Radial†	30.7	-2.2	-6.8459	µg/L	-6.8459	ppb	07:54:25
1	K 766.490 Radial†	739.2	22.8	31.233	µg/L	31.233	ppb	07:54:05
1	Mg 279.077 IEC†	10.4	7.3	47.105	µg/L	47.105	ppb	07:54:25
1	Na 589.592 Radial†	-41.0	7.5	10.472	µg/L	10.472	ppb	07:54:05
1	Sr 421.552†	20.8	-6.0	-0.0689	µg/L	-0.0689	ppb	07:54:05
1	Sc 361.383	1319492.8	1319492.8	101.99	%			07:56:03
1	Y 371.029	777548.3	777548.3	101.81	%			07:56:03
1	Ag 328.068†	626.9	-60.6	-0.3932	µg/L	-0.3932	ppb	07:56:05
1	As 188.979†	-5.8	-2.0	-3.8021	µg/L	-3.8021	ppb	07:56:25
1	B 249.677†	345.7	61.7	0.7416	µg/L	0.7416	ppb	07:56:05
1	Ba 233.527†	-79.3	9.9	0.1397	µg/L	0.1397	ppb	07:56:25
1	Be 313.107†	-8404.9	-312.6	-0.1321	µg/L	-0.1321	ppb	07:56:05
1	Cd 226.502†	-118.2	-11.1	-0.1652	µg/L	-0.1652	ppb	07:56:25
1	Co 228.616†	-104.9	-1.4	-0.0399	µg/L	-0.0399	ppb	07:56:25
1	Cr 267.716†	139.0	22.9	0.4172	µg/L	0.4172	ppb	07:56:25
1	Cu 324.752†	4303.1	41.7	0.2760	µg/L	0.2760	ppb	07:56:05
1	Mn 257.610†	211.1	14.8	0.0407	µg/L	0.0407	ppb	07:56:25
1	Mo 202.031†	-1.3	10.5	1.1688	µg/L	1.1688	ppb	07:56:25
1	Ni 231.604†	-59.4	0.7	0.0210	µg/L	0.0210	ppb	07:56:25
1	P 214.914†	-65.9	0.1	0.0620	µg/L	0.0620	ppb	07:56:25
1	Pb 220.353†	104.6	-11.7	-2.4294	µg/L	-2.4294	ppb	07:56:25
1	S 181.975 Axial†	28.7	0.1	0.2532	µg/L	0.2532	ppb	07:56:25
1	Sb 206.836†	9.6	4.9	3.0628	µg/L	3.0628	ppb	07:56:25
1	Se 196.026†	6.8	-5.1	-6.68	µg/L	-6.68	ppb	07:56:25
1	SiO2†	1951.0	-24.7	-4.4574	µg/L	-4.4574	ppb	07:56:05
1	Si 251.611†	414.5	13.5	0.3723	µg/L	0.3723	ppb	07:56:25
1	Sn 189.927†	0.6	-0.2	-0.0766	µg/L	-0.0766	ppb	07:56:25
1	Ti 334.940†	1574.3	-5.4	-0.0059	µg/L	-0.0059	ppb	07:56:05
1	Tl 190.801†	-12.0	6.2	7.5120	µg/L	7.5120	ppb	07:56:25
1	U 367.007†	266.4	-31.6	-8.9001	µg/L	-8.9001	ppb	07:56:05
1	V 292.402†	452.2	140.6	0.9899	µg/L	0.9899	ppb	07:56:05
1	Zn 213.857†	564.3	3.0	0.0368	µg/L	0.0368	ppb	07:56:25
2	Sc RADIAL	23610.7	23610.7	99.4	%			07:54:45
2	Al 396.153Radial†	-110.7	-3.4	-7.0389	µg/L	-7.0389	ppb	07:54:45
2	Ca 317.933Radial†	89.0	7.1	4.4388	µg/L	4.4388	ppb	07:55:05
2	Fe 238.204 Radial†	31.2	-1.6	-4.9988	µg/L	-4.9988	ppb	07:55:05
2	K 766.490 Radial†	755.7	40.6	55.564	µg/L	55.564	ppb	07:54:45
2	Mg 279.077 IEC†	6.8	3.7	23.670	µg/L	23.670	ppb	07:55:05
2	Na 589.592 Radial†	-54.1	-5.8	-8.0696	µg/L	-8.0696	ppb	07:54:45
2	Sr 421.552†	6.3	-20.5	-0.2371	µg/L	-0.2371	ppb	07:54:45
2	Sc 361.383	1253762.1	1253762.1	96.913	%			07:56:27
2	Y 371.029	738403.9	738403.9	96.681	%			07:56:27
2	Ag 328.068†	654.7	0.3	0.0016	µg/L	0.0016	ppb	07:56:29
2	As 188.979†	-4.8	-1.3	-2.3932	µg/L	-2.3932	ppb	07:56:49
2	B 249.677†	462.1	199.6	2.3542	µg/L	2.3542	ppb	07:56:29
2	Ba 233.527†	-92.7	-8.0	-0.1092	µg/L	-0.1092	ppb	07:56:49
2	Be 313.107†	-8004.3	-331.3	-0.1400	µg/L	-0.1400	ppb	07:56:29
2	Cd 226.502†	-97.0	4.7	0.0714	µg/L	0.0714	ppb	07:56:49
2	Co 228.616†	-92.8	5.7	0.1623	µg/L	0.1623	ppb	07:56:49
2	Cr 267.716†	120.9	11.3	0.2017	µg/L	0.2017	ppb	07:56:49
2	Cu 324.752†	3998.8	-51.1	-0.3451	µg/L	-0.3451	ppb	07:56:29
2	Mn 257.610†	228.7	43.8	0.1249	µg/L	0.1249	ppb	07:56:49
2	Mo 202.031†	-3.7	7.9	0.8831	µg/L	0.8831	ppb	07:56:49
2	Ni 231.604†	-42.6	15.0	0.4303	µg/L	0.4303	ppb	07:56:49
2	P 214.914†	-78.7	-16.5	-16.853	µg/L	-16.853	ppb	07:56:49
2	Pb 220.353†	111.7	1.1	0.2226	µg/L	0.2226	ppb	07:56:49

2	S 181.975 Axial†	28.4	1.2	3.8696	µg/L	3.8696	ppb	07:56:49
2	Sb 206.836†	-1.1	-5.7	-3.5505	µg/L	-3.5505	ppb	07:56:49
2	Se 196.026†	12.2	0.8	1.02	µg/L	1.02	ppb	07:56:49
2	SiO2†	1966.1	91.2	16.480	µg/L	16.480	ppb	07:56:29
2	Si 251.611†	431.3	52.1	1.4889	µg/L	1.4889	ppb	07:56:49
2	Sn 189.927†	2.1	1.5	0.5890	µg/L	0.5890	ppb	07:56:49
2	Ti 334.940†	1536.4	36.5	0.0664	µg/L	0.0664	ppb	07:56:29
2	Tl 190.801†	-14.2	3.3	3.9768	µg/L	3.9768	ppb	07:56:49
2	U 367.007†	290.3	6.8	1.9394	µg/L	1.9394	ppb	07:56:29
2	V 292.402†	317.0	24.4	0.1815	µg/L	0.1815	ppb	07:56:29
2	Zn 213.857†	565.6	33.4	0.4102	µg/L	0.4102	ppb	07:56:49
3	Sc RADIAL	23613.1	23613.1	99.5	%			07:55:25
3	Al 396.153Radial†	-95.0	12.4	26.101	µg/L	26.101	ppb	07:55:25
3	Ca 317.933Radial†	93.5	11.6	7.3166	µg/L	7.3166	ppb	07:55:45
3	Fe 238.204 Radial†	32.2	-0.6	-1.8443	µg/L	-1.8443	ppb	07:55:45
3	K 766.490 Radial†	724.0	8.7	11.892	µg/L	11.892	ppb	07:55:25
3	Mg 279.077 IEC†	0.8	-2.3	-14.769	µg/L	-14.769	ppb	07:55:45
3	Na 589.592 Radial†	-58.9	-10.6	-14.720	µg/L	-14.720	ppb	07:55:25
3	Sr 421.552†	20.2	-6.5	-0.0750	µg/L	-0.0750	ppb	07:55:25
3	Sc 361.383	1348673.6	1348673.6	104.25	%			07:56:51
3	Y 371.029	794334.9	794334.9	104.00	%			07:56:51
3	Ag 328.068†	785.8	78.6	0.5182	µg/L	0.5182	ppb	07:56:53
3	As 188.979†	-4.3	-0.5	-0.9477	µg/L	-0.9477	ppb	07:57:13
3	B 249.677†	398.6	105.1	1.2436	µg/L	1.2436	ppb	07:56:53
3	Ba 233.527†	-98.6	-6.9	-0.0947	µg/L	-0.0947	ppb	07:57:13
3	Be 313.107†	-8382.2	-112.6	-0.0476	µg/L	-0.0476	ppb	07:56:53
3	Cd 226.502†	-105.9	3.2	0.0472	µg/L	0.0472	ppb	07:57:13
3	Co 228.616†	-103.5	2.1	0.0614	µg/L	0.0614	ppb	07:57:13
3	Cr 267.716†	136.6	17.6	0.3109	µg/L	0.3109	ppb	07:57:13
3	Cu 324.752†	4327.5	-26.2	-0.1735	µg/L	-0.1735	ppb	07:56:53
3	Mn 257.610†	229.3	27.8	0.0803	µg/L	0.0803	ppb	07:57:13
3	Mo 202.031†	-4.9	7.0	0.7765	µg/L	0.7765	ppb	07:57:13
3	Ni 231.604†	-72.8	-10.8	-0.3095	µg/L	-0.3095	ppb	07:57:13
3	P 214.914†	-77.3	-9.4	-9.6279	µg/L	-9.6279	ppb	07:57:13
3	Pb 220.353†	102.4	-16.0	-3.3452	µg/L	-3.3452	ppb	07:57:13
3	S 181.975 Axial†	30.3	1.0	2.9811	µg/L	2.9811	ppb	07:57:13
3	Sb 206.836†	6.1	1.3	0.8126	µg/L	0.8126	ppb	07:57:13
3	Se 196.026†	12.5	0.2	0.212	µg/L	0.212	ppb	07:57:13
3	SiO2†	1999.5	-19.5	-3.5220	µg/L	-3.5220	ppb	07:56:53
3	Si 251.611†	433.8	23.2	0.6574	µg/L	0.6574	ppb	07:57:13
3	Sn 189.927†	1.2	0.4	0.1460	µg/L	0.1460	ppb	07:57:13
3	Ti 334.940†	1570.9	-42.0	-0.0814	µg/L	-0.0814	ppb	07:56:53
3	Tl 190.801†	-10.9	7.6	9.1155	µg/L	9.1155	ppb	07:57:13
3	U 367.007†	335.1	28.7	8.1290	µg/L	8.1290	ppb	07:56:53
3	V 292.402†	315.5	-0.1	0.0137	µg/L	0.0137	ppb	07:56:53
3	Zn 213.857†	586.7	12.5	0.1572	µg/L	0.1572	ppb	07:57:13

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1307309.5	101.05	%	3.758				3.72%
Sc RADIAL	23624.3	99.5	%	0.09				0.09%
Y 371.029	770095.7	100.83	%	3.758				3.73%
Ag 328.068†	6.1	0.0422	µg/L	0.45705	0.0422	ppb	0.45705	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	5.6	11.762	µg/L	17.0146	11.762	ppb	17.0146	144.66%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.3	-2.3810	µg/L	1.42723	-2.3810	ppb	1.42723	59.94%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	122.1	1.4465	µg/L	0.82526	1.4465	ppb	0.82526	57.05%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-1.6	-0.0214	µg/L	0.13970	-0.0214	ppb	0.13970	652.75%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-252.2	-0.1065	µg/L	0.05122	-0.1065	ppb	0.05122	48.08%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.5	4.1175	µg/L	3.37121	4.1175	ppb	3.37121	81.87%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-1.1	-0.0155	µg/L	0.13021	-0.0155	ppb	0.13021	838.17%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	2.1	0.0613	µg/L	0.10109	0.0613	ppb	0.10109	164.95%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               17.2      0.3099 µg/L       0.10777      0.3099 ppb        0.10777  34.77%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -11.9     -0.0809 µg/L       0.32077     -0.0809 ppb        0.32077 396.68%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -1.5     -4.5630 µg/L       2.52909     -4.5630 ppb        2.52909  55.43%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         24.0      32.896 µg/L       21.8837      32.896 ppb        21.8837  66.52%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            2.9      18.669 µg/L       31.2384      18.669 ppb        31.2384 167.33%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               28.8      0.0820 µg/L       0.04215      0.0820 ppb        0.04215  51.42%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                8.4      0.9428 µg/L       0.20282      0.9428 ppb        0.20282  21.51%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -3.0     -4.1059 µg/L      13.05549     -4.1059 ppb       13.05549 317.97%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                1.6      0.0473 µg/L       0.37059      0.0473 ppb        0.37059 783.89%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -8.6     -8.8063 µg/L       8.48738     -8.8063 ppb        8.48738  96.38%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -8.9     -1.8507 µg/L       1.85298     -1.8507 ppb        1.85298 100.12%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           0.8      2.3680 µg/L       1.88454      2.3680 ppb        1.88454  79.58%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                0.2      0.1083 µg/L       3.36244      0.1083 ppb        3.36244 >999.9%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -1.4       -1.82 µg/L         4.229       -1.82 ppb          4.229 232.97%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     15.6      2.8336 µg/L      11.82750      2.8336 ppb       11.82750 417.41%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               29.6      0.8395 µg/L       0.58016      0.8395 ppb        0.58016  69.11%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                0.5      0.2195 µg/L       0.33885      0.2195 ppb        0.33885 154.38%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              -11.0     -0.1270 µg/L       0.09541     -0.1270 ppb        0.09541  75.14%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -3.6     -0.0070 µg/L       0.07387     -0.0070 ppb        0.07387 >999.9%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                5.7      6.8681 µg/L       2.62914      6.8681 ppb        2.62914  38.28%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 1.3      0.3895 µg/L       8.61971      0.3895 ppb        8.61971 >999.9%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                54.9      0.3950 µg/L       0.52197      0.3950 ppb        0.52197 132.14%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               16.3      0.2014 µg/L       0.19057      0.2014 ppb        0.19057  94.62%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 07:57:21**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23705.7	23705.7	99.8	%			07:57:51
1	Al 396.153Radial†	2275.2	2386.7	5005.7	µg/L	5005.7	ppb	07:58:11
1	Ca 317.933Radial†	8063.6	7993.7	5037.7	µg/L	5037.7	ppb	07:58:11
1	Fe 238.204 Radial†	1678.7	1648.3	5094.9	µg/L	5094.9	ppb	07:58:11
1	K 766.490 Radial†	4420.3	3707.9	5082.4	µg/L	5082.4	ppb	07:57:51
1	Mg 279.077 IEC†	802.3	800.4	5158.1	µg/L	5158.1	ppb	07:58:11
1	Na 589.592 Radial†	7338.7	7398.8	10288	µg/L	10288	ppb	07:57:51
1	Sr 421.552†	42729.2	42769.2	493.81	µg/L	493.81	ppb	07:57:51
1	Sc 361.383	1365107.2	1365107.2	105.52	%			07:59:13
1	Y 371.029	787601.0	787601.0	103.12	%			07:59:13
1	Ag 328.068†	79136.2	74321.7	497.89	µg/L	497.89	ppb	07:59:15
1	As 188.979†	278.1	267.2	509.09	µg/L	509.09	ppb	07:59:35
1	B 249.677†	43934.4	41359.2	468.95	µg/L	468.95	ppb	07:59:15
1	Ba 233.527†	37411.1	35541.9	491.52	µg/L	491.52	ppb	07:59:15
1	Be 313.107†	1226590.4	1170361.1	494.46	µg/L	494.46	ppb	07:59:13
1	Cd 226.502†	34680.5	32971.3	491.79	µg/L	491.79	ppb	07:59:15
1	Co 228.616†	18222.0	17370.3	495.85	µg/L	495.85	ppb	07:59:15
1	Cr 267.716†	28824.4	27203.3	489.46	µg/L	489.46	ppb	07:59:15
1	Cu 324.752†	81010.4	72595.8	491.39	µg/L	491.39	ppb	07:59:15
1	Mn 257.610†	181390.9	171711.0	493.72	µg/L	493.72	ppb	07:59:15
1	Mo 202.031†	4652.6	4420.9	493.91	µg/L	493.91	ppb	07:59:35
1	Ni 231.604†	17980.9	17099.4	490.54	µg/L	490.54	ppb	07:59:15
1	P 214.914†	2414.5	2352.9	2386.5	µg/L	2386.5	ppb	07:59:35
1	Pb 220.353†	2634.3	2382.3	497.43	µg/L	497.43	ppb	07:59:35
1	S 181.975 Axial†	360.2	313.3	982.17	µg/L	982.17	ppb	07:59:35
1	Sb 206.836†	817.9	770.6	479.86	µg/L	479.86	ppb	07:59:35
1	Se 196.026†	408.8	375.6	491	µg/L	491	ppb	07:59:35
1	SiO2†	32088.3	28472.3	5154.8	µg/L	5154.8	ppb	07:59:15
1	Si 251.611†	88903.0	83859.9	2409.1	µg/L	2409.1	ppb	07:59:15
1	Sn 189.927†	1280.4	1212.7	484.45	µg/L	484.45	ppb	07:59:35
1	Ti 334.940†	281871.6	265579.3	490.03	µg/L	490.03	ppb	07:59:15
1	Tl 190.801†	424.7	420.5	500.95	µg/L	500.95	ppb	07:59:35
1	U 367.007†	2202.1	1794.2	477.51	µg/L	477.51	ppb	07:59:15
1	V 292.402†	73913.0	69744.2	494.47	µg/L	494.47	ppb	07:59:15
1	Zn 213.857†	42662.1	39880.4	488.95	µg/L	488.95	ppb	07:59:15
2	Sc RADIAL	23586.2	23586.2	99.3	%			07:58:13
2	Al 396.153Radial†	2260.2	2383.2	4998.4	µg/L	4998.4	ppb	07:58:33
2	Ca 317.933Radial†	8121.5	8093.0	5100.3	µg/L	5100.3	ppb	07:58:33
2	Fe 238.204 Radial†	1682.4	1660.6	5133.1	µg/L	5133.1	ppb	07:58:33
2	K 766.490 Radial†	4371.8	3681.5	5046.4	µg/L	5046.4	ppb	07:58:13
2	Mg 279.077 IEC†	811.7	814.0	5245.8	µg/L	5245.8	ppb	07:58:33
2	Na 589.592 Radial†	7117.9	7213.8	10030	µg/L	10030	ppb	07:58:13
2	Sr 421.552†	42364.6	42619.0	492.08	µg/L	492.08	ppb	07:58:13
2	Sc 361.383	1355089.8	1355089.8	104.74	%			07:59:37
2	Y 371.029	781827.5	781827.5	102.37	%			07:59:37
2	Ag 328.068†	77914.3	73709.6	493.79	µg/L	493.79	ppb	07:59:39
2	As 188.979†	277.6	268.6	511.81	µg/L	511.81	ppb	08:00:00
2	B 249.677†	43216.0	40981.1	464.34	µg/L	464.34	ppb	07:59:39
2	Ba 233.527†	36735.0	35158.6	486.23	µg/L	486.23	ppb	07:59:39
2	Be 313.107†	1207585.2	1160810.0	490.43	µg/L	490.43	ppb	07:59:37
2	Cd 226.502†	34182.8	32739.1	488.32	µg/L	488.32	ppb	07:59:39
2	Co 228.616†	17873.4	17165.2	489.99	µg/L	489.99	ppb	07:59:39
2	Cr 267.716†	28348.4	26950.8	484.92	µg/L	484.92	ppb	07:59:39
2	Cu 324.752†	80145.0	72337.2	489.64	µg/L	489.64	ppb	07:59:39
2	Mn 257.610†	179091.2	170786.2	491.06	µg/L	491.06	ppb	07:59:39
2	Mo 202.031†	4622.7	4425.0	494.38	µg/L	494.38	ppb	08:00:00
2	Ni 231.604†	17825.2	17076.7	489.89	µg/L	489.89	ppb	07:59:39
2	P 214.914†	2388.0	2344.5	2377.8	µg/L	2377.8	ppb	08:00:00
2	Pb 220.353†	2624.1	2390.9	499.24	µg/L	499.24	ppb	08:00:00

2	S 181.975 Axial†	357.2	313.0	981.10 µg/L	981.10 ppb	08:00:00
2	Sb 206.836†	813.8	772.4	481.03 µg/L	481.03 ppb	08:00:00
2	Se 196.026†	414.8	384.2	502 µg/L	502 ppb	08:00:00
2	SiO2†	31804.3	28426.1	5146.3 µg/L	5146.3 ppb	07:59:39
2	Si 251.611†	87909.0	83533.8	2399.7 µg/L	2399.7 ppb	07:59:39
2	Sn 189.927†	1270.5	1212.2	484.26 µg/L	484.26 ppb	08:00:00
2	Ti 334.940†	278381.4	264222.0	487.53 µg/L	487.53 ppb	07:59:39
2	Tl 190.801†	426.6	425.2	506.72 µg/L	506.72 ppb	08:00:00
2	U 367.007†	2164.5	1773.7	471.52 µg/L	471.52 ppb	07:59:39
2	V 292.402†	72831.3	69229.3	490.88 µg/L	490.88 ppb	07:59:39
2	Zn 213.857†	41981.5	39529.5	484.61 µg/L	484.61 ppb	07:59:39
3	Sc RADIAL	24154.5	24154.5	102 %		07:58:35
3	Al 396.153Radial†	2204.1	2274.5	4770.1 µg/L	4770.1 ppb	07:58:55
3	Ca 317.933Radial†	7805.3	7589.8	4783.2 µg/L	4783.2 ppb	07:58:55
3	Fe 238.204 Radial†	1612.9	1552.4	4797.6 µg/L	4797.6 ppb	07:58:55
3	K 766.490 Radial†	4346.4	3553.0	4870.5 µg/L	4870.5 ppb	07:58:35
3	Mg 279.077 IEC†	781.9	765.4	4932.9 µg/L	4932.9 ppb	07:58:55
3	Na 589.592 Radial†	7265.7	7190.5	9997.9 µg/L	9997.9 ppb	07:58:35
3	Sr 421.552†	43219.7	42456.2	490.20 µg/L	490.20 ppb	07:58:35
3	Sc 361.383	1344548.3	1344548.3	103.93 %		08:00:02
3	Y 371.029	776245.0	776245.0	101.64 %		08:00:02
3	Ag 328.068†	78060.0	74433.0	498.64 µg/L	498.64 ppb	08:00:04
3	As 188.979†	275.7	268.9	512.40 µg/L	512.40 ppb	08:00:24
3	B 249.677†	43358.6	41441.7	471.13 µg/L	471.13 ppb	08:00:04
3	Ba 233.527†	36823.8	35519.0	491.22 µg/L	491.22 ppb	08:00:04
3	Be 313.107†	1197597.7	1160239.1	490.18 µg/L	490.18 ppb	08:00:02
3	Cd 226.502†	34180.7	32992.9	492.15 µg/L	492.15 ppb	08:00:04
3	Co 228.616†	17875.6	17301.1	493.87 µg/L	493.87 ppb	08:00:04
3	Cr 267.716†	28443.9	27254.8	490.37 µg/L	490.37 ppb	08:00:04
3	Cu 324.752†	80047.5	72843.3	493.02 µg/L	493.02 ppb	08:00:04
3	Mn 257.610†	179315.7	172342.8	495.54 µg/L	495.54 ppb	08:00:04
3	Mo 202.031†	4610.3	4447.7	496.88 µg/L	496.88 ppb	08:00:24
3	Ni 231.604†	17853.2	17237.1	494.49 µg/L	494.49 ppb	08:00:04
3	P 214.914†	2392.6	2366.8	2401.0 µg/L	2401.0 ppb	08:00:24
3	Pb 220.353†	2620.1	2406.8	502.55 µg/L	502.55 ppb	08:00:24
3	S 181.975 Axial†	362.4	320.6	1005.3 µg/L	1005.3 ppb	08:00:24
3	Sb 206.836†	806.3	771.3	480.28 µg/L	480.28 ppb	08:00:24
3	Se 196.026†	400.6	373.6	488 µg/L	488 ppb	08:00:24
3	SiO2†	31778.7	28639.4	5185.0 µg/L	5185.0 ppb	08:00:04
3	Si 251.611†	87849.0	84134.1	2417.0 µg/L	2417.0 ppb	08:00:04
3	Sn 189.927†	1260.5	1212.1	484.16 µg/L	484.16 ppb	08:00:24
3	Ti 334.940†	278855.8	266762.1	492.20 µg/L	492.20 ppb	08:00:04
3	Tl 190.801†	432.3	434.0	517.19 µg/L	517.19 ppb	08:00:24
3	U 367.007†	2181.6	1806.3	482.53 µg/L	482.53 ppb	08:00:04
3	V 292.402†	73123.0	70055.1	496.63 µg/L	496.63 ppb	08:00:04
3	Zn 213.857†	42225.4	40078.5	491.41 µg/L	491.41 ppb	08:00:04

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1354915.1	104.73	%	0.795				0.76%
Sc RADIAL	23815.5	100	%	1.3				1.26%
Y 371.029	781891.1	102.37	%	0.743				0.73%
Ag 328.068†	74154.8	496.77	µg/L	2.613	496.77	ppb	2.613	0.53%
QC value within limits for Ag 328.068 Recovery = 99.35%								
Al 396.153Radial†	2348.1	4924.7	µg/L	133.98	4924.7	ppb	133.98	2.72%
QC value within limits for Al 396.153Radial Recovery = 98.49%								
As 188.979†	268.2	511.10	µg/L	1.767	511.10	ppb	1.767	0.35%
QC value within limits for As 188.979 Recovery = 102.22%								
B 249.677†	41260.6	468.14	µg/L	3.468	468.14	ppb	3.468	0.74%
QC value within limits for B 249.677 Recovery = 93.63%								
Ba 233.527†	35406.5	489.65	µg/L	2.974	489.65	ppb	2.974	0.61%
QC value within limits for Ba 233.527 Recovery = 97.93%								
Be 313.107†	1163803.4	491.69	µg/L	2.402	491.69	ppb	2.402	0.49%
QC value within limits for Be 313.107 Recovery = 98.34%								
Ca 317.933Radial†	7892.2	4973.7	µg/L	167.96	4973.7	ppb	167.96	3.38%
QC value within limits for Ca 317.933Radial Recovery = 99.47%								
Cd 226.502†	32901.1	490.75	µg/L	2.117	490.75	ppb	2.117	0.43%
QC value within limits for Cd 226.502 Recovery = 98.15%								
Co 228.616†	17278.9	493.24	µg/L	2.979	493.24	ppb	2.979	0.60%

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   QC value within limits for Co 228.616  Recovery = 98.65%
Cr 267.716†            27136.3      488.25 µg/L         2.923      488.25 ppb          2.923   0.60%
   QC value within limits for Cr 267.716  Recovery = 97.65%
Cu 324.752†            72592.1      491.35 µg/L         1.688      491.35 ppb          1.688   0.34%
   QC value within limits for Cu 324.752  Recovery = 98.27%
Fe 238.204 Radial†      1620.4      5008.5 µg/L        183.66      5008.5 ppb         183.66   3.67%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.17%
K 766.490 Radial†       3647.5      4999.8 µg/L        113.36      4999.8 ppb         113.36   2.27%
   QC value within limits for K 766.490 Radial  Recovery = 100.00%
Mg 279.077 IEC†          793.3      5112.3 µg/L        161.41      5112.3 ppb         161.41   3.16%
   QC value within limits for Mg 279.077 IEC  Recovery = 102.25%
Mn 257.610†           171613.3      493.44 µg/L         2.251      493.44 ppb          2.251   0.46%
   QC value within limits for Mn 257.610  Recovery = 98.69%
Mo 202.031†             4431.2      495.06 µg/L         1.598      495.06 ppb          1.598   0.32%
   QC value within limits for Mo 202.031  Recovery = 99.01%
Na 589.592 Radial†      7267.7       10105 µg/L         158.7       10105 ppb          158.7   1.57%
   QC value within limits for Na 589.592 Radial  Recovery = 101.05%
Ni 231.604†            17137.7      491.64 µg/L         2.491      491.64 ppb          2.491   0.51%
   QC value within limits for Ni 231.604  Recovery = 98.33%
P 214.914†              2354.7      2388.4 µg/L         11.69      2388.4 ppb          11.69   0.49%
   QC value within limits for P 214.914  Recovery = 95.54%
Pb 220.353†             2393.3      499.74 µg/L         2.593      499.74 ppb          2.593   0.52%
   QC value within limits for Pb 220.353  Recovery = 99.95%
S 181.975 Axial†         315.6      989.53 µg/L        13.686      989.53 ppb         13.686   1.38%
   QC value within limits for S 181.975 Axial  Recovery = 98.95%
Sb 206.836†              771.4      480.39 µg/L         0.592      480.39 ppb          0.592   0.12%
   QC value within limits for Sb 206.836  Recovery = 96.08%
Se 196.026†              377.8         493 µg/L           7.4         493 ppb            7.4   1.50%
   QC value within limits for Se 196.026  Recovery = 98.67%
SiO2†                  28512.6      5162.0 µg/L         20.33      5162.0 ppb          20.33   0.39%
   QC value within limits for SiO2  Recovery = 96.53%
Si 251.611†            83842.6      2408.6 µg/L          8.62      2408.6 ppb           8.62   0.36%
   QC value within limits for Si 251.611  Recovery = 96.34%
Sn 189.927†             1212.3      484.29 µg/L         0.146      484.29 ppb          0.146   0.03%
   QC value within limits for Sn 189.927  Recovery = 96.86%
Sr 421.552†            42614.8      492.03 µg/L         1.807      492.03 ppb          1.807   0.37%
   QC value within limits for Sr 421.552  Recovery = 98.41%
Ti 334.940†           265521.1      489.92 µg/L         2.336      489.92 ppb          2.336   0.48%
   QC value within limits for Ti 334.940  Recovery = 97.98%
Tl 190.801†              426.6      508.29 µg/L         8.234      508.29 ppb          8.234   1.62%
   QC value within limits for Tl 190.801  Recovery = 101.66%
U 367.007†              1791.4      477.18 µg/L         5.514      477.18 ppb          5.514   1.16%
   QC value within limits for U 367.007  Recovery = 95.44%
V 292.402†             69676.2      493.99 µg/L         2.908      493.99 ppb          2.908   0.59%
   QC value within limits for V 292.402  Recovery = 98.80%
Zn 213.857†            39829.5      488.32 µg/L         3.444      488.32 ppb          3.444   0.71%
   QC value within limits for Zn 213.857  Recovery = 97.66%
All analyte(s) passed QC.
```

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 08:00:32**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23672.5	23672.5	99.7	%			08:01:19
1	Al 396.153Radial†	-101.6	6.1	12.742	µg/L	12.742	ppb	08:01:19
1	Ca 317.933Radial†	86.8	4.6	2.9363	µg/L	2.9363	ppb	08:01:39
1	Fe 238.204 Radial†	32.3	-0.6	-1.8907	µg/L	-1.8907	ppb	08:01:39
1	K 766.490 Radial†	749.9	32.7	44.815	µg/L	44.815	ppb	08:01:19
1	Mg 279.077 IEC†	-1.0	-4.1	-26.663	µg/L	-26.663	ppb	08:01:39
1	Na 589.592 Radial†	-47.8	0.7	1.0424	µg/L	1.0424	ppb	08:01:19
1	Sr 421.552†	28.2	1.4	0.0164	µg/L	0.0164	ppb	08:01:19
1	Sc 361.383	1346323.2	1346323.2	104.07	%			08:03:17
1	Y 371.029	792904.1	792904.1	103.82	%			08:03:17
1	Ag 328.068†	669.9	-31.5	-0.2227	µg/L	-0.2227	ppb	08:03:19
1	As 188.979†	-2.7	1.0	1.9420	µg/L	1.9420	ppb	08:03:39
1	B 249.677†	392.1	99.5	1.1646	µg/L	1.1646	ppb	08:03:19
1	Ba 233.527†	-92.6	-1.3	-0.0188	µg/L	-0.0188	ppb	08:03:39
1	Be 313.107†	-8312.6	-59.7	-0.0252	µg/L	-0.0252	ppb	08:03:19
1	Cd 226.502†	-111.0	-1.9	-0.0276	µg/L	-0.0276	ppb	08:03:39
1	Co 228.616†	-99.7	5.6	0.1621	µg/L	0.1621	ppb	08:03:39
1	Cr 267.716†	130.4	11.8	0.2043	µg/L	0.2043	ppb	08:03:39
1	Cu 324.752†	4301.2	-44.2	-0.2926	µg/L	-0.2926	ppb	08:03:19
1	Mn 257.610†	219.5	18.8	0.0548	µg/L	0.0548	ppb	08:03:39
1	Mo 202.031†	1.1	12.7	1.4172	µg/L	1.4172	ppb	08:03:39
1	Ni 231.604†	-40.4	20.2	0.5800	µg/L	0.5800	ppb	08:03:39
1	P 214.914†	-76.4	-8.8	-8.9549	µg/L	-8.9549	ppb	08:03:39
1	Pb 220.353†	110.6	-7.9	-1.6564	µg/L	-1.6564	ppb	08:03:39
1	S 181.975 Axial†	27.7	-1.5	-4.7050	µg/L	-4.7050	ppb	08:03:39
1	Sb 206.836†	1.4	-3.2	-1.9997	µg/L	-1.9997	ppb	08:03:39
1	Se 196.026†	10.0	-2.2	-2.86	µg/L	-2.86	ppb	08:03:39
1	SiO2†	1895.4	-116.3	-21.010	µg/L	-21.010	ppb	08:03:19
1	Si 251.611†	452.5	41.9	1.1869	µg/L	1.1869	ppb	08:03:39
1	Sn 189.927†	4.2	3.3	1.3231	µg/L	1.3231	ppb	08:03:39
1	Ti 334.940†	1567.9	-42.3	-0.0849	µg/L	-0.0849	ppb	08:03:19
1	Tl 190.801†	-14.4	4.2	5.0527	µg/L	5.0527	ppb	08:03:39
1	U 367.007†	355.5	48.9	13.843	µg/L	13.843	ppb	08:03:19
1	V 292.402†	276.9	-36.7	-0.2303	µg/L	-0.2303	ppb	08:03:19
1	Zn 213.857†	603.5	29.6	0.3636	µg/L	0.3636	ppb	08:03:39
2	Sc RADIAL	23332.8	23332.8	98.3	%			08:02:00
2	Al 396.153Radial†	-90.6	15.8	33.203	µg/L	33.203	ppb	08:02:00
2	Ca 317.933Radial†	86.8	5.9	3.7280	µg/L	3.7280	ppb	08:02:20
2	Fe 238.204 Radial†	29.2	-3.3	-10.300	µg/L	-10.300	ppb	08:02:20
2	K 766.490 Radial†	734.1	27.7	37.913	µg/L	37.913	ppb	08:02:00
2	Mg 279.077 IEC†	3.9	0.8	5.3161	µg/L	5.3161	ppb	08:02:20
2	Na 589.592 Radial†	-53.5	-5.8	-8.1153	µg/L	-8.1153	ppb	08:02:00
2	Sr 421.552†	43.4	17.3	0.2000	µg/L	0.2000	ppb	08:02:00
2	Sc 361.383	1335620.7	1335620.7	103.24	%			08:03:41
2	Y 371.029	786404.6	786404.6	102.97	%			08:03:41
2	Ag 328.068†	704.7	7.4	0.0500	µg/L	0.0500	ppb	08:03:43
2	As 188.979†	-3.6	0.1	0.2835	µg/L	0.2835	ppb	08:04:03
2	B 249.677†	490.3	197.7	2.3618	µg/L	2.3618	ppb	08:03:43
2	Ba 233.527†	-90.6	-0.1	-0.0004	µg/L	-0.0004	ppb	08:04:03
2	Be 313.107†	-8507.3	-312.3	-0.1319	µg/L	-0.1319	ppb	08:03:43
2	Cd 226.502†	-89.7	17.9	0.2685	µg/L	0.2685	ppb	08:04:03
2	Co 228.616†	-68.9	34.7	0.9930	µg/L	0.9930	ppb	08:04:03
2	Cr 267.716†	132.4	14.8	0.2660	µg/L	0.2660	ppb	08:04:03
2	Cu 324.752†	4342.6	29.0	0.1949	µg/L	0.1949	ppb	08:03:43
2	Mn 257.610†	197.3	-1.0	-0.0035	µg/L	-0.0035	ppb	08:04:03
2	Mo 202.031†	-6.9	5.0	0.5548	µg/L	0.5548	ppb	08:04:03
2	Ni 231.604†	-58.4	2.5	0.0711	µg/L	0.0711	ppb	08:04:03
2	P 214.914†	-76.1	-9.0	-9.1747	µg/L	-9.1747	ppb	08:04:03
2	Pb 220.353†	90.6	-26.5	-5.5197	µg/L	-5.5197	ppb	08:04:03

2	S 181.975 Axial†	24.2	-4.7	-14.702	µg/L	-14.702 ppb	08:04:03
2	Sb 206.836†	1.1	-3.5	-2.1758	µg/L	-2.1758 ppb	08:04:03
2	Se 196.026†	19.0	6.6	8.55	µg/L	8.55 ppb	08:04:03
2	SiO2†	2032.1	30.8	5.5697	µg/L	5.5697 ppb	08:03:43
2	Si 251.611†	403.7	-1.9	-0.0642	µg/L	-0.0642 ppb	08:04:03
2	Sn 189.927†	-4.5	-5.1	-2.0535	µg/L	-2.0535 ppb	08:04:03
2	Ti 334.940†	1566.2	-31.8	-0.0586	µg/L	-0.0586 ppb	08:03:43
2	Tl 190.801†	-17.9	0.6	0.7594	µg/L	0.7594 ppb	08:04:03
2	U 367.007†	301.2	-1.0	-0.2213	µg/L	-0.2213 ppb	08:03:43
2	V 292.402†	323.0	10.1	0.0764	µg/L	0.0764 ppb	08:03:43
2	Zn 213.857†	574.6	6.4	0.0789	µg/L	0.0789 ppb	08:04:03
3	Sc RADIAL	22841.5	22841.5	96.2	%		08:02:40
3	Al 396.153Radial†	-91.7	12.7	26.703	µg/L	26.703 ppb	08:02:40
3	Ca 317.933Radial†	92.3	13.5	8.5390	µg/L	8.5390 ppb	08:03:00
3	Fe 238.204 Radial†	28.7	-3.1	-9.7202	µg/L	-9.7202 ppb	08:03:00
3	K 766.490 Radial†	775.6	86.8	118.83	µg/L	118.83 ppb	08:02:40
3	Mg 279.077 IEC†	-3.5	-6.7	-43.226	µg/L	-43.226 ppb	08:03:00
3	Na 589.592 Radial†	-64.6	-18.5	-25.668	µg/L	-25.668 ppb	08:02:40
3	Sr 421.552†	34.2	8.7	0.0999	µg/L	0.0999 ppb	08:02:40
3	Sc 361.383	1324814.3	1324814.3	102.40	%		08:04:05
3	Y 371.029	780392.1	780392.1	102.18	%		08:04:05
3	Ag 328.068†	786.3	92.6	0.6041	µg/L	0.6041 ppb	08:04:07
3	As 188.979†	-8.8	-4.9	-9.2841	µg/L	-9.2841 ppb	08:04:27
3	B 249.677†	352.1	66.6	0.7750	µg/L	0.7750 ppb	08:04:07
3	Ba 233.527†	-78.4	11.1	0.1513	µg/L	0.1513 ppb	08:04:27
3	Be 313.107†	-8496.2	-368.6	-0.1557	µg/L	-0.1557 ppb	08:04:07
3	Cd 226.502†	-106.8	0.5	0.0088	µg/L	0.0088 ppb	08:04:27
3	Co 228.616†	-98.7	5.0	0.1436	µg/L	0.1436 ppb	08:04:27
3	Cr 267.716†	123.1	6.8	0.1128	µg/L	0.1128 ppb	08:04:27
3	Cu 324.752†	4244.1	-32.8	-0.2165	µg/L	-0.2165 ppb	08:04:07
3	Mn 257.610†	219.1	21.8	0.0638	µg/L	0.0638 ppb	08:04:27
3	Mo 202.031†	-9.5	2.4	0.2651	µg/L	0.2651 ppb	08:04:27
3	Ni 231.604†	-71.4	-10.7	-0.3072	µg/L	-0.3072 ppb	08:04:27
3	P 214.914†	-69.6	-3.3	-3.3593	µg/L	-3.3593 ppb	08:04:27
3	Pb 220.353†	114.5	-2.4	-0.5098	µg/L	-0.5098 ppb	08:04:27
3	S 181.975 Axial†	29.0	0.2	0.6639	µg/L	0.6639 ppb	08:04:27
3	Sb 206.836†	-0.4	-4.9	-3.0710	µg/L	-3.0710 ppb	08:04:27
3	Se 196.026†	21.8	9.4	12.3	µg/L	12.3 ppb	08:04:27
3	SiO2†	1987.5	3.3	0.5921	µg/L	0.5921 ppb	08:04:07
3	Si 251.611†	445.9	42.4	1.2177	µg/L	1.2177 ppb	08:04:27
3	Sn 189.927†	9.6	8.7	3.4599	µg/L	3.4599 ppb	08:04:27
3	Ti 334.940†	1644.8	57.3	0.0993	µg/L	0.0993 ppb	08:04:07
3	Tl 190.801†	-13.2	5.1	6.1234	µg/L	6.1234 ppb	08:04:27
3	U 367.007†	351.1	50.1	14.224	µg/L	14.224 ppb	08:04:07
3	V 292.402†	197.5	-109.9	-0.7567	µg/L	-0.7567 ppb	08:04:07
3	Zn 213.857†	575.6	11.9	0.1508	µg/L	0.1508 ppb	08:04:27

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1335586.1	103.24	%	0.831				0.81%
Sc RADIAL	23282.3	98.1	%	1.76				1.79%
Y 371.029	786566.9	102.99	%	0.819				0.80%
Ag 328.068†	22.8	0.1438	µg/L	0.42134	0.1438	ppb	0.42134	293.01%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	11.5	24.216	µg/L	10.4545	24.216	ppb	10.4545	43.17%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.3	-2.3529	µg/L	6.05960	-2.3529	ppb	6.05960	257.54%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	121.2	1.4338	µg/L	0.82699	1.4338	ppb	0.82699	57.68%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	3.2	0.0440	µg/L	0.09333	0.0440	ppb	0.09333	212.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-246.9	-0.1043	µg/L	0.06951	-0.1043	ppb	0.06951	66.64%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.0	5.0678	µg/L	3.03209	5.0678	ppb	3.03209	59.83%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	5.5	0.0832	µg/L	0.16145	0.0832	ppb	0.16145	193.96%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	15.1	0.4329	µg/L	0.48515	0.4329	ppb	0.48515	112.07%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                11.1      0.1944 µg/L       0.07708      0.1944 ppb        0.07708  39.65%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -16.0     -0.1047 µg/L       0.26224     -0.1047 ppb        0.26224 250.44%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -2.4     -7.3037 µg/L       4.69675     -7.3037 ppb        4.69675  64.31%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          49.1      67.186 µg/L       44.8567      67.186 ppb        44.8567  66.77%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -3.3     -21.524 µg/L       24.6756     -21.524 ppb        24.6756 114.64%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                13.2      0.0384 µg/L       0.03654      0.0384 ppb        0.03654  95.21%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 6.7      0.7457 µg/L       0.59932      0.7457 ppb        0.59932  80.37%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         -7.8     -10.914 µg/L       13.5731     -10.914 ppb        13.5731 124.37%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 4.0      0.1147 µg/L       0.44519      0.1147 ppb        0.44519 388.26%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -7.0     -7.1630 µg/L       3.29593     -7.1630 ppb        3.29593  46.01%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -12.3     -2.5620 µg/L       2.62484     -2.5620 ppb        2.62484 102.45%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -2.0     -6.2477 µg/L       7.79833     -6.2477 ppb        7.79833 124.82%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -3.9     -2.4155 µg/L       0.57447     -2.4155 ppb        0.57447  23.78%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 4.6        5.99 µg/L         7.887        5.99 ppb          7.887 131.75%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     -27.4     -4.9495 µg/L      14.12994     -4.9495 ppb       14.12994 285.48%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                27.5      0.7801 µg/L       0.73142      0.7801 ppb        0.73142  93.76%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 2.3      0.9098 µg/L       2.77983      0.9098 ppb        2.77983 305.54%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 9.1      0.1055 µg/L       0.09193      0.1055 ppb        0.09193  87.18%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                -5.6     -0.0147 µg/L       0.09960     -0.0147 ppb        0.09960 675.71%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 3.3      3.9785 µg/L       2.83874      3.9785 ppb        2.83874  71.35%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 32.7      9.2819 µg/L       8.23224      9.2819 ppb        8.23224  88.69%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -45.5     -0.3036 µg/L       0.42136     -0.3036 ppb        0.42136 138.81%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                15.9      0.1977 µg/L       0.14805      0.1977 ppb        0.14805  74.87%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 12 **Autosampler Location: 103**
Sample ID: ICSA **Date Collected: 11/6/2013 08:16:53**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22523.6	22523.6	94.9	%			08:17:28
1	Al 396.153Radial†	227879.7	240322.7	504520	µg/L	504520	ppb	08:17:26
1	Ca 317.933Radial†	735821.4	775568.4	488770	µg/L	488770	ppb	08:17:26
1	Fe 238.204 Radial†	58782.9	61931.8	192010	µg/L	192010	ppb	08:17:28
1	K 766.490 Radial†	691.7	9.8	94.358	µg/L	94.358	ppb	08:17:28
1	Mg 279.077 IEC†	72765.0	76700.6	494250	µg/L	494250	ppb	08:17:28
1	Na 589.592 Radial†	-28.3	18.8	24.600	µg/L	24.600	ppb	08:17:28
1	Sr 421.552†	250.7	237.5	-1.0666	µg/L	-1.0666	ppb	08:17:28
1	Sc 361.383	1240651.7	1240651.7	95.899	%			08:17:53
1	Y 371.029	712624.5	712624.5	93.306	%			08:17:53
1	Ag 328.068†	2721.5	2162.6	-0.8941	µg/L	-0.8941	ppb	08:17:53
1	As 188.979†	-21.4	-18.7	-16.372	µg/L	-16.372	ppb	08:18:14
1	B 249.677†	59796.7	62076.5	8.6690	µg/L	8.6690	ppb	08:17:53
1	Ba 233.527†	141.4	235.1	0.9251	µg/L	0.9251	ppb	08:18:14
1	Be 313.107†	-9052.7	-1511.8	-0.6387	µg/L	-0.6387	ppb	08:17:53
1	Cd 226.502†	1471.9	1639.7	-0.6430	µg/L	-0.6430	ppb	08:18:14
1	Co 228.616†	-53.2	45.9	-0.3239	µg/L	-0.3239	ppb	08:18:14
1	Cr 267.716†	142.1	34.7	1.9749	µg/L	1.9749	ppb	08:18:14
1	Cu 324.752†	-739.3	-4948.2	-3.5537	µg/L	-3.5537	ppb	08:18:14
1	Mn 257.610†	3880.0	3853.7	0.3568	µg/L	0.3568	ppb	08:17:53
1	Mo 202.031†	-187.3	-183.6	5.3183	µg/L	5.3183	ppb	08:18:14
1	Ni 231.604†	8.3	67.7	0.9298	µg/L	0.9298	ppb	08:18:14
1	P 214.914†	60.9	128.2	-16.888	µg/L	-16.888	ppb	08:18:14
1	Pb 220.353†	15.3	-98.3	-9.1246	µg/L	-9.1246	ppb	08:18:14
1	S 181.975 Axial†	76.5	51.7	-1.5518	µg/L	-1.5518	ppb	08:18:14
1	Sb 206.836†	8.2	4.0	-0.4787	µg/L	-0.4787	ppb	08:18:14
1	Se 196.026†	-44.9	-58.6	10.7	µg/L	10.7	ppb	08:18:14
1	SiO2†	1777.8	-83.8	-15.124	µg/L	-15.124	ppb	08:18:14
1	Si 251.611†	740.3	379.0	33.259	µg/L	33.259	ppb	08:18:14
1	Sn 189.927†	-88.3	-92.8	16.431	µg/L	16.431	ppb	08:18:14
1	Ti 334.940†	-9132.8	-11072.2	-0.3685	µg/L	-0.3685	ppb	08:17:53
1	Tl 190.801†	-16.6	0.7	-21.935	µg/L	-21.935	ppb	08:18:14
1	U 367.007†	3992.5	3870.5	-25.646	µg/L	-25.646	ppb	08:17:53
1	V 292.402†	-3651.2	-4110.1	0.3530	µg/L	0.3530	ppb	08:18:14
1	Zn 213.857†	2703.4	2268.8	-5.8945	µg/L	-5.8945	ppb	08:18:14
2	Sc RADIAL	22426.7	22426.7	94.5	%			08:17:32
2	Al 396.153Radial†	228510.1	242028.2	508100	µg/L	508100	ppb	08:17:30
2	Ca 317.933Radial†	735979.8	779088.3	490990	µg/L	490990	ppb	08:17:30
2	Fe 238.204 Radial†	58760.7	62176.0	192770	µg/L	192770	ppb	08:17:32
2	K 766.490 Radial†	546.8	-140.4	-110.93	µg/L	-110.93	ppb	08:17:32
2	Mg 279.077 IEC†	72730.8	76995.9	496150	µg/L	496150	ppb	08:17:32
2	Na 589.592 Radial†	-0.1	48.6	66.061	µg/L	66.061	ppb	08:17:32
2	Sr 421.552†	195.5	180.2	-1.7456	µg/L	-1.7456	ppb	08:17:32
2	Sc 361.383	1221692.0	1221692.0	94.434	%			08:18:16
2	Y 371.029	702845.9	702845.9	92.025	%			08:18:16
2	Ag 328.068†	2854.2	2347.2	0.2558	µg/L	0.2558	ppb	08:18:16
2	As 188.979†	-12.8	-9.9	0.1218	µg/L	0.1218	ppb	08:18:36
2	B 249.677†	58632.1	61811.0	2.7590	µg/L	2.7590	ppb	08:18:16
2	Ba 233.527†	149.8	246.3	1.0699	µg/L	1.0699	ppb	08:18:36
2	Be 313.107†	-8628.8	-1209.4	-0.5110	µg/L	-0.5110	ppb	08:18:16
2	Cd 226.502†	1436.2	1625.6	-0.9519	µg/L	-0.9519	ppb	08:18:36
2	Co 228.616†	-56.5	41.6	-0.4545	µg/L	-0.4545	ppb	08:18:36
2	Cr 267.716†	164.1	60.3	2.4304	µg/L	2.4304	ppb	08:18:36
2	Cu 324.752†	-758.0	-4979.9	-3.6425	µg/L	-3.6425	ppb	08:18:36
2	Mn 257.610†	3882.6	3919.3	0.5048	µg/L	0.5048	ppb	08:18:16
2	Mo 202.031†	-185.5	-184.7	5.2955	µg/L	5.2955	ppb	08:18:36
2	Ni 231.604†	-19.3	38.5	0.0898	µg/L	0.0898	ppb	08:18:36
2	P 214.914†	36.8	103.7	-42.131	µg/L	-42.131	ppb	08:18:36
2	Pb 220.353†	65.1	-45.3	1.9991	µg/L	1.9991	ppb	08:18:36

2	S 181.975 Axial†	64.8	40.5	-37.671 µg/L	-37.671 ppb	08:18:36
2	Sb 206.836†	6.0	1.9	-1.8569 µg/L	-1.8569 ppb	08:18:36
2	Se 196.026†	-49.3	-64.0	3.98 µg/L	3.98 ppb	08:18:36
2	SiO2†	1810.4	-20.5	-3.6810 µg/L	-3.6810 ppb	08:18:36
2	Si 251.611†	743.7	394.6	33.795 µg/L	33.795 ppb	08:18:36
2	Sn 189.927†	-103.3	-110.2	9.7475 µg/L	9.7475 ppb	08:18:36
2	Ti 334.940†	-9025.5	-11106.4	-0.3467 µg/L	-0.3467 ppb	08:18:16
2	Tl 190.801†	-23.1	-6.4	-30.634 µg/L	-30.634 ppb	08:18:36
2	U 367.007†	4004.1	3947.4	-8.3573 µg/L	-8.3573 ppb	08:18:16
2	V 292.402†	-3605.9	-4121.3	0.4005 µg/L	0.4005 ppb	08:18:36
2	Zn 213.857†	2681.2	2289.0	-5.7720 µg/L	-5.7720 ppb	08:18:36
3	Sc RADIAL	22452.0	22452.0	94.6 %		08:17:36
3	Al 396.153Radial†	226201.6	239314.7	502410 µg/L	502410 ppb	08:17:34
3	Ca 317.933Radial†	735606.0	777815.9	490190 µg/L	490190 ppb	08:17:34
3	Fe 238.204 Radial†	58691.3	62032.7	192320 µg/L	192320 ppb	08:17:36
3	K 766.490 Radial†	609.5	-74.8	-21.331 µg/L	-21.331 ppb	08:17:36
3	Mg 279.077 IEC†	72554.1	76722.3	494390 µg/L	494390 ppb	08:17:36
3	Na 589.592 Radial†	-70.7	-26.1	-37.782 µg/L	-37.782 ppb	08:17:36
3	Sr 421.552†	206.3	191.3	-1.6112 µg/L	-1.6112 ppb	08:17:36
3	Sc 361.383	1235802.6	1235802.6	95.524 %		08:18:38
3	Y 371.029	710095.9	710095.9	92.974 %		08:18:38
3	Ag 328.068†	2695.3	2146.4	-1.0685 µg/L	-1.0685 ppb	08:18:38
3	As 188.979†	-12.4	-9.3	1.1452 µg/L	1.1452 ppb	08:18:58
3	B 249.677†	59640.1	62157.2	8.4917 µg/L	8.4917 ppb	08:18:38
3	Ba 233.527†	128.7	222.4	0.7461 µg/L	0.7461 ppb	08:18:58
3	Be 313.107†	-9057.7	-1554.1	-0.6566 µg/L	-0.6566 ppb	08:18:38
3	Cd 226.502†	1469.5	1643.1	-0.6324 µg/L	-0.6324 ppb	08:18:58
3	Co 228.616†	-34.0	65.9	0.2428 µg/L	0.2428 ppb	08:18:58
3	Cr 267.716†	144.5	37.8	2.0220 µg/L	2.0220 ppb	08:18:58
3	Cu 324.752†	-766.1	-4979.3	-3.7050 µg/L	-3.7050 ppb	08:18:58
3	Mn 257.610†	3964.5	3958.1	0.6621 µg/L	0.6621 ppb	08:18:38
3	Mo 202.031†	-188.9	-186.1	5.0569 µg/L	5.0569 ppb	08:18:58
3	Ni 231.604†	11.8	71.4	1.0348 µg/L	1.0348 ppb	08:18:58
3	P 214.914†	52.0	119.2	-26.960 µg/L	-26.960 ppb	08:18:58
3	Pb 220.353†	36.8	-75.7	-4.5328 µg/L	-4.5328 ppb	08:18:58
3	S 181.975 Axial†	65.9	40.9	-35.412 µg/L	-35.412 ppb	08:18:58
3	Sb 206.836†	3.4	-1.0	-3.6252 µg/L	-3.6252 ppb	08:18:58
3	Se 196.026†	-36.3	-49.8	22.2 µg/L	22.2 ppb	08:18:58
3	SiO2†	1800.3	-52.9	-9.5436 µg/L	-9.5436 ppb	08:18:58
3	Si 251.611†	724.0	364.9	32.892 µg/L	32.892 ppb	08:18:58
3	Sn 189.927†	-97.5	-102.8	12.596 µg/L	12.596 ppb	08:18:58
3	Ti 334.940†	-9173.6	-11152.3	-0.4615 µg/L	-0.4615 ppb	08:18:38
3	Tl 190.801†	-6.6	11.1	-9.4636 µg/L	-9.4636 ppb	08:18:58
3	U 367.007†	4076.7	3975.0	2.0122 µg/L	2.0122 ppb	08:18:38
3	V 292.402†	-3634.4	-4107.5	0.4321 µg/L	0.4321 ppb	08:18:58
3	Zn 213.857†	2682.7	2258.2	-6.0657 µg/L	-6.0657 ppb	08:18:58

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1232715.4	95.286	%	0.7614				0.80%
Sc RADIAL	22467.4	94.6	%	0.21				0.22%
Y 371.029	708522.1	92.768	%	0.6646				0.72%
Ag 328.068†	2218.7	-0.5689	µg/L	0.71954	-0.5689	ppb	0.71954	126.47%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	240555.2	505010	µg/L	2878.3	505010	ppb	2878.3	0.57%
QC value within limits for Al 396.153Radial Recovery = 101.00%								
As 188.979†	-12.6	-5.0351	µg/L	9.83163	-5.0351	ppb	9.83163	195.26%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	62014.9	6.6399	µg/L	3.36211	6.6399	ppb	3.36211	50.63%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	234.6	0.9137	µg/L	0.16218	0.9137	ppb	0.16218	17.75%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1425.1	-0.6021	µg/L	0.07943	-0.6021	ppb	0.07943	13.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	777490.9	489980	µg/L	1123.3	489980	ppb	1123.3	0.23%
QC value within limits for Ca 317.933Radial Recovery = 98.00%								
Cd 226.502†	1636.1	-0.7424	µg/L	0.18144	-0.7424	ppb	0.18144	24.44%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	51.1	-0.1785	µg/L	0.37066	-0.1785	ppb	0.37066	207.60%

```
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               44.3      2.1424 µg/L       0.25051      2.1424 ppb        0.25051  11.69%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -4969.1     -3.6338 µg/L       0.07603     -3.6338 ppb        0.07603   2.09%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†     62046.8      192370 µg/L         380.5      192370 ppb          380.5   0.20%
   QC value within limits for Fe 238.204 Radial  Recovery = 96.18%
K 766.490 Radial†        -68.5     -12.634 µg/L      102.9194     -12.634 ppb       102.9194 814.62%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†        76806.3      494930 µg/L        1060.6      494930 ppb         1060.6   0.21%
   QC value within limits for Mg 279.077 IEC  Recovery = 98.99%
Mn 257.610†             3910.4      0.5079 µg/L       0.15267      0.5079 ppb        0.15267  30.06%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†             -184.8      5.2236 µg/L       0.14480      5.2236 ppb        0.14480   2.77%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        13.8      17.627 µg/L       52.2714      17.627 ppb        52.2714 296.55%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               59.2      0.6848 µg/L       0.51793      0.6848 ppb        0.51793  75.63%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               117.0     -28.660 µg/L       12.7071     -28.660 ppb        12.7071  44.34%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -73.1     -3.8861 µg/L       5.58997     -3.8861 ppb        5.58997 143.85%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          44.4     -24.878 µg/L       20.2329     -24.878 ppb        20.2329  81.33%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                1.6     -1.9869 µg/L       1.57724     -1.9869 ppb        1.57724  79.38%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -57.5        12.3 µg/L          9.22        12.3 ppb           9.22  75.02%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -52.4     -9.4496 µg/L       5.72211     -9.4496 ppb        5.72211  60.55%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              379.5      33.315 µg/L        0.4538      33.315 ppb         0.4538   1.36%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -101.9      12.925 µg/L        3.3540      12.925 ppb         3.3540  25.95%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              203.0     -1.4745 µg/L       0.35955     -1.4745 ppb        0.35955  24.39%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†           -11110.3     -0.3922 µg/L       0.06097     -0.3922 ppb        0.06097  15.54%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                1.8     -20.677 µg/L       10.6408     -20.677 ppb        10.6408  51.46%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               3931.0     -10.664 µg/L       13.9724     -10.664 ppb        13.9724 131.03%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†              -4113.0      0.3952 µg/L       0.03981      0.3952 ppb        0.03981  10.07%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              2272.0     -5.9107 µg/L       0.14753     -5.9107 ppb        0.14753   2.50%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 13 **Autosampler Location: 104**
Sample ID: ICSAB **Date Collected: 11/6/2013 08:19:06**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22314.2	22314.2	94.0	%			08:19:38
1	Al 396.153Radial†	222033.4	236356.3	496190	µg/L	496190	ppb	08:19:36
1	Ca 317.933Radial†	716037.5	761796.7	480090	µg/L	480090	ppb	08:19:36
1	Fe 238.204 Radial†	57349.3	60987.9	189070	µg/L	189070	ppb	08:19:38
1	K 766.490 Radial†	4267.0	3820.9	5316.5	µg/L	5316.5	ppb	08:19:38
1	Mg 279.077 IEC†	70944.9	75483.8	486410	µg/L	486410	ppb	08:19:38
1	Na 589.592 Radial†	3372.1	3636.6	5055.0	µg/L	5055.0	ppb	08:19:38
1	Sr 421.552†	40852.4	43441.0	497.87	µg/L	497.87	ppb	08:19:38
1	Sc 361.383	1226634.4	1226634.4	94.816	%			08:20:04
1	Y 371.029	705842.9	705842.9	92.418	%			08:20:04
1	Ag 328.068†	40193.9	41716.5	265.04	µg/L	265.04	ppb	08:20:04
1	As 188.979†	240.8	257.6	508.77	µg/L	508.77	ppb	08:20:24
1	B 249.677†	97782.4	102851.7	500.80	µg/L	500.80	ppb	08:20:04
1	Ba 233.527†	32922.1	34809.9	479.22	µg/L	479.22	ppb	08:20:04
1	Be 313.107†	530762.5	567711.7	239.85	µg/L	239.85	ppb	08:20:04
1	Cd 226.502†	30231.6	31989.4	453.03	µg/L	453.03	ppb	08:20:24
1	Co 228.616†	14706.2	15611.8	444.02	µg/L	444.02	ppb	08:20:24
1	Cr 267.716†	24840.5	26085.3	470.51	µg/L	470.51	ppb	08:20:24
1	Cu 324.752†	76670.1	76685.0	547.66	µg/L	547.66	ppb	08:20:04
1	Mn 257.610†	155297.4	163596.7	459.86	µg/L	459.86	ppb	08:20:04
1	Mo 202.031†	3960.4	4188.6	493.03	µg/L	493.03	ppb	08:20:24
1	Ni 231.604†	14384.1	15229.6	435.93	µg/L	435.93	ppb	08:20:24
1	P 214.914†	2329.1	2521.2	2417.8	µg/L	2417.8	ppb	08:20:24
1	Pb 220.353†	2257.7	2266.9	484.47	µg/L	484.47	ppb	08:20:24
1	S 181.975 Axial†	824.7	841.7	2486.5	µg/L	2486.5	ppb	08:20:24
1	Sb 206.836†	748.4	784.8	486.01	µg/L	486.01	ppb	08:20:24
1	Se 196.026†	1652.4	1731.0	2340	µg/L	2340	ppb	08:20:24
1	SiO2†	57201.5	58391.6	10561	µg/L	10561	ppb	08:20:04
1	Si 251.611†	163751.0	172311.7	4978.1	µg/L	4978.1	ppb	08:20:04
1	Sn 189.927†	1021.8	1077.0	482.19	µg/L	482.19	ppb	08:20:24
1	Ti 334.940†	246633.1	258569.7	496.57	µg/L	496.57	ppb	08:20:04
1	Tl 190.801†	386.5	425.6	485.66	µg/L	485.66	ppb	08:20:24
1	U 367.007†	5751.4	5773.1	527.71	µg/L	527.71	ppb	08:20:04
1	V 292.402†	63318.4	66477.8	499.41	µg/L	499.41	ppb	08:20:04
1	Zn 213.857†	38461.0	40013.8	458.21	µg/L	458.21	ppb	08:20:04
2	Sc RADIAL	22344.3	22344.3	94.1	%			08:19:42
2	Al 396.153Radial†	224708.6	238881.2	501490	µg/L	501490	ppb	08:19:40
2	Ca 317.933Radial†	729309.0	774874.2	488330	µg/L	488330	ppb	08:19:40
2	Fe 238.204 Radial†	57709.4	61288.4	190000	µg/L	190000	ppb	08:19:42
2	K 766.490 Radial†	4206.6	3750.5	5220.7	µg/L	5220.7	ppb	08:19:42
2	Mg 279.077 IEC†	71363.3	75826.8	488620	µg/L	488620	ppb	08:19:42
2	Na 589.592 Radial†	3346.5	3604.6	5010.5	µg/L	5010.5	ppb	08:19:42
2	Sr 421.552†	40993.9	43532.8	498.86	µg/L	498.86	ppb	08:19:42
2	Sc 361.383	1231316.4	1231316.4	95.178	%			08:20:26
2	Y 371.029	707447.0	707447.0	92.628	%			08:20:26
2	Ag 328.068†	40339.0	41707.7	264.79	µg/L	264.79	ppb	08:20:26
2	As 188.979†	240.3	256.1	506.11	µg/L	506.11	ppb	08:20:46
2	B 249.677†	98351.3	103057.3	499.74	µg/L	499.74	ppb	08:20:26
2	Ba 233.527†	33132.6	34899.1	480.44	µg/L	480.44	ppb	08:20:26
2	Be 313.107†	533286.6	568235.2	240.07	µg/L	240.07	ppb	08:20:26
2	Cd 226.502†	30218.0	31853.9	450.88	µg/L	450.88	ppb	08:20:46
2	Co 228.616†	14677.0	15522.1	441.45	µg/L	441.45	ppb	08:20:46
2	Cr 267.716†	24824.1	25968.5	468.43	µg/L	468.43	ppb	08:20:46
2	Cu 324.752†	77131.7	76862.5	548.98	µg/L	548.98	ppb	08:20:26
2	Mn 257.610†	156388.9	164120.7	461.32	µg/L	461.32	ppb	08:20:26
2	Mo 202.031†	3996.3	4210.5	495.59	µg/L	495.59	ppb	08:20:46
2	Ni 231.604†	14355.6	15141.9	433.41	µg/L	433.41	ppb	08:20:46
2	P 214.914†	2305.3	2486.8	2382.5	µg/L	2382.5	ppb	08:20:46
2	Pb 220.353†	2229.9	2228.7	476.70	µg/L	476.70	ppb	08:20:46

2	S 181.975 Axial†	832.3	846.4	2499.7 µg/L	2499.7 ppb		08:20:46
2	Sb 206.836†	760.3	794.3	491.96 µg/L	491.96 ppb		08:20:46
2	Se 196.026†	1641.5	1712.9	2310 µg/L	2310 ppb		08:20:46
2	SiO2†	57570.2	58549.6	10590 µg/L	10590 ppb		08:20:26
2	Si 251.611†	164652.4	172602.1	4986.5 µg/L	4986.5 ppb		08:20:26
2	Sn 189.927†	1017.2	1068.0	479.44 µg/L	479.44 ppb		08:20:46
2	Ti 334.940†	247930.7	258943.9	497.67 µg/L	497.67 ppb		08:20:26
2	Tl 190.801†	378.7	415.9	473.61 µg/L	473.61 ppb		08:20:46
2	U 367.007†	5671.8	5666.4	490.93 µg/L	490.93 ppb		08:20:26
2	V 292.402†	63638.0	66559.6	500.13 µg/L	500.13 ppb		08:20:26
2	Zn 213.857†	38623.9	40030.6	458.27 µg/L	458.27 ppb		08:20:26
3	Sc RADIAL	22439.1	22439.1	94.5 %			08:19:46
3	Al 396.153Radial†	225933.1	239167.3	502090 µg/L	502090 ppb		08:19:44
3	Ca 317.933Radial†	732274.4	774735.5	488250 µg/L	488250 ppb		08:19:44
3	Fe 238.204 Radial†	58067.1	61407.6	190370 µg/L	190370 ppb		08:19:46
3	K 766.490 Radial†	4204.2	3729.1	5191.5 µg/L	5191.5 ppb		08:19:46
3	Mg 279.077 IEC†	71835.0	76005.3	489770 µg/L	489770 ppb		08:19:46
3	Na 589.592 Radial†	3433.1	3681.2	5117.0 µg/L	5117.0 ppb		08:19:46
3	Sr 421.552†	41150.5	43514.4	498.65 µg/L	498.65 ppb		08:19:46
3	Sc 361.383	1240201.7	1240201.7	95.864 %			08:20:49
3	Y 371.029	713134.2	713134.2	93.372 %			08:20:49
3	Ag 328.068†	40474.4	41545.3	263.68 µg/L	263.68 ppb		08:20:49
3	As 188.979†	248.1	262.4	518.01 µg/L	518.01 ppb		08:21:09
3	B 249.677†	99111.7	103110.1	498.99 µg/L	498.99 ppb		08:20:49
3	Ba 233.527†	33390.7	34918.9	480.71 µg/L	480.71 ppb		08:20:49
3	Be 313.107†	538012.9	569151.1	240.46 µg/L	240.46 ppb		08:20:49
3	Cd 226.502†	30462.4	31881.3	451.25 µg/L	451.25 ppb		08:21:09
3	Co 228.616†	14782.9	15522.1	441.45 µg/L	441.45 ppb		08:21:09
3	Cr 267.716†	25024.3	25990.4	468.81 µg/L	468.81 ppb		08:21:09
3	Cu 324.752†	77814.1	76993.8	549.94 µg/L	549.94 ppb		08:20:49
3	Mn 257.610†	157404.0	164002.3	460.95 µg/L	460.95 ppb		08:20:49
3	Mo 202.031†	4002.3	4186.6	492.98 µg/L	492.98 ppb		08:21:09
3	Ni 231.604†	14512.8	15197.9	435.01 µg/L	435.01 ppb		08:21:09
3	P 214.914†	2358.1	2524.5	2420.7 µg/L	2420.7 ppb		08:21:09
3	Pb 220.353†	2277.0	2261.0	483.42 µg/L	483.42 ppb		08:21:09
3	S 181.975 Axial†	842.2	850.5	2512.2 µg/L	2512.2 ppb		08:21:09
3	Sb 206.836†	757.2	785.3	486.34 µg/L	486.34 ppb		08:21:09
3	Se 196.026†	1636.9	1695.7	2290 µg/L	2290 ppb		08:21:09
3	SiO2†	58021.9	58587.4	10596 µg/L	10596 ppb		08:20:49
3	Si 251.611†	165872.6	172635.5	4987.5 µg/L	4987.5 ppb		08:20:49
3	Sn 189.927†	1032.6	1076.4	482.81 µg/L	482.81 ppb		08:21:09
3	Ti 334.940†	249672.7	258894.9	497.56 µg/L	497.56 ppb		08:20:49
3	Tl 190.801†	378.6	413.0	470.05 µg/L	470.05 ppb		08:21:09
3	U 367.007†	5794.6	5751.8	513.12 µg/L	513.12 ppb		08:20:49
3	V 292.402†	63984.7	66442.3	499.35 µg/L	499.35 ppb		08:20:49
3	Zn 213.857†	38953.5	40083.7	458.84 µg/L	458.84 ppb		08:20:49

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1232717.5	95.286	%	0.5327				0.56%
Sc RADIAL	22365.9	94.2	%	0.27				0.29%
Y 371.029	708808.0	92.806	%	0.5017				0.54%
Ag 328.068†	41656.5	264.50	µg/L	0.725	264.50	ppb	0.725	0.27%
QC value within limits for Ag 328.068 Recovery = 105.80%								
Al 396.153Radial†	238134.9	499920	µg/L	3248.5	499920	ppb	3248.5	0.65%
QC value within limits for Al 396.153Radial Recovery = 99.98%								
As 188.979†	258.7	510.97	µg/L	6.245	510.97	ppb	6.245	1.22%
QC value within limits for As 188.979 Recovery = 102.19%								
B 249.677†	103006.4	499.84	µg/L	0.913	499.84	ppb	0.913	0.18%
QC value within limits for B 249.677 Recovery = 99.97%								
Ba 233.527†	34875.9	480.12	µg/L	0.793	480.12	ppb	0.793	0.17%
QC value within limits for Ba 233.527 Recovery = 96.02%								
Be 313.107†	568366.0	240.13	µg/L	0.308	240.13	ppb	0.308	0.13%
QC value within limits for Be 313.107 Recovery = 96.05%								
Ca 317.933Radial†	770468.8	485560	µg/L	4734.0	485560	ppb	4734.0	0.97%
QC value within limits for Ca 317.933Radial Recovery = 97.11%								
Cd 226.502†	31908.2	451.72	µg/L	1.149	451.72	ppb	1.149	0.25%
QC value within limits for Cd 226.502 Recovery = 90.34%								
Co 228.616†	15552.0	442.31	µg/L	1.484	442.31	ppb	1.484	0.34%

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   QC value within limits for Co 228.616  Recovery = 88.46%
Cr 267.716†            26014.7      469.25 µg/L         1.103      469.25 ppb          1.103   0.24%
   QC value within limits for Cr 267.716  Recovery = 93.85%
Cu 324.752†            76847.1      548.86 µg/L         1.145      548.86 ppb          1.145   0.21%
   QC value within limits for Cu 324.752  Recovery = 109.77%
Fe 238.204 Radial†     61228.0      189810 µg/L         670.7      189810 ppb          670.7   0.35%
   QC value within limits for Fe 238.204 Radial  Recovery = 94.91%
K 766.490 Radial†       3766.8      5242.9 µg/L         65.41      5242.9 ppb          65.41   1.25%
   QC value within limits for K 766.490 Radial  Recovery = 104.86%
Mg 279.077 IEC†        75772.0      488260 µg/L        1708.0      488260 ppb         1708.0   0.35%
   QC value within limits for Mg 279.077 IEC  Recovery = 97.65%
Mn 257.610†           163906.6      460.71 µg/L         0.760      460.71 ppb          0.760   0.16%
   QC value within limits for Mn 257.610  Recovery = 92.14%
Mo 202.031†             4195.2      493.87 µg/L         1.491      493.87 ppb          1.491   0.30%
   QC value within limits for Mo 202.031  Recovery = 98.77%
Na 589.592 Radial†      3640.8      5060.8 µg/L         53.49      5060.8 ppb          53.49   1.06%
   QC value within limits for Na 589.592 Radial  Recovery = 101.22%
Ni 231.604†            15189.8      434.78 µg/L         1.275      434.78 ppb          1.275   0.29%
   QC value within limits for Ni 231.604  Recovery = 86.96%
P 214.914†              2510.8      2407.0 µg/L         21.24      2407.0 ppb          21.24   0.88%
   QC value within limits for P 214.914  Recovery = 96.28%
Pb 220.353†             2252.2      481.53 µg/L         4.217      481.53 ppb          4.217   0.88%
   QC value within limits for Pb 220.353  Recovery = 96.31%
S 181.975 Axial†         846.2      2499.5 µg/L         12.84      2499.5 ppb          12.84   0.51%
   QC value within limits for S 181.975 Axial  Recovery = 99.98%
Sb 206.836†              788.1      488.10 µg/L         3.347      488.10 ppb          3.347   0.69%
   QC value within limits for Sb 206.836  Recovery = 97.62%
Se 196.026†             1713.2        2310 µg/L          22.6        2310 ppb           22.6   0.98%
   QC value within limits for Se 196.026  Recovery = 92.59%
SiO2†                  58509.5       10582 µg/L          18.8       10582 ppb           18.8   0.18%
   QC value within limits for SiO2  Recovery = 98.95%
Si 251.611†           172516.4      4984.0 µg/L          5.20      4984.0 ppb          5.20   0.10%
   QC value within limits for Si 251.611  Recovery = 99.68%
Sn 189.927†             1073.8      481.48 µg/L         1.793      481.48 ppb          1.793   0.37%
   QC value within limits for Sn 189.927  Recovery = 96.30%
Sr 421.552†            43496.1      498.46 µg/L         0.525      498.46 ppb          0.525   0.11%
   QC value within limits for Sr 421.552  Recovery = 99.69%
Ti 334.940†           258802.8      497.27 µg/L         0.607      497.27 ppb          0.607   0.12%
   QC value within limits for Ti 334.940  Recovery = 99.45%
Tl 190.801†              418.2      476.44 µg/L         8.180      476.44 ppb          8.180   1.72%
   QC value within limits for Tl 190.801  Recovery = 95.29%
U 367.007†              5730.5      510.59 µg/L        18.523      510.59 ppb         18.523   3.63%
   QC value within limits for U 367.007  Recovery = 102.12%
V 292.402†             66493.2      499.63 µg/L         0.434      499.63 ppb          0.434   0.09%
   QC value within limits for V 292.402  Recovery = 99.93%
Zn 213.857†            40042.7      458.44 µg/L         0.352      458.44 ppb          0.352   0.08%
   QC value within limits for Zn 213.857  Recovery = 91.69%
All analyte(s) passed QC.
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Sequence No.: 14 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 08:21:17**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23613.0	23613.0	99.5	%			08:21:48
1	Al 396.153Radial†	2315.1	2435.8	5108.7	µg/L	5108.7	ppb	08:22:08
1	Ca 317.933Radial†	8223.6	8186.4	5159.1	µg/L	5159.1	ppb	08:22:08
1	Fe 238.204 Radial†	1703.3	1679.7	5192.0	µg/L	5192.0	ppb	08:22:08
1	K 766.490 Radial†	4354.1	3658.7	5015.7	µg/L	5015.7	ppb	08:21:48
1	Mg 279.077 IEC†	821.2	822.6	5301.3	µg/L	5301.3	ppb	08:22:08
1	Na 589.592 Radial†	6992.6	7079.7	9843.9	µg/L	9843.9	ppb	08:21:48
1	Sr 421.552†	42291.7	42497.3	490.67	µg/L	490.67	ppb	08:21:48
1	Sc 361.383	1341155.8	1341155.8	103.67	%			08:23:10
1	Y 371.029	774820.9	774820.9	101.45	%			08:23:10
1	Ag 328.068†	79029.1	75557.8	506.17	µg/L	506.17	ppb	08:23:12
1	As 188.979†	268.7	262.8	501.09	µg/L	501.09	ppb	08:23:32
1	B 249.677†	43914.1	42083.2	477.20	µg/L	477.20	ppb	08:23:12
1	Ba 233.527†	37607.1	36364.2	502.90	µg/L	502.90	ppb	08:23:12
1	Be 313.107†	1196253.9	1161857.7	490.87	µg/L	490.87	ppb	08:23:10
1	Cd 226.502†	34891.3	33761.6	503.58	µg/L	503.58	ppb	08:23:12
1	Co 228.616†	18215.0	17672.0	504.45	µg/L	504.45	ppb	08:23:12
1	Cr 267.716†	28864.9	27730.2	498.94	µg/L	498.94	ppb	08:23:12
1	Cu 324.752†	81200.6	74150.4	501.91	µg/L	501.91	ppb	08:23:12
1	Mn 257.610†	182149.4	175512.6	504.65	µg/L	504.65	ppb	08:23:12
1	Mo 202.031†	4648.1	4495.3	502.24	µg/L	502.24	ppb	08:23:32
1	Ni 231.604†	18187.9	17603.4	505.00	µg/L	505.00	ppb	08:23:12
1	P 214.914†	2446.7	2424.8	2459.5	µg/L	2459.5	ppb	08:23:32
1	Pb 220.353†	2643.8	2436.0	508.65	µg/L	508.65	ppb	08:23:32
1	S 181.975 Axial†	355.4	314.8	986.71	µg/L	986.71	ppb	08:23:32
1	Sb 206.836†	826.6	792.8	493.65	µg/L	493.65	ppb	08:23:32
1	Se 196.026†	415.8	389.3	508	µg/L	508	ppb	08:23:32
1	SiO2†	32165.7	29090.1	5266.6	µg/L	5266.6	ppb	08:23:12
1	Si 251.611†	89334.7	85781.0	2464.4	µg/L	2464.4	ppb	08:23:12
1	Sn 189.927†	1292.1	1245.7	497.62	µg/L	497.62	ppb	08:23:32
1	Ti 334.940†	283001.3	271439.7	500.85	µg/L	500.85	ppb	08:23:12
1	Tl 190.801†	423.7	426.7	508.29	µg/L	508.29	ppb	08:23:32
1	U 367.007†	2203.0	1832.3	487.70	µg/L	487.70	ppb	08:23:12
1	V 292.402†	74255.0	71325.0	505.64	µg/L	505.64	ppb	08:23:12
1	Zn 213.857†	42904.5	40836.2	500.65	µg/L	500.65	ppb	08:23:12
2	Sc RADIAL	23795.2	23795.2	100	%			08:22:10
2	Al 396.153Radial†	2283.0	2386.0	5004.0	µg/L	5004.0	ppb	08:22:30
2	Ca 317.933Radial†	8200.3	8099.8	5104.5	µg/L	5104.5	ppb	08:22:30
2	Fe 238.204 Radial†	1702.9	1666.1	5149.9	µg/L	5149.9	ppb	08:22:30
2	K 766.490 Radial†	4327.3	3598.4	4933.1	µg/L	4933.1	ppb	08:22:10
2	Mg 279.077 IEC†	823.0	818.1	5271.9	µg/L	5271.9	ppb	08:22:30
2	Na 589.592 Radial†	6950.2	6983.5	9710.2	µg/L	9710.2	ppb	08:22:10
2	Sr 421.552†	42615.1	42494.3	490.64	µg/L	490.64	ppb	08:22:10
2	Sc 361.383	1322978.5	1322978.5	102.26	%			08:23:34
2	Y 371.029	764316.3	764316.3	100.07	%			08:23:34
2	Ag 328.068†	77806.4	75409.5	505.18	µg/L	505.18	ppb	08:23:36
2	As 188.979†	274.7	272.2	518.78	µg/L	518.78	ppb	08:23:57
2	B 249.677†	42954.7	41727.0	473.18	µg/L	473.18	ppb	08:23:36
2	Ba 233.527†	36582.1	35860.3	495.94	µg/L	495.94	ppb	08:23:36
2	Be 313.107†	1189024.1	1170642.3	494.58	µg/L	494.58	ppb	08:23:34
2	Cd 226.502†	33932.6	33286.6	496.49	µg/L	496.49	ppb	08:23:36
2	Co 228.616†	17890.9	17596.5	502.31	µg/L	502.31	ppb	08:23:36
2	Cr 267.716†	28336.3	27595.9	496.52	µg/L	496.52	ppb	08:23:36
2	Cu 324.752†	79480.6	73544.7	497.81	µg/L	497.81	ppb	08:23:36
2	Mn 257.610†	177847.6	173720.1	499.50	µg/L	499.50	ppb	08:23:36
2	Mo 202.031†	4648.8	4557.7	509.19	µg/L	509.19	ppb	08:23:57
2	Ni 231.604†	17859.5	17523.3	502.70	µg/L	502.70	ppb	08:23:36
2	P 214.914†	2412.8	2424.1	2458.9	µg/L	2458.9	ppb	08:23:57
2	Pb 220.353†	2627.1	2454.8	512.56	µg/L	512.56	ppb	08:23:57

2	S 181.975 Axial†	351.6	315.7	989.66 µg/L	989.66 ppb	08:23:57
2	Sb 206.836†	815.8	793.2	493.99 µg/L	493.99 ppb	08:23:57
2	Se 196.026†	421.7	400.5	523 µg/L	523 ppb	08:23:57
2	SiO2†	31542.1	28906.6	5233.4 µg/L	5233.4 ppb	08:23:36
2	Si 251.611†	87465.2	85136.9	2445.7 µg/L	2445.7 ppb	08:23:36
2	Sn 189.927†	1281.5	1252.4	500.28 µg/L	500.28 ppb	08:23:57
2	Ti 334.940†	276937.8	269261.1	496.82 µg/L	496.82 ppb	08:23:36
2	Tl 190.801†	420.1	428.8	510.86 µg/L	510.86 ppb	08:23:57
2	U 367.007†	2183.1	1842.1	490.70 µg/L	490.70 ppb	08:23:36
2	V 292.402†	72731.4	70819.3	502.18 µg/L	502.18 ppb	08:23:36
2	Zn 213.857†	41984.2	40505.0	496.58 µg/L	496.58 ppb	08:23:36
3	Sc RADIAL	23664.5	23664.5	99.7 %		08:22:32
3	Al 396.153Radial†	2271.2	2386.7	5005.9 µg/L	5005.9 ppb	08:22:52
3	Ca 317.933Radial†	8232.8	8177.6	5153.6 µg/L	5153.6 ppb	08:22:52
3	Fe 238.204 Radial†	1707.4	1680.1	5193.7 µg/L	5193.7 ppb	08:22:52
3	K 766.490 Radial†	4268.7	3563.4	4884.8 µg/L	4884.8 ppb	08:22:32
3	Mg 279.077 IEC†	822.4	822.0	5297.5 µg/L	5297.5 ppb	08:22:52
3	Na 589.592 Radial†	6959.3	7031.0	9776.2 µg/L	9776.2 ppb	08:22:32
3	Sr 421.552†	42440.2	42553.8	491.32 µg/L	491.32 ppb	08:22:32
3	Sc 361.383	1391451.9	1391451.9	107.56 %		08:23:59
3	Y 371.029	800152.9	800152.9	104.77 %		08:23:59
3	Ag 328.068†	78916.5	72697.6	486.99 µg/L	486.99 ppb	08:24:01
3	As 188.979†	271.2	255.8	487.54 µg/L	487.54 ppb	08:24:21
3	B 249.677†	43832.7	40476.2	458.20 µg/L	458.20 ppb	08:24:01
3	Ba 233.527†	37375.1	34837.2	481.78 µg/L	481.78 ppb	08:24:01
3	Be 313.107†	1208562.8	1131591.2	478.08 µg/L	478.08 ppb	08:23:59
3	Cd 226.502†	34673.9	32342.9	482.39 µg/L	482.39 ppb	08:24:01
3	Co 228.616†	18260.5	17079.1	487.53 µg/L	487.53 ppb	08:24:01
3	Cr 267.716†	28748.5	26615.5	478.88 µg/L	478.88 ppb	08:24:01
3	Cu 324.752†	80992.8	71125.9	481.48 µg/L	481.48 ppb	08:24:01
3	Mn 257.610†	181210.4	168288.5	483.88 µg/L	483.88 ppb	08:24:01
3	Mo 202.031†	4620.6	4307.7	481.28 µg/L	481.28 ppb	08:24:21
3	Ni 231.604†	18050.0	16841.1	483.13 µg/L	483.13 ppb	08:24:01
3	P 214.914†	2420.5	2315.1	2348.0 µg/L	2348.0 ppb	08:24:21
3	Pb 220.353†	2633.4	2334.1	487.36 µg/L	487.36 ppb	08:24:21
3	S 181.975 Axial†	350.7	297.9	933.81 µg/L	933.81 ppb	08:24:21
3	Sb 206.836†	825.6	763.1	475.15 µg/L	475.15 ppb	08:24:21
3	Se 196.026†	412.5	371.7	486 µg/L	486 ppb	08:24:21
3	SiO2†	32074.3	27883.6	5048.2 µg/L	5048.2 ppb	08:24:01
3	Si 251.611†	88888.5	82251.3	2363.0 µg/L	2363.0 ppb	08:24:01
3	Sn 189.927†	1272.9	1182.8	472.53 µg/L	472.53 ppb	08:24:21
3	Ti 334.940†	282075.5	260711.3	481.05 µg/L	481.05 ppb	08:24:01
3	Tl 190.801†	418.8	407.4	485.28 µg/L	485.28 ppb	08:24:21
3	U 367.007†	2257.5	1806.2	480.40 µg/L	480.40 ppb	08:24:01
3	V 292.402†	74089.7	68582.3	486.21 µg/L	486.21 ppb	08:24:01
3	Zn 213.857†	42488.7	38953.7	477.53 µg/L	477.53 ppb	08:24:01

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1351862.1	104.50	%	2.742				2.62%
Sc RADIAL	23690.9	99.8	%	0.40				0.40%
Y 371.029	779763.3	102.10	%	2.412				2.36%
Ag 328.068†	74554.9	499.45	µg/L	10.798	499.45	ppb	10.798	2.16%
QC value within limits for Ag 328.068 Recovery = 99.89%								
Al 396.153Radial†	2402.8	5039.5	µg/L	59.87	5039.5	ppb	59.87	1.19%
QC value within limits for Al 396.153Radial Recovery = 100.79%								
As 188.979†	263.6	502.47	µg/L	15.667	502.47	ppb	15.667	3.12%
QC value within limits for As 188.979 Recovery = 100.49%								
B 249.677†	41428.8	469.53	µg/L	10.008	469.53	ppb	10.008	2.13%
QC value within limits for B 249.677 Recovery = 93.91%								
Ba 233.527†	35687.3	493.54	µg/L	10.760	493.54	ppb	10.760	2.18%
QC value within limits for Ba 233.527 Recovery = 98.71%								
Be 313.107†	1154697.1	487.84	µg/L	8.655	487.84	ppb	8.655	1.77%
QC value within limits for Be 313.107 Recovery = 97.57%								
Ca 317.933Radial†	8154.6	5139.1	µg/L	30.04	5139.1	ppb	30.04	0.58%
QC value within limits for Ca 317.933Radial Recovery = 102.78%								
Cd 226.502†	33130.4	494.15	µg/L	10.787	494.15	ppb	10.787	2.18%
QC value within limits for Cd 226.502 Recovery = 98.83%								
Co 228.616†	17449.2	498.10	µg/L	9.215	498.10	ppb	9.215	1.85%

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   QC value within limits for Co 228.616  Recovery = 99.62%
Cr 267.716†            27313.9      491.44 µg/L        10.949      491.44 ppb         10.949   2.23%
   QC value within limits for Cr 267.716  Recovery = 98.29%
Cu 324.752†            72940.3      493.73 µg/L        10.809      493.73 ppb         10.809   2.19%
   QC value within limits for Cu 324.752  Recovery = 98.75%
Fe 238.204 Radial†      1675.3      5178.5 µg/L         24.78      5178.5 ppb          24.78   0.48%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.57%
K 766.490 Radial†       3606.9      4944.5 µg/L         66.17      4944.5 ppb          66.17   1.34%
   QC value within limits for K 766.490 Radial  Recovery = 98.89%
Mg 279.077 IEC†          820.9      5290.2 µg/L         15.96      5290.2 ppb          15.96   0.30%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.80%
Mn 257.610†           172507.1      496.01 µg/L        10.816      496.01 ppb         10.816   2.18%
   QC value within limits for Mn 257.610  Recovery = 99.20%
Mo 202.031†             4453.6      497.57 µg/L        14.527      497.57 ppb         14.527   2.92%
   QC value within limits for Mo 202.031  Recovery = 99.51%
Na 589.592 Radial†      7031.4      9776.8 µg/L         66.86      9776.8 ppb          66.86   0.68%
   QC value within limits for Na 589.592 Radial  Recovery = 97.77%
Ni 231.604†            17322.6      496.94 µg/L        12.019      496.94 ppb         12.019   2.42%
   QC value within limits for Ni 231.604  Recovery = 99.39%
P 214.914†              2388.0      2422.1 µg/L         64.22      2422.1 ppb          64.22   2.65%
   QC value within limits for P 214.914  Recovery = 96.88%
Pb 220.353†             2408.3      502.86 µg/L        13.565      502.86 ppb         13.565   2.70%
   QC value within limits for Pb 220.353  Recovery = 100.57%
S 181.975 Axial†         309.5      970.06 µg/L        31.425      970.06 ppb         31.425   3.24%
   QC value within limits for S 181.975 Axial  Recovery = 97.01%
Sb 206.836†              783.0      487.60 µg/L        10.783      487.60 ppb         10.783   2.21%
   QC value within limits for Sb 206.836  Recovery = 97.52%
Se 196.026†              387.2         506 µg/L          18.9         506 ppb           18.9   3.74%
   QC value within limits for Se 196.026  Recovery = 101.12%
SiO2†                  28626.8      5182.7 µg/L        117.70      5182.7 ppb         117.70   2.27%
   QC value within limits for SiO2  Recovery = 96.92%
Si 251.611†            84389.7      2424.4 µg/L         53.96      2424.4 ppb          53.96   2.23%
   QC value within limits for Si 251.611  Recovery = 96.97%
Sn 189.927†             1226.9      490.14 µg/L        15.312      490.14 ppb         15.312   3.12%
   QC value within limits for Sn 189.927  Recovery = 98.03%
Sr 421.552†            42515.2      490.88 µg/L         0.387      490.88 ppb          0.387   0.08%
   QC value within limits for Sr 421.552  Recovery = 98.18%
Ti 334.940†           267137.3      492.91 µg/L        10.461      492.91 ppb         10.461   2.12%
   QC value within limits for Ti 334.940  Recovery = 98.58%
Tl 190.801†              420.9      501.48 µg/L        14.089      501.48 ppb         14.089   2.81%
   QC value within limits for Tl 190.801  Recovery = 100.30%
U 367.007†              1826.9      486.26 µg/L         5.297      486.26 ppb          5.297   1.09%
   QC value within limits for U 367.007  Recovery = 97.25%
V 292.402†             70242.2      498.01 µg/L        10.365      498.01 ppb         10.365   2.08%
   QC value within limits for V 292.402  Recovery = 99.60%
Zn 213.857†            40098.3      491.59 µg/L        12.343      491.59 ppb         12.343   2.51%
   QC value within limits for Zn 213.857  Recovery = 98.32%
All analyte(s) passed QC.
```

Sequence No.: 15 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 08:24:28**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22481.9	22481.9	94.7	%			08:25:15
1	Al 396.153Radial†	-99.6	2.8	5.8048	µg/L	5.8048	ppb	08:25:15
1	Ca 317.933Radial†	83.4	5.7	3.5572	µg/L	3.5572	ppb	08:25:35
1	Fe 238.204 Radial†	31.7	0.5	1.5462	µg/L	1.5462	ppb	08:25:35
1	K 766.490 Radial†	737.4	59.4	81.289	µg/L	81.289	ppb	08:25:15
1	Mg 279.077 IEC†	6.0	3.2	20.730	µg/L	20.730	ppb	08:25:35
1	Na 589.592 Radial†	-75.3	-30.9	-42.984	µg/L	-42.984	ppb	08:25:15
1	Sr 421.552†	32.6	7.6	0.0877	µg/L	0.0877	ppb	08:25:15
1	Sc 361.383	1328669.5	1328669.5	102.70	%			08:27:13
1	Y 371.029	782691.3	782691.3	102.48	%			08:27:13
1	Ag 328.068†	798.3	102.1	0.6880	µg/L	0.6880	ppb	08:27:15
1	As 188.979†	-6.5	-2.7	-5.0995	µg/L	-5.0995	ppb	08:27:35
1	B 249.677†	453.9	164.7	1.9062	µg/L	1.9062	ppb	08:27:15
1	Ba 233.527†	-100.7	-10.3	-0.1382	µg/L	-0.1382	ppb	08:27:35
1	Be 313.107†	-8382.3	-233.7	-0.0988	µg/L	-0.0988	ppb	08:27:15
1	Cd 226.502†	-97.6	9.7	0.1448	µg/L	0.1448	ppb	08:27:35
1	Co 228.616†	-101.8	2.3	0.0650	µg/L	0.0650	ppb	08:27:35
1	Cr 267.716†	129.0	12.1	0.2193	µg/L	0.2193	ppb	08:27:35
1	Cu 324.752†	4362.5	70.5	0.4756	µg/L	0.4756	ppb	08:27:15
1	Mn 257.610†	209.0	11.3	0.0319	µg/L	0.0319	ppb	08:27:35
1	Mo 202.031†	-12.0	0.0	0.0033	µg/L	0.0033	ppb	08:27:35
1	Ni 231.604†	-64.8	-4.1	-0.1183	µg/L	-0.1183	ppb	08:27:35
1	P 214.914†	-76.2	-9.5	-9.7295	µg/L	-9.7295	ppb	08:27:35
1	Pb 220.353†	112.5	-4.7	-0.9806	µg/L	-0.9806	ppb	08:27:35
1	S 181.975 Axial†	29.3	0.5	1.4659	µg/L	1.4659	ppb	08:27:35
1	Sb 206.836†	4.2	-0.4	-0.2767	µg/L	-0.2767	ppb	08:27:35
1	Se 196.026†	11.8	-0.3	-0.384	µg/L	-0.384	ppb	08:27:35
1	SiO2†	2005.6	15.3	2.7635	µg/L	2.7635	ppb	08:27:15
1	Si 251.611†	440.0	35.5	1.0224	µg/L	1.0224	ppb	08:27:35
1	Sn 189.927†	-1.8	-2.5	-1.0080	µg/L	-1.0080	ppb	08:27:35
1	Ti 334.940†	1823.2	226.4	0.4184	µg/L	0.4184	ppb	08:27:15
1	Tl 190.801†	-14.9	3.5	4.2266	µg/L	4.2266	ppb	08:27:35
1	U 367.007†	296.3	-4.2	-1.2114	µg/L	-1.2114	ppb	08:27:15
1	V 292.402†	533.8	217.0	1.5140	µg/L	1.5140	ppb	08:27:15
1	Zn 213.857†	565.8	0.6	0.0078	µg/L	0.0078	ppb	08:27:35
2	Sc RADIAL	23195.7	23195.7	97.7	%			08:25:55
2	Al 396.153Radial†	-94.2	11.6	24.386	µg/L	24.386	ppb	08:25:55
2	Ca 317.933Radial†	86.6	6.2	3.8983	µg/L	3.8983	ppb	08:26:15
2	Fe 238.204 Radial†	31.7	-0.5	-1.5840	µg/L	-1.5840	ppb	08:26:15
2	K 766.490 Radial†	781.1	80.1	109.64	µg/L	109.64	ppb	08:25:55
2	Mg 279.077 IEC†	1.0	-2.1	-13.568	µg/L	-13.568	ppb	08:26:15
2	Na 589.592 Radial†	-44.1	3.5	4.8098	µg/L	4.8098	ppb	08:25:55
2	Sr 421.552†	31.3	5.2	0.0596	µg/L	0.0596	ppb	08:25:55
2	Sc 361.383	1330513.6	1330513.6	102.85	%			08:27:37
2	Y 371.029	784432.2	784432.2	102.71	%			08:27:37
2	Ag 328.068†	747.6	51.7	0.3376	µg/L	0.3376	ppb	08:27:39
2	As 188.979†	-5.1	-1.3	-2.4004	µg/L	-2.4004	ppb	08:27:59
2	B 249.677†	327.5	41.2	0.4488	µg/L	0.4488	ppb	08:27:39
2	Ba 233.527†	-96.7	-6.3	-0.0885	µg/L	-0.0885	ppb	08:27:59
2	Be 313.107†	-8618.1	-451.6	-0.1908	µg/L	-0.1908	ppb	08:27:39
2	Cd 226.502†	-115.0	-7.0	-0.1042	µg/L	-0.1042	ppb	08:27:59
2	Co 228.616†	-92.9	11.2	0.3196	µg/L	0.3196	ppb	08:27:59
2	Cr 267.716†	111.5	-5.0	-0.0947	µg/L	-0.0947	ppb	08:27:59
2	Cu 324.752†	4351.2	53.6	0.3652	µg/L	0.3652	ppb	08:27:39
2	Mn 257.610†	222.3	24.0	0.0695	µg/L	0.0695	ppb	08:27:59
2	Mo 202.031†	-4.0	7.8	0.8692	µg/L	0.8692	ppb	08:27:59
2	Ni 231.604†	-48.7	11.6	0.3333	µg/L	0.3333	ppb	08:27:59
2	P 214.914†	-76.5	-9.7	-9.9049	µg/L	-9.9049	ppb	08:27:59
2	Pb 220.353†	98.8	-18.2	-3.7902	µg/L	-3.7902	ppb	08:27:59

2	S 181.975 Axial†	31.5	2.6	8.1102	µg/L	8.1102	ppb	08:27:59
2	Sb 206.836†	0.1	-4.4	-2.7625	µg/L	-2.7625	ppb	08:27:59
2	Se 196.026†	14.5	2.2	2.92	µg/L	2.92	ppb	08:27:59
2	SiO2†	1994.7	2.0	0.3524	µg/L	0.3524	ppb	08:27:39
2	Si 251.611†	405.0	0.8	0.0121	µg/L	0.0121	ppb	08:27:59
2	Sn 189.927†	-4.4	-5.0	-1.9947	µg/L	-1.9947	ppb	08:27:59
2	Ti 334.940†	1598.0	4.9	0.0052	µg/L	0.0052	ppb	08:27:39
2	Tl 190.801†	-13.2	5.2	6.2106	µg/L	6.2106	ppb	08:27:59
2	U 367.007†	330.4	28.5	8.0803	µg/L	8.0803	ppb	08:27:39
2	V 292.402†	239.9	-69.5	-0.4701	µg/L	-0.4701	ppb	08:27:39
2	Zn 213.857†	583.7	17.3	0.2115	µg/L	0.2115	ppb	08:27:59
3	Sc RADIAL	23321.2	23321.2	98.2	%			08:26:35
3	Al 396.153Radial†	-97.6	8.6	18.075	µg/L	18.075	ppb	08:26:35
3	Ca 317.933Radial†	93.7	12.9	8.1487	µg/L	8.1487	ppb	08:26:55
3	Fe 238.204 Radial†	32.4	0.0	0.0557	µg/L	0.0557	ppb	08:26:55
3	K 766.490 Radial†	773.0	67.6	92.475	µg/L	92.475	ppb	08:26:35
3	Mg 279.077 IEC†	2.9	-0.2	-1.2639	µg/L	-1.2639	ppb	08:26:55
3	Na 589.592 Radial†	-30.2	17.9	24.950	µg/L	24.950	ppb	08:26:35
3	Sr 421.552†	36.2	10.0	0.1158	µg/L	0.1158	ppb	08:26:35
3	Sc 361.383	1332590.2	1332590.2	103.01	%			08:28:01
3	Y 371.029	785118.5	785118.5	102.80	%			08:28:01
3	Ag 328.068†	671.9	-22.9	-0.1763	µg/L	-0.1763	ppb	08:28:03
3	As 188.979†	-5.2	-1.4	-2.5839	µg/L	-2.5839	ppb	08:28:23
3	B 249.677†	497.9	206.1	2.3960	µg/L	2.3960	ppb	08:28:03
3	Ba 233.527†	-100.5	-9.9	-0.1378	µg/L	-0.1378	ppb	08:28:23
3	Be 313.107†	-8380.0	-207.4	-0.0876	µg/L	-0.0876	ppb	08:28:03
3	Cd 226.502†	-112.9	-4.8	-0.0714	µg/L	-0.0714	ppb	08:28:23
3	Co 228.616†	-105.8	-1.2	-0.0346	µg/L	-0.0346	ppb	08:28:23
3	Cr 267.716†	123.9	6.9	0.1082	µg/L	0.1082	ppb	08:28:23
3	Cu 324.752†	4464.8	157.2	1.0728	µg/L	1.0728	ppb	08:28:03
3	Mn 257.610†	215.6	17.1	0.0493	µg/L	0.0493	ppb	08:28:23
3	Mo 202.031†	-7.8	4.1	0.4575	µg/L	0.4575	ppb	08:28:23
3	Ni 231.604†	-52.9	7.7	0.2195	µg/L	0.2195	ppb	08:28:23
3	P 214.914†	-67.5	-0.9	-0.9250	µg/L	-0.9250	ppb	08:28:23
3	Pb 220.353†	104.5	-12.8	-2.6774	µg/L	-2.6774	ppb	08:28:23
3	S 181.975 Axial†	37.0	7.8	24.548	µg/L	24.548	ppb	08:28:23
3	Sb 206.836†	3.9	-0.7	-0.4636	µg/L	-0.4636	ppb	08:28:23
3	Se 196.026†	10.9	-1.3	-1.68	µg/L	-1.68	ppb	08:28:23
3	SiO2†	1988.9	-6.7	-1.2139	µg/L	-1.2139	ppb	08:28:03
3	Si 251.611†	453.3	47.2	1.3523	µg/L	1.3523	ppb	08:28:23
3	Sn 189.927†	-0.9	-1.6	-0.6491	µg/L	-0.6491	ppb	08:28:23
3	Ti 334.940†	1558.2	-36.1	-0.0785	µg/L	-0.0785	ppb	08:28:03
3	Tl 190.801†	-9.6	8.7	10.456	µg/L	10.456	ppb	08:28:23
3	U 367.007†	388.6	84.5	23.899	µg/L	23.899	ppb	08:28:03
3	V 292.402†	217.9	-91.3	-0.6172	µg/L	-0.6172	ppb	08:28:03
3	Zn 213.857†	580.5	13.4	0.1628	µg/L	0.1628	ppb	08:28:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1330591.1	102.85	%	0.152				0.15%
Sc RADIAL	22999.6	96.9	%	1.91				1.97%
Y 371.029	784080.7	102.66	%	0.164				0.16%
Ag 328.068†	43.6	0.2831	µg/L	0.43471	0.2831	ppb	0.43471	153.56%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	7.7	16.089	µg/L	9.4484	16.089	ppb	9.4484	58.73%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.8	-3.3613	µg/L	1.50818	-3.3613	ppb	1.50818	44.87%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	137.3	1.5837	µg/L	1.01287	1.5837	ppb	1.01287	63.96%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-8.8	-0.1215	µg/L	0.02858	-0.1215	ppb	0.02858	23.53%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-297.6	-0.1257	µg/L	0.05663	-0.1257	ppb	0.05663	45.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.3	5.2014	µg/L	2.55816	5.2014	ppb	2.55816	49.18%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-0.7	-0.0103	µg/L	0.13533	-0.0103	ppb	0.13533	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	4.1	0.1166	µg/L	0.18266	0.1166	ppb	0.18266	156.61%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                4.7      0.0776 µg/L       0.15919      0.0776 ppb        0.15919 205.12%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               93.8      0.6379 µg/L       0.38069      0.6379 ppb        0.38069  59.68%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         0.0      0.0059 µg/L       1.56569      0.0059 ppb        1.56569 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         69.0      94.469 µg/L       14.2807      94.469 ppb        14.2807  15.12%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            0.3      1.9661 µg/L      17.37545      1.9661 ppb       17.37545 883.75%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               17.5      0.0503 µg/L       0.01878      0.0503 ppb        0.01878  37.38%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                4.0      0.4434 µg/L       0.43312      0.4434 ppb        0.43312  97.69%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -3.2     -4.4081 µg/L      34.89279     -4.4081 ppb       34.89279 791.56%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                5.0      0.1448 µg/L       0.23487      0.1448 ppb        0.23487 162.15%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -6.7     -6.8531 µg/L       5.13466     -6.8531 ppb        5.13466  74.92%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -11.9     -2.4827 µg/L       1.41486     -2.4827 ppb        1.41486  56.99%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           3.6      11.375 µg/L       11.8821      11.375 ppb        11.8821 104.46%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -1.9     -1.1676 µg/L       1.38437     -1.1676 ppb        1.38437 118.57%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.2       0.288 µg/L        2.3726       0.288 ppb         2.3726 822.72%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      3.5      0.6340 µg/L       2.00360      0.6340 ppb        2.00360 316.03%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               27.8      0.7956 µg/L       0.69831      0.7956 ppb        0.69831  87.77%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -3.1     -1.2172 µg/L       0.69679     -1.2172 ppb        0.69679  57.24%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                7.6      0.0877 µg/L       0.02810      0.0877 ppb        0.02810  32.06%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               65.0      0.1150 µg/L       0.26608      0.1150 ppb        0.26608 231.31%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                5.8      6.9645 µg/L       3.18262      6.9645 ppb        3.18262  45.70%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                36.3      10.256 µg/L       12.6961      10.256 ppb        12.6961 123.79%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                18.7      0.1422 µg/L       1.19025      0.1422 ppb        1.19025 836.87%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               10.4      0.1274 µg/L       0.10636      0.1274 ppb        0.10636  83.50%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 19 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 08:40:33**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	24005.8	24005.8	101	%			08:41:06
1	Al 396.153Radial†	2288.0	2370.9	4972.6	µg/L	4972.6	ppb	08:41:26
1	Ca 317.933Radial†	8204.9	8032.5	5062.1	µg/L	5062.1	ppb	08:41:26
1	Fe 238.204 Radial†	1708.8	1657.1	5122.1	µg/L	5122.1	ppb	08:41:26
1	K 766.490 Radial†	4275.6	3509.4	4811.1	µg/L	4811.1	ppb	08:41:06
1	Mg 279.077 IEC†	818.7	806.6	5198.4	µg/L	5198.4	ppb	08:41:26
1	Na 589.592 Radial†	7001.1	6973.1	9695.7	µg/L	9695.7	ppb	08:41:06
1	Sr 421.552†	42968.5	42471.0	490.37	µg/L	490.37	ppb	08:41:06
1	Sc 361.383	1352881.1	1352881.1	104.57	%			08:42:28
1	Y 371.029	781020.8	781020.8	102.26	%			08:42:28
1	Ag 328.068†	78372.7	74269.4	497.54	µg/L	497.54	ppb	08:42:30
1	As 188.979†	276.0	267.6	509.92	µg/L	509.92	ppb	08:42:50
1	B 249.677†	43276.3	41106.1	465.97	µg/L	465.97	ppb	08:42:30
1	Ba 233.527†	36902.5	35376.0	489.24	µg/L	489.24	ppb	08:42:30
1	Be 313.107†	1202861.3	1158175.0	489.31	µg/L	489.31	ppb	08:42:28
1	Cd 226.502†	34144.1	32755.4	488.56	µg/L	488.56	ppb	08:42:30
1	Co 228.616†	18013.4	17326.9	494.61	µg/L	494.61	ppb	08:42:30
1	Cr 267.716†	28419.9	27063.3	486.94	µg/L	486.94	ppb	08:42:30
1	Cu 324.752†	80287.1	72598.0	491.41	µg/L	491.41	ppb	08:42:30
1	Mn 257.610†	179533.4	171488.2	493.08	µg/L	493.08	ppb	08:42:30
1	Mo 202.031†	4611.0	4421.0	493.93	µg/L	493.93	ppb	08:42:50
1	Ni 231.604†	17968.0	17241.0	494.60	µg/L	494.60	ppb	08:42:30
1	P 214.914†	2409.7	2369.0	2402.8	µg/L	2402.8	ppb	08:42:50
1	Pb 220.353†	2603.0	2374.9	495.90	µg/L	495.90	ppb	08:42:50
1	S 181.975 Axial†	357.7	313.9	984.23	µg/L	984.23	ppb	08:42:50
1	Sb 206.836†	815.0	774.9	482.53	µg/L	482.53	ppb	08:42:50
1	Se 196.026†	417.4	387.3	506	µg/L	506	ppb	08:42:50
1	SiO2†	31740.5	28414.6	5144.3	µg/L	5144.3	ppb	08:42:30
1	Si 251.611†	88019.8	83776.7	2406.7	µg/L	2406.7	ppb	08:42:30
1	Sn 189.927†	1271.9	1215.6	485.59	µg/L	485.59	ppb	08:42:50
1	Ti 334.940†	279625.8	265845.8	490.53	µg/L	490.53	ppb	08:42:30
1	Tl 190.801†	425.8	425.1	506.56	µg/L	506.56	ppb	08:42:50
1	U 367.007†	2161.3	1774.0	471.65	µg/L	471.65	ppb	08:42:30
1	V 292.402†	73315.7	69806.0	494.90	µg/L	494.90	ppb	08:42:30
1	Zn 213.857†	42234.5	39836.9	488.38	µg/L	488.38	ppb	08:42:30
2	Sc RADIAL	23862.2	23862.2	101	%			08:41:28
2	Al 396.153Radial†	2235.3	2332.1	4891.1	µg/L	4891.1	ppb	08:41:48
2	Ca 317.933Radial†	8149.3	8026.0	5058.0	µg/L	5058.0	ppb	08:41:48
2	Fe 238.204 Radial†	1691.9	1650.4	5101.4	µg/L	5101.4	ppb	08:41:48
2	K 766.490 Radial†	4329.1	3588.1	4918.8	µg/L	4918.8	ppb	08:41:28
2	Mg 279.077 IEC†	818.8	811.6	5230.2	µg/L	5230.2	ppb	08:41:48
2	Na 589.592 Radial†	6873.0	6887.2	9576.3	µg/L	9576.3	ppb	08:41:28
2	Sr 421.552†	43187.6	42944.6	495.84	µg/L	495.84	ppb	08:41:28
2	Sc 361.383	1363796.8	1363796.8	105.42	%			08:42:52
2	Y 371.029	787400.8	787400.8	103.10	%			08:42:52
2	Ag 328.068†	79253.4	74505.0	499.12	µg/L	499.12	ppb	08:42:54
2	As 188.979†	273.9	263.5	502.20	µg/L	502.20	ppb	08:43:14
2	B 249.677†	44123.1	41578.1	471.58	µg/L	471.58	ppb	08:42:54
2	Ba 233.527†	37437.6	35601.2	492.35	µg/L	492.35	ppb	08:42:54
2	Be 313.107†	1218189.8	1163509.2	491.57	µg/L	491.57	ppb	08:42:52
2	Cd 226.502†	34772.5	33090.1	493.56	µg/L	493.56	ppb	08:42:54
2	Co 228.616†	18201.6	17367.6	495.76	µg/L	495.76	ppb	08:42:54
2	Cr 267.716†	28851.1	27254.9	490.39	µg/L	490.39	ppb	08:42:54
2	Cu 324.752†	81338.5	72980.9	493.99	µg/L	493.99	ppb	08:42:54
2	Mn 257.610†	182196.8	172640.7	496.40	µg/L	496.40	ppb	08:42:54
2	Mo 202.031†	4586.7	4362.6	487.41	µg/L	487.41	ppb	08:43:14
2	Ni 231.604†	18208.2	17331.4	497.19	µg/L	497.19	ppb	08:42:54
2	P 214.914†	2384.2	2326.4	2359.4	µg/L	2359.4	ppb	08:43:14
2	Pb 220.353†	2589.3	2342.0	489.03	µg/L	489.03	ppb	08:43:14

2	S 181.975 Axial†	346.6	300.7	942.62 µg/L	942.62 ppb		08:43:14
2	Sb 206.836†	805.8	759.8	473.09 µg/L	473.09 ppb		08:43:14
2	Se 196.026†	400.3	367.9	481 µg/L	481 ppb		08:43:14
2	SiO2†	32313.1	28714.8	5198.6 µg/L	5198.6 ppb		08:42:54
2	Si 251.611†	89442.6	84452.8	2426.3 µg/L	2426.3 ppb		08:42:54
2	Sn 189.927†	1254.8	1189.6	475.23 µg/L	475.23 ppb		08:43:14
2	Ti 334.940†	283581.9	267458.4	493.50 µg/L	493.50 ppb		08:42:54
2	Tl 190.801†	413.7	410.4	488.82 µg/L	488.82 ppb		08:43:14
2	U 367.007†	2192.3	1786.9	475.38 µg/L	475.38 ppb		08:42:54
2	V 292.402†	74223.8	70106.3	496.92 µg/L	496.92 ppb		08:42:54
2	Zn 213.857†	42851.9	40099.3	491.61 µg/L	491.61 ppb		08:42:54
3	Sc RADIAL	23966.6	23966.6	101 %			08:41:50
3	Al 396.153Radial†	2200.4	2287.8	4798.1 µg/L	4798.1 ppb		08:42:10
3	Ca 317.933Radial†	8113.8	7955.6	5013.7 µg/L	5013.7 ppb		08:42:10
3	Fe 238.204 Radial†	1685.3	1636.6	5058.9 µg/L	5058.9 ppb		08:42:10
3	K 766.490 Radial†	4405.7	3645.2	4996.9 µg/L	4996.9 ppb		08:41:50
3	Mg 279.077 IEC†	814.1	803.4	5177.2 µg/L	5177.2 ppb		08:42:10
3	Na 589.592 Radial†	6864.6	6849.1	9523.3 µg/L	9523.3 ppb		08:41:50
3	Sr 421.552†	43141.3	42711.6	493.15 µg/L	493.15 ppb		08:41:50
3	Sc 361.383	1338129.3	1338129.3	103.43 %			08:43:17
3	Y 371.029	772680.9	772680.9	101.17 %			08:43:17
3	Ag 328.068†	76462.0	73248.3	490.71 µg/L	490.71 ppb		08:43:19
3	As 188.979†	273.7	268.3	511.10 µg/L	511.10 ppb		08:43:39
3	B 249.677†	42181.1	40503.5	458.98 µg/L	458.98 ppb		08:43:19
3	Ba 233.527†	36059.1	34949.7	483.34 µg/L	483.34 ppb		08:43:19
3	Be 313.107†	1172709.3	1141704.5	482.35 µg/L	482.35 ppb		08:43:17
3	Cd 226.502†	33169.1	32172.7	479.87 µg/L	479.87 ppb		08:43:19
3	Co 228.616†	17467.4	16988.9	484.97 µg/L	484.97 ppb		08:43:19
3	Cr 267.716†	27767.6	26732.3	480.98 µg/L	480.98 ppb		08:43:19
3	Cu 324.752†	78704.3	71914.1	486.77 µg/L	486.77 ppb		08:43:19
3	Mn 257.610†	175099.3	169094.0	486.20 µg/L	486.20 ppb		08:43:19
3	Mo 202.031†	4614.5	4473.0	499.73 µg/L	499.73 ppb		08:43:39
3	Ni 231.604†	17379.4	16861.5	483.71 µg/L	483.71 ppb		08:43:19
3	P 214.914†	2413.5	2398.0	2432.5 µg/L	2432.5 ppb		08:43:39
3	Pb 220.353†	2613.4	2412.4	503.71 µg/L	503.71 ppb		08:43:39
3	S 181.975 Axial†	345.6	306.0	959.32 µg/L	959.32 ppb		08:43:39
3	Sb 206.836†	807.2	775.9	483.28 µg/L	483.28 ppb		08:43:39
3	Se 196.026†	407.2	381.9	499 µg/L	499 ppb		08:43:39
3	SiO2†	31124.1	28153.3	5097.0 µg/L	5097.0 ppb		08:43:19
3	Si 251.611†	85867.8	82624.1	2373.5 µg/L	2373.5 ppb		08:43:19
3	Sn 189.927†	1264.1	1221.4	487.93 µg/L	487.93 ppb		08:43:39
3	Ti 334.940†	273380.5	262755.6	484.83 µg/L	484.83 ppb		08:43:19
3	Tl 190.801†	426.1	429.9	512.40 µg/L	512.40 ppb		08:43:39
3	U 367.007†	2130.7	1767.3	470.12 µg/L	470.12 ppb		08:43:19
3	V 292.402†	71553.3	68875.0	488.45 µg/L	488.45 ppb		08:43:19
3	Zn 213.857†	40930.3	39021.2	478.38 µg/L	478.38 ppb		08:43:19

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1351602.4	104.48	%	0.996				0.95%
Sc RADIAL	23944.9	101	%	0.3				0.31%
Y 371.029	780367.5	102.18	%	0.966				0.95%
Ag 328.068†	74007.6	495.79	µg/L	4.471	495.79	ppb	4.471	0.90%
QC value within limits for Ag 328.068 Recovery = 99.16%								
Al 396.153Radial†	2330.3	4887.2	µg/L	87.31	4887.2	ppb	87.31	1.79%
QC value within limits for Al 396.153Radial Recovery = 97.74%								
As 188.979†	266.5	507.74	µg/L	4.835	507.74	ppb	4.835	0.95%
QC value within limits for As 188.979 Recovery = 101.55%								
B 249.677†	41062.6	465.51	µg/L	6.313	465.51	ppb	6.313	1.36%
QC value within limits for B 249.677 Recovery = 93.10%								
Ba 233.527†	35309.0	488.31	µg/L	4.576	488.31	ppb	4.576	0.94%
QC value within limits for Ba 233.527 Recovery = 97.66%								
Be 313.107†	1154462.9	487.74	µg/L	4.802	487.74	ppb	4.802	0.98%
QC value within limits for Be 313.107 Recovery = 97.55%								
Ca 317.933Radial†	8004.7	5044.6	µg/L	26.88	5044.6	ppb	26.88	0.53%
QC value within limits for Ca 317.933Radial Recovery = 100.89%								
Cd 226.502†	32672.8	487.33	µg/L	6.931	487.33	ppb	6.931	1.42%
QC value within limits for Cd 226.502 Recovery = 97.47%								
Co 228.616†	17227.8	491.78	µg/L	5.925	491.78	ppb	5.925	1.20%

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   QC value within limits for Co 228.616  Recovery = 98.36%
Cr 267.716†            27016.8      486.10 µg/L         4.758      486.10 ppb          4.758   0.98%
   QC value within limits for Cr 267.716  Recovery = 97.22%
Cu 324.752†            72497.6      490.72 µg/L         3.661      490.72 ppb          3.661   0.75%
   QC value within limits for Cu 324.752  Recovery = 98.14%
Fe 238.204 Radial†      1648.0      5094.1 µg/L         32.24      5094.1 ppb          32.24   0.63%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.88%
K 766.490 Radial†       3580.9      4908.9 µg/L         93.30      4908.9 ppb          93.30   1.90%
   QC value within limits for K 766.490 Radial  Recovery = 98.18%
Mg 279.077 IEC†          807.2      5201.9 µg/L         26.69      5201.9 ppb          26.69   0.51%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.04%
Mn 257.610†           171074.3      491.89 µg/L         5.202      491.89 ppb          5.202   1.06%
   QC value within limits for Mn 257.610  Recovery = 98.38%
Mo 202.031†             4418.9      493.69 µg/L         6.160      493.69 ppb          6.160   1.25%
   QC value within limits for Mo 202.031  Recovery = 98.74%
Na 589.592 Radial†      6903.1      9598.4 µg/L         88.28      9598.4 ppb          88.28   0.92%
   QC value within limits for Na 589.592 Radial  Recovery = 95.98%
Ni 231.604†            17144.6      491.84 µg/L         7.154      491.84 ppb          7.154   1.45%
   QC value within limits for Ni 231.604  Recovery = 98.37%
P 214.914†              2364.5      2398.2 µg/L         36.77      2398.2 ppb          36.77   1.53%
   QC value within limits for P 214.914  Recovery = 95.93%
Pb 220.353†             2376.4      496.21 µg/L         7.349      496.21 ppb          7.349   1.48%
   QC value within limits for Pb 220.353  Recovery = 99.24%
S 181.975 Axial†         306.9      962.06 µg/L        20.935      962.06 ppb         20.935   2.18%
   QC value within limits for S 181.975 Axial  Recovery = 96.21%
Sb 206.836†              770.2      479.63 µg/L         5.675      479.63 ppb          5.675   1.18%
   QC value within limits for Sb 206.836  Recovery = 95.93%
Se 196.026†              379.0         495 µg/L          13.0         495 ppb           13.0   2.63%
   QC value within limits for Se 196.026  Recovery = 99.00%
SiO2†                  28427.6      5146.6 µg/L         50.87      5146.6 ppb          50.87   0.99%
   QC value within limits for SiO2  Recovery = 96.24%
Si 251.611†            83617.9      2402.2 µg/L         26.71      2402.2 ppb          26.71   1.11%
   QC value within limits for Si 251.611  Recovery = 96.09%
Sn 189.927†             1208.9      482.91 µg/L         6.761      482.91 ppb          6.761   1.40%
   QC value within limits for Sn 189.927  Recovery = 96.58%
Sr 421.552†            42709.1      493.12 µg/L         2.735      493.12 ppb          2.735   0.55%
   QC value within limits for Sr 421.552  Recovery = 98.62%
Ti 334.940†           265353.3      489.62 µg/L         4.409      489.62 ppb          4.409   0.90%
   QC value within limits for Ti 334.940  Recovery = 97.92%
Tl 190.801†              421.8      502.59 µg/L        12.279      502.59 ppb         12.279   2.44%
   QC value within limits for Tl 190.801  Recovery = 100.52%
U 367.007†              1776.1      472.39 µg/L         2.706      472.39 ppb          2.706   0.57%
   QC value within limits for U 367.007  Recovery = 94.48%
V 292.402†             69595.8      493.42 µg/L         4.422      493.42 ppb          4.422   0.90%
   QC value within limits for V 292.402  Recovery = 98.68%
Zn 213.857†            39652.4      486.12 µg/L         6.898      486.12 ppb          6.898   1.42%
   QC value within limits for Zn 213.857  Recovery = 97.22%
All analyte(s) passed QC.
```

Sequence No.: 20 **Autosampler Location: 109**
Sample ID: PQL **Date Collected: 11/6/2013 08:43:47**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23349.2	23349.2	98.3	%			08:44:37
1	Al 396.153Radial†	0.0	108.0	226.69	µg/L	226.69	ppb	08:44:37
1	Ca 317.933Radial†	419.9	344.5	217.06	µg/L	217.06	ppb	08:44:57
1	Fe 238.204 Radial†	64.9	32.9	101.97	µg/L	101.97	ppb	08:44:57
1	K 766.490 Radial†	833.1	127.8	174.92	µg/L	174.92	ppb	08:44:37
1	Mg 279.077 IEC†	66.4	64.4	414.70	µg/L	414.70	ppb	08:44:57
1	Na 589.592 Radial†	156.3	207.6	288.65	µg/L	288.65	ppb	08:44:37
1	Sr 421.552†	458.6	439.5	5.0735	µg/L	5.0735	ppb	08:44:37
1	Sc 361.383	1342162.5	1342162.5	103.75	%			08:46:35
1	Y 371.029	789774.2	789774.2	103.41	%			08:46:35
1	Ag 328.068†	1613.6	880.2	5.8708	µg/L	5.8708	ppb	08:46:37
1	As 188.979†	12.9	16.1	30.327	µg/L	30.327	ppb	08:46:57
1	B 249.677†	4457.1	4018.9	47.027	µg/L	47.027	ppb	08:46:37
1	Ba 233.527†	289.8	367.0	5.0772	µg/L	5.0772	ppb	08:46:57
1	Be 313.107†	3951.1	11736.4	4.9585	µg/L	4.9585	ppb	08:46:37
1	Cd 226.502†	252.8	348.5	5.1918	µg/L	5.1918	ppb	08:46:57
1	Co 228.616†	90.2	188.4	5.3842	µg/L	5.3842	ppb	08:46:57
1	Cr 267.716†	410.3	282.0	5.0527	µg/L	5.0527	ppb	08:46:57
1	Cu 324.752†	5747.1	1362.3	9.2312	µg/L	9.2312	ppb	08:46:37
1	Mn 257.610†	3896.5	3563.6	10.236	µg/L	10.236	ppb	08:46:57
1	Mo 202.031†	90.3	98.8	11.046	µg/L	11.046	ppb	08:46:57
1	Ni 231.604†	127.2	181.7	5.2110	µg/L	5.2110	ppb	08:46:57
1	P 214.914†	73.9	135.9	138.44	µg/L	138.44	ppb	08:46:57
1	Pb 220.353†	164.3	44.1	9.1972	µg/L	9.1972	ppb	08:46:57
1	S 181.975 Axial†	67.7	37.2	116.98	µg/L	116.98	ppb	08:46:57
1	Sb 206.836†	19.3	14.1	8.8344	µg/L	8.8344	ppb	08:46:57
1	Se 196.026†	40.5	27.3	35.5	µg/L	35.5	ppb	08:46:57
1	SiO2†	3137.6	1086.7	196.48	µg/L	196.48	ppb	08:46:37
1	Si 251.611†	3897.0	3363.3	96.728	µg/L	96.728	ppb	08:46:37
1	Sn 189.927†	24.9	23.2	9.2930	µg/L	9.2930	ppb	08:46:57
1	Ti 334.940†	4278.0	2574.7	4.7413	µg/L	4.7413	ppb	08:46:37
1	Tl 190.801†	4.6	22.5	26.970	µg/L	26.970	ppb	08:46:57
1	U 367.007†	427.3	119.1	33.068	µg/L	33.068	ppb	08:46:37
1	V 292.402†	1179.9	834.5	6.0004	µg/L	6.0004	ppb	08:46:37
1	Zn 213.857†	1419.8	818.3	10.052	µg/L	10.052	ppb	08:46:57
2	Sc RADIAL	23219.7	23219.7	97.8	%			08:45:17
2	Al 396.153Radial†	-12.3	95.5	200.29	µg/L	200.29	ppb	08:45:17
2	Ca 317.933Radial†	412.3	339.2	213.73	µg/L	213.73	ppb	08:45:37
2	Fe 238.204 Radial†	66.9	35.4	109.44	µg/L	109.44	ppb	08:45:37
2	K 766.490 Radial†	847.4	147.1	201.43	µg/L	201.43	ppb	08:45:17
2	Mg 279.077 IEC†	49.2	47.2	304.30	µg/L	304.30	ppb	08:45:37
2	Na 589.592 Radial†	154.1	206.2	286.75	µg/L	286.75	ppb	08:45:17
2	Sr 421.552†	473.0	456.8	5.2734	µg/L	5.2734	ppb	08:45:17
2	Sc 361.383	1327838.4	1327838.4	102.64	%			08:46:59
2	Y 371.029	781827.7	781827.7	102.37	%			08:46:59
2	Ag 328.068†	1471.9	758.9	5.0253	µg/L	5.0253	ppb	08:47:01
2	As 188.979†	10.2	13.6	25.608	µg/L	25.608	ppb	08:47:21
2	B 249.677†	4490.5	4097.8	47.922	µg/L	47.922	ppb	08:47:01
2	Ba 233.527†	275.2	355.8	4.9205	µg/L	4.9205	ppb	08:47:21
2	Be 313.107†	3826.6	11656.2	4.9246	µg/L	4.9246	ppb	08:47:01
2	Cd 226.502†	249.4	347.8	5.1799	µg/L	5.1799	ppb	08:47:21
2	Co 228.616†	102.2	201.0	5.7449	µg/L	5.7449	ppb	08:47:21
2	Cr 267.716†	387.4	264.0	4.7066	µg/L	4.7066	ppb	08:47:21
2	Cu 324.752†	5740.9	1416.0	9.6117	µg/L	9.6117	ppb	08:47:01
2	Mn 257.610†	3903.8	3611.3	10.377	µg/L	10.377	ppb	08:47:21
2	Mo 202.031†	88.1	97.6	10.906	µg/L	10.906	ppb	08:47:21
2	Ni 231.604†	130.4	186.0	5.3363	µg/L	5.3363	ppb	08:47:21
2	P 214.914†	64.5	127.5	129.86	µg/L	129.86	ppb	08:47:21
2	Pb 220.353†	150.3	32.2	6.6880	µg/L	6.6880	ppb	08:47:21

2	S 181.975 Axial†	60.2	30.6	96.106 µg/L	96.106 ppb	08:47:21
2	Sb 206.836†	20.8	15.7	9.8546 µg/L	9.8546 ppb	08:47:21
2	Se 196.026†	40.0	27.1	35.4 µg/L	35.4 ppb	08:47:21
2	SiO2†	3245.1	1224.1	221.30 µg/L	221.30 ppb	08:47:01
2	Si 251.611†	3957.4	3462.8	99.594 µg/L	99.594 ppb	08:47:01
2	Sn 189.927†	28.4	26.9	10.752 µg/L	10.752 ppb	08:47:21
2	Ti 334.940†	4161.5	2505.7	4.5964 µg/L	4.5964 ppb	08:47:01
2	Tl 190.801†	1.3	19.3	23.160 µg/L	23.160 ppb	08:47:21
2	U 367.007†	552.6	245.6	68.804 µg/L	68.804 ppb	08:47:01
2	V 292.402†	1029.3	700.1	5.0815 µg/L	5.0815 ppb	08:47:01
2	Zn 213.857†	1429.6	842.6	10.352 µg/L	10.352 ppb	08:47:21
3	Sc RADIAL	22306.4	22306.4	94.0 %		08:45:57
3	Al 396.153Radial†	1.1	109.2	229.08 µg/L	229.08 ppb	08:45:57
3	Ca 317.933Radial†	414.4	358.7	226.02 µg/L	226.02 ppb	08:46:17
3	Fe 238.204 Radial†	60.2	31.1	96.138 µg/L	96.138 ppb	08:46:17
3	K 766.490 Radial†	870.2	206.9	283.25 µg/L	283.25 ppb	08:45:57
3	Mg 279.077 IEC†	52.9	53.2	342.96 µg/L	342.96 ppb	08:46:17
3	Na 589.592 Radial†	142.5	200.4	278.60 µg/L	278.60 ppb	08:45:57
3	Sr 421.552†	445.0	446.8	5.1573 µg/L	5.1573 ppb	08:45:57
3	Sc 361.383	1320812.2	1320812.2	102.10 %		08:47:23
3	Y 371.029	777163.8	777163.8	101.76 %		08:47:23
3	Ag 328.068†	1395.9	692.1	4.5863 µg/L	4.5863 ppb	08:47:25
3	As 188.979†	14.5	17.8	33.613 µg/L	33.613 ppb	08:47:45
3	B 249.677†	4461.2	4092.4	47.874 µg/L	47.874 ppb	08:47:25
3	Ba 233.527†	295.5	377.2	5.2154 µg/L	5.2154 ppb	08:47:45
3	Be 313.107†	3712.6	11564.4	4.8858 µg/L	4.8858 ppb	08:47:25
3	Cd 226.502†	261.0	360.4	5.3702 µg/L	5.3702 ppb	08:47:45
3	Co 228.616†	93.7	193.2	5.5202 µg/L	5.5202 ppb	08:47:45
3	Cr 267.716†	415.6	293.6	5.2441 µg/L	5.2441 ppb	08:47:45
3	Cu 324.752†	5721.7	1427.0	9.6802 µg/L	9.6802 ppb	08:47:25
3	Mn 257.610†	3876.9	3605.2	10.358 µg/L	10.358 ppb	08:47:45
3	Mo 202.031†	81.4	91.4	10.219 µg/L	10.219 ppb	08:47:45
3	Ni 231.604†	126.5	182.9	5.2467 µg/L	5.2467 ppb	08:47:45
3	P 214.914†	79.4	142.4	145.11 µg/L	145.11 ppb	08:47:45
3	Pb 220.353†	153.0	35.6	7.3969 µg/L	7.3969 ppb	08:47:45
3	S 181.975 Axial†	64.2	34.8	109.45 µg/L	109.45 ppb	08:47:45
3	Sb 206.836†	14.9	10.1	6.3191 µg/L	6.3191 ppb	08:47:45
3	Se 196.026†	45.3	32.6	42.4 µg/L	42.4 ppb	08:47:45
3	SiO2†	3235.2	1231.3	222.60 µg/L	222.60 ppb	08:47:25
3	Si 251.611†	3937.6	3463.8	99.633 µg/L	99.633 ppb	08:47:25
3	Sn 189.927†	23.6	22.3	8.9399 µg/L	8.9399 ppb	08:47:45
3	Ti 334.940†	4254.6	2618.4	4.8088 µg/L	4.8088 ppb	08:47:25
3	Tl 190.801†	7.6	25.4	30.534 µg/L	30.534 ppb	08:47:45
3	U 367.007†	520.0	216.6	60.650 µg/L	60.650 ppb	08:47:25
3	V 292.402†	1061.7	737.1	5.3262 µg/L	5.3262 ppb	08:47:25
3	Zn 213.857†	1418.1	838.8	10.307 µg/L	10.307 ppb	08:47:45

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1330271.0	102.83	%	0.841				0.82%
Sc RADIAL	22958.4	96.7	%	2.39				2.48%
Y 371.029	782921.9	102.51	%	0.835				0.81%
Ag 328.068†	777.0	5.1608	µg/L	0.65288	5.1608	ppb	0.65288	12.65%
QC value within limits for Ag 328.068 Recovery = 103.22%								
Al 396.153Radial†	104.2	218.68	µg/L	15.974	218.68	ppb	15.974	7.30%
QC value within limits for Al 396.153Radial Recovery = 109.34%								
As 188.979†	15.8	29.849	µg/L	4.0236	29.849	ppb	4.0236	13.48%
QC value within limits for As 188.979 Recovery = 99.50%								
B 249.677†	4069.7	47.608	µg/L	0.5034	47.608	ppb	0.5034	1.06%
QC value within limits for B 249.677 Recovery = 95.22%								
Ba 233.527†	366.7	5.0710	µg/L	0.14754	5.0710	ppb	0.14754	2.91%
QC value within limits for Ba 233.527 Recovery = 101.42%								
Be 313.107†	11652.4	4.9230	µg/L	0.03637	4.9230	ppb	0.03637	0.74%
QC value within limits for Be 313.107 Recovery = 98.46%								
Ca 317.933Radial†	347.5	218.94	µg/L	6.354	218.94	ppb	6.354	2.90%
QC value within limits for Ca 317.933Radial Recovery = 109.47%								
Cd 226.502†	352.2	5.2473	µg/L	0.10660	5.2473	ppb	0.10660	2.03%
QC value within limits for Cd 226.502 Recovery = 104.95%								
Co 228.616†	194.2	5.5498	µg/L	0.18211	5.5498	ppb	0.18211	3.28%

```
   QC value within limits for Co 228.616  Recovery = 111.00%
Cr 267.716†              279.9      5.0011 µg/L       0.27243      5.0011 ppb        0.27243   5.45%
   QC value within limits for Cr 267.716  Recovery = 100.02%
Cu 324.752†             1401.8      9.5077 µg/L       0.24190      9.5077 ppb        0.24190   2.54%
   QC value within limits for Cu 324.752  Recovery = 95.08%
Fe 238.204 Radial†        33.1      102.52 µg/L         6.670      102.52 ppb          6.670   6.51%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.52%
K 766.490 Radial†        160.6      219.87 µg/L        56.470      219.87 ppb         56.470  25.68%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 146.58%
Mg 279.077 IEC†           54.9      353.99 µg/L        56.021      353.99 ppb         56.021  15.83%
   QC value within limits for Mg 279.077 IEC  Recovery = 118.00%
Mn 257.610†             3593.3      10.324 µg/L        0.0764      10.324 ppb         0.0764   0.74%
   QC value within limits for Mn 257.610  Recovery = 103.24%
Mo 202.031†               95.9      10.724 µg/L        0.4427      10.724 ppb         0.4427   4.13%
   QC value within limits for Mo 202.031  Recovery = 107.24%
Na 589.592 Radial†       204.7      284.67 µg/L         5.335      284.67 ppb          5.335   1.87%
   QC value within limits for Na 589.592 Radial  Recovery = 94.89%
Ni 231.604†              183.5      5.2647 µg/L       0.06459      5.2647 ppb        0.06459   1.23%
   QC value within limits for Ni 231.604  Recovery = 105.29%
P 214.914†               135.3      137.80 µg/L         7.647      137.80 ppb          7.647   5.55%
   QC value within limits for P 214.914  Recovery = 91.87%
Pb 220.353†               37.3      7.7607 µg/L       1.29354      7.7607 ppb        1.29354  16.67%
   QC value within limits for Pb 220.353  Recovery = 77.61%
S 181.975 Axial†          34.2      107.51 µg/L        10.572      107.51 ppb         10.572   9.83%
   QC value within limits for S 181.975 Axial  Recovery = 107.51%
Sb 206.836†               13.3      8.3360 µg/L       1.81965      8.3360 ppb        1.81965  21.83%
   QC value within limits for Sb 206.836  Recovery = 83.36%
Se 196.026†               29.0        37.8 µg/L          4.02        37.8 ppb           4.02  10.65%
   QC value within limits for Se 196.026  Recovery = 125.85%
SiO2†                    1180.7      213.46 µg/L        14.722      213.46 ppb         14.722   6.90%
   QC value within limits for SiO2  Recovery = 100.22%
Si 251.611†              3430.0      98.652 µg/L        1.6658      98.652 ppb         1.6658   1.69%
   QC value within limits for Si 251.611  Recovery = 98.65%
Sn 189.927†               24.2      9.6617 µg/L       0.96075      9.6617 ppb        0.96075   9.94%
   QC value within limits for Sn 189.927  Recovery = 96.62%
Sr 421.552†              447.7      5.1681 µg/L       0.10042      5.1681 ppb        0.10042   1.94%
   QC value within limits for Sr 421.552  Recovery = 103.36%
Ti 334.940†              2566.2      4.7155 µg/L       0.10851      4.7155 ppb        0.10851   2.30%
   QC value within limits for Ti 334.940  Recovery = 94.31%
Tl 190.801†               22.4      26.888 µg/L        3.6877      26.888 ppb         3.6877  13.71%
   QC value greater than the upper limit for Tl 190.801  Recovery = 134.44%
U 367.007†               193.8      54.174 µg/L       18.7277      54.174 ppb        18.7277  34.57%
   QC value within limits for U 367.007  Recovery = 108.35%
V 292.402†               757.2      5.4694 µg/L       0.47585      5.4694 ppb        0.47585   8.70%
   QC value within limits for V 292.402  Recovery = 109.39%
Zn 213.857†              833.2      10.237 µg/L        0.1617      10.237 ppb         0.1617   1.58%
   QC value within limits for Zn 213.857  Recovery = 102.37%
QC Failed.  Continue with analysis.
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Sequence No.: 21 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 08:47:54**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23345.8	23345.8	98.3	%			08:48:44
1	Al 396.153Radial†	-114.0	-8.0	-16.723	µg/L	-16.723	ppb	08:48:44
1	Ca 317.933Radial†	86.4	5.4	3.3883	µg/L	3.3883	ppb	08:49:04
1	Fe 238.204 Radial†	31.1	-1.3	-4.1422	µg/L	-4.1422	ppb	08:49:04
1	K 766.490 Radial†	729.7	22.8	31.185	µg/L	31.185	ppb	08:48:44
1	Mg 279.077 IEC†	6.3	3.3	21.172	µg/L	21.172	ppb	08:49:04
1	Na 589.592 Radial†	-63.1	-15.5	-21.590	µg/L	-21.590	ppb	08:48:44
1	Sr 421.552†	25.5	-0.9	-0.0102	µg/L	-0.0102	ppb	08:48:44
1	Sc 361.383	1323050.1	1323050.1	102.27	%			08:50:42
1	Y 371.029	779039.4	779039.4	102.00	%			08:50:42
1	Ag 328.068†	738.9	47.3	0.3084	µg/L	0.3084	ppb	08:50:44
1	As 188.979†	-5.9	-2.2	-4.0714	µg/L	-4.0714	ppb	08:51:04
1	B 249.677†	285.9	2.3	0.0310	µg/L	0.0310	ppb	08:50:44
1	Ba 233.527†	-75.7	13.7	0.1900	µg/L	0.1900	ppb	08:51:04
1	Be 313.107†	-8780.9	-658.1	-0.2780	µg/L	-0.2780	ppb	08:50:44
1	Cd 226.502†	-116.3	-9.0	-0.1330	µg/L	-0.1330	ppb	08:51:04
1	Co 228.616†	-92.4	11.1	0.3182	µg/L	0.3182	ppb	08:51:04
1	Cr 267.716†	96.8	-18.7	-0.3448	µg/L	-0.3448	ppb	08:51:04
1	Cu 324.752†	4294.4	21.8	0.1520	µg/L	0.1520	ppb	08:50:44
1	Mn 257.610†	206.5	9.8	0.0272	µg/L	0.0272	ppb	08:51:04
1	Mo 202.031†	-9.7	2.3	0.2522	µg/L	0.2522	ppb	08:51:04
1	Ni 231.604†	-53.7	6.5	0.1864	µg/L	0.1864	ppb	08:51:04
1	P 214.914†	-78.1	-11.7	-11.971	µg/L	-11.971	ppb	08:51:04
1	Pb 220.353†	109.3	-7.3	-1.5382	µg/L	-1.5382	ppb	08:51:04
1	S 181.975 Axial†	31.8	3.0	9.3116	µg/L	9.3116	ppb	08:51:04
1	Sb 206.836†	2.1	-2.5	-1.5610	µg/L	-1.5610	ppb	08:51:04
1	Se 196.026†	14.3	2.1	2.76	µg/L	2.76	ppb	08:51:04
1	SiO2†	2128.9	144.1	26.028	µg/L	26.028	ppb	08:50:44
1	Si 251.611†	448.0	45.1	1.2958	µg/L	1.2958	ppb	08:51:04
1	Sn 189.927†	5.1	4.3	1.6973	µg/L	1.6973	ppb	08:51:04
1	Ti 334.940†	1504.7	-77.5	-0.1484	µg/L	-0.1484	ppb	08:50:44
1	Tl 190.801†	-15.0	3.3	3.9559	µg/L	3.9559	ppb	08:51:04
1	U 367.007†	337.5	37.3	10.557	µg/L	10.557	ppb	08:50:44
1	V 292.402†	383.8	72.5	0.5136	µg/L	0.5136	ppb	08:50:44
1	Zn 213.857†	567.7	4.9	0.0590	µg/L	0.0590	ppb	08:51:04
2	Sc RADIAL	23241.0	23241.0	97.9	%			08:49:24
2	Al 396.153Radial†	-118.1	-12.6	-26.535	µg/L	-26.535	ppb	08:49:24
2	Ca 317.933Radial†	85.9	5.3	3.3673	µg/L	3.3673	ppb	08:49:44
2	Fe 238.204 Radial†	34.0	1.8	5.4726	µg/L	5.4726	ppb	08:49:44
2	K 766.490 Radial†	733.7	30.2	41.373	µg/L	41.373	ppb	08:49:24
2	Mg 279.077 IEC†	-3.1	-6.3	-40.616	µg/L	-40.616	ppb	08:49:44
2	Na 589.592 Radial†	-38.5	9.3	12.893	µg/L	12.893	ppb	08:49:24
2	Sr 421.552†	38.0	12.0	0.1387	µg/L	0.1387	ppb	08:49:24
2	Sc 361.383	1329909.1	1329909.1	102.80	%			08:51:06
2	Y 371.029	780718.1	780718.1	102.22	%			08:51:06
2	Ag 328.068†	800.8	103.8	0.6719	µg/L	0.6719	ppb	08:51:08
2	As 188.979†	-4.5	-0.7	-1.4033	µg/L	-1.4033	ppb	08:51:28
2	B 249.677†	282.7	-2.2	-0.0635	µg/L	-0.0635	ppb	08:51:08
2	Ba 233.527†	-78.7	11.1	0.1538	µg/L	0.1538	ppb	08:51:28
2	Be 313.107†	-8734.1	-568.3	-0.2401	µg/L	-0.2401	ppb	08:51:08
2	Cd 226.502†	-108.0	-0.3	-0.0049	µg/L	-0.0049	ppb	08:51:28
2	Co 228.616†	-102.0	2.3	0.0643	µg/L	0.0643	ppb	08:51:28
2	Cr 267.716†	131.3	14.3	0.2410	µg/L	0.2410	ppb	08:51:28
2	Cu 324.752†	4372.5	76.2	0.5268	µg/L	0.5268	ppb	08:51:08
2	Mn 257.610†	203.5	5.8	0.0182	µg/L	0.0182	ppb	08:51:28
2	Mo 202.031†	-9.1	2.8	0.3128	µg/L	0.3128	ppb	08:51:28
2	Ni 231.604†	-62.7	-2.0	-0.0584	µg/L	-0.0584	ppb	08:51:28
2	P 214.914†	-84.2	-17.3	-17.644	µg/L	-17.644	ppb	08:51:28
2	Pb 220.353†	98.6	-18.4	-3.8442	µg/L	-3.8442	ppb	08:51:28

2	S 181.975 Axial†	28.5	-0.4	-1.2399 µg/L	-1.2399 ppb	08:51:28
2	Sb 206.836†	-1.4	-5.9	-3.7015 µg/L	-3.7015 ppb	08:51:28
2	Se 196.026†	13.4	1.2	1.53 µg/L	1.53 ppb	08:51:28
2	SiO2†	2082.2	88.0	15.904 µg/L	15.904 ppb	08:51:08
2	Si 251.611†	450.6	45.4	1.3033 µg/L	1.3033 ppb	08:51:28
2	Sn 189.927†	-1.8	-2.5	-1.0086 µg/L	-1.0086 ppb	08:51:28
2	Ti 334.940†	1719.4	123.7	0.2158 µg/L	0.2158 ppb	08:51:08
2	Tl 190.801†	-15.8	2.6	3.1730 µg/L	3.1730 ppb	08:51:28
2	U 367.007†	392.8	89.4	25.254 µg/L	25.254 ppb	08:51:08
2	V 292.402†	341.9	29.8	0.2277 µg/L	0.2277 ppb	08:51:08
2	Zn 213.857†	555.3	-10.1	-0.1241 µg/L	-0.1241 ppb	08:51:28
3	Sc RADIAL	23283.2	23283.2	98.1 %		08:50:04
3	Al 396.153Radial†	-112.5	-6.7	-14.085 µg/L	-14.085 ppb	08:50:04
3	Ca 317.933Radial†	96.2	15.6	9.8456 µg/L	9.8456 ppb	08:50:25
3	Fe 238.204 Radial†	28.9	-3.6	-11.133 µg/L	-11.133 ppb	08:50:25
3	K 766.490 Radial†	762.4	58.1	79.469 µg/L	79.469 ppb	08:50:04
3	Mg 279.077 IEC†	7.5	4.6	29.462 µg/L	29.462 ppb	08:50:25
3	Na 589.592 Radial†	-54.4	-6.9	-9.5584 µg/L	-9.5584 ppb	08:50:04
3	Sr 421.552†	39.3	13.3	0.1531 µg/L	0.1531 ppb	08:50:04
3	Sc 361.383	1333913.1	1333913.1	103.11 %		08:51:31
3	Y 371.029	785464.9	785464.9	102.84 %		08:51:31
3	Ag 328.068†	598.4	-94.8	-0.6392 µg/L	-0.6392 ppb	08:51:33
3	As 188.979†	-6.4	-2.6	-4.8644 µg/L	-4.8644 ppb	08:51:53
3	B 249.677†	377.9	89.2	1.0659 µg/L	1.0659 ppb	08:51:33
3	Ba 233.527†	-90.6	-0.2	-0.0031 µg/L	-0.0031 ppb	08:51:53
3	Be 313.107†	-8792.9	-599.9	-0.2534 µg/L	-0.2534 ppb	08:51:33
3	Cd 226.502†	-105.6	2.3	0.0363 µg/L	0.0363 ppb	08:51:53
3	Co 228.616†	-79.0	24.8	0.7109 µg/L	0.7109 ppb	08:51:53
3	Cr 267.716†	103.3	-13.2	-0.2428 µg/L	-0.2428 ppb	08:51:53
3	Cu 324.752†	4339.8	31.7	0.2158 µg/L	0.2158 ppb	08:51:33
3	Mn 257.610†	214.4	15.7	0.0439 µg/L	0.0439 ppb	08:51:53
3	Mo 202.031†	-4.3	7.5	0.8436 µg/L	0.8436 ppb	08:51:53
3	Ni 231.604†	-67.4	-6.4	-0.1831 µg/L	-0.1831 ppb	08:51:53
3	P 214.914†	-76.2	-9.3	-9.4424 µg/L	-9.4424 ppb	08:51:53
3	Pb 220.353†	101.9	-15.4	-3.2191 µg/L	-3.2191 ppb	08:51:53
3	S 181.975 Axial†	29.2	0.2	0.5630 µg/L	0.5630 ppb	08:51:53
3	Sb 206.836†	2.9	-1.7	-1.0397 µg/L	-1.0397 ppb	08:51:53
3	Se 196.026†	10.4	-1.8	-2.30 µg/L	-2.30 ppb	08:51:53
3	SiO2†	2077.0	76.8	13.873 µg/L	13.873 ppb	08:51:33
3	Si 251.611†	434.6	28.6	0.8101 µg/L	0.8101 ppb	08:51:53
3	Sn 189.927†	5.3	4.4	1.7400 µg/L	1.7400 ppb	08:51:53
3	Ti 334.940†	1548.4	-47.1	-0.0898 µg/L	-0.0898 ppb	08:51:33
3	Tl 190.801†	-23.8	-5.1	-6.0907 µg/L	-6.0907 ppb	08:51:53
3	U 367.007†	324.2	21.7	6.1805 µg/L	6.1805 ppb	08:51:33
3	V 292.402†	294.7	-16.9	-0.1065 µg/L	-0.1065 ppb	08:51:33
3	Zn 213.857†	563.9	-3.3	-0.0392 µg/L	-0.0392 ppb	08:51:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1328957.4	102.72	%	0.425				0.41%
Sc RADIAL	23290.0	98.1	%	0.22				0.23%
Y 371.029	781740.8	102.36	%	0.436				0.43%
Ag 328.068†	18.8	0.1137	µg/L	0.67689	0.1137	ppb	0.67689	595.40%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-9.1	-19.114	µg/L	6.5605	-19.114	ppb	6.5605	34.32%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.8	-3.4464	µg/L	1.81325	-3.4464	ppb	1.81325	52.61%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	29.8	0.3445	µg/L	0.62657	0.3445	ppb	0.62657	181.90%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.2	0.1136	µg/L	0.10263	0.1136	ppb	0.10263	90.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-608.7	-0.2572	µg/L	0.01925	-0.2572	ppb	0.01925	7.48%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.8	5.5337	µg/L	3.73420	5.5337	ppb	3.73420	67.48%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-2.3	-0.0339	µg/L	0.08830	-0.0339	ppb	0.08830	260.76%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	12.7	0.3645	µg/L	0.32576	0.3645	ppb	0.32576	89.38%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -5.9     -0.1155 µg/L       0.31295     -0.1155 ppb        0.31295 270.89%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                43.2      0.2982 µg/L       0.20052      0.2982 ppb        0.20052  67.24%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -1.1     -3.2674 µg/L       8.33709     -3.2674 ppb        8.33709 255.16%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          37.0      50.675 µg/L       25.4506      50.675 ppb        25.4506  50.22%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.5      3.3397 µg/L      38.29134      3.3397 ppb       38.29134 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                10.4      0.0298 µg/L       0.01306      0.0298 ppb        0.01306  43.87%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 4.2      0.4695 µg/L       0.32533      0.4695 ppb        0.32533  69.29%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         -4.4     -6.0851 µg/L      17.50202     -6.0851 ppb       17.50202 287.62%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -0.6     -0.0184 µg/L       0.18802     -0.0184 ppb        0.18802 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -12.8     -13.019 µg/L        4.2002     -13.019 ppb         4.2002  32.26%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -13.7     -2.8672 µg/L       1.19259     -2.8672 ppb        1.19259  41.59%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            0.9      2.8782 µg/L       5.64393      2.8782 ppb        5.64393 196.09%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -3.4     -2.1007 µg/L       1.41061     -2.1007 ppb        1.41061  67.15%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 0.5       0.665 µg/L        2.6431       0.665 ppb         2.6431 397.38%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     102.9      18.601 µg/L        6.5111      18.601 ppb         6.5111  35.00%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                39.7      1.1364 µg/L       0.28258      1.1364 ppb        0.28258  24.87%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 2.0      0.8096 µg/L       1.57476      0.8096 ppb        1.57476 194.52%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 8.1      0.0939 µg/L       0.09039      0.0939 ppb        0.09039  96.27%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                -0.3     -0.0075 µg/L       0.19557     -0.0075 ppb        0.19557 >999.9%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 0.3      0.3460 µg/L       5.58812      0.3460 ppb        5.58812 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 49.4      13.997 µg/L        9.9913      13.997 ppb         9.9913  71.38%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 28.4      0.2116 µg/L       0.31039      0.2116 ppb        0.31039 146.68%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                -2.8     -0.0348 µg/L       0.09163     -0.0348 ppb        0.09163 263.43%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 22 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 08:52:01**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23619.5	23619.5	99.5	%			08:52:32
1	Al 396.153Radial†	2218.5	2338.1	4903.6	µg/L	4903.6	ppb	08:52:52
1	Ca 317.933Radial†	8101.0	8060.8	5080.0	µg/L	5080.0	ppb	08:52:52
1	Fe 238.204 Radial†	1687.2	1663.0	5140.5	µg/L	5140.5	ppb	08:52:52
1	K 766.490 Radial†	4359.6	3663.0	5021.2	µg/L	5021.2	ppb	08:52:32
1	Mg 279.077 IEC†	810.9	812.0	5232.9	µg/L	5232.9	ppb	08:52:52
1	Na 589.592 Radial†	7018.4	7103.6	9877.2	µg/L	9877.2	ppb	08:52:32
1	Sr 421.552†	42498.4	42693.4	492.94	µg/L	492.94	ppb	08:52:32
1	Sc 361.383	1342859.6	1342859.6	103.80	%			08:53:54
1	Y 371.029	774016.2	774016.2	101.34	%			08:53:54
1	Ag 328.068†	78241.5	74702.3	500.40	µg/L	500.40	ppb	08:53:56
1	As 188.979†	288.1	281.2	535.44	µg/L	535.44	ppb	08:54:16
1	B 249.677†	43416.4	41549.9	471.06	µg/L	471.06	ppb	08:53:56
1	Ba 233.527†	36796.0	35536.7	491.45	µg/L	491.45	ppb	08:53:56
1	Be 313.107†	1195870.1	1160023.8	490.09	µg/L	490.09	ppb	08:53:54
1	Cd 226.502†	33891.6	32755.8	488.57	µg/L	488.57	ppb	08:53:56
1	Co 228.616†	17907.8	17353.7	495.37	µg/L	495.37	ppb	08:53:56
1	Cr 267.716†	28152.9	27008.9	485.94	µg/L	485.94	ppb	08:53:56
1	Cu 324.752†	80464.1	73341.5	496.44	µg/L	496.44	ppb	08:53:56
1	Mn 257.610†	179365.7	172607.9	496.30	µg/L	496.30	ppb	08:53:56
1	Mo 202.031†	4619.3	4461.9	498.49	µg/L	498.49	ppb	08:54:16
1	Ni 231.604†	17776.9	17185.2	493.00	µg/L	493.00	ppb	08:53:56
1	P 214.914†	2288.1	2269.0	2300.6	µg/L	2300.6	ppb	08:54:16
1	Pb 220.353†	2593.1	2383.9	497.76	µg/L	497.76	ppb	08:54:16
1	S 181.975 Axial†	352.7	311.7	977.11	µg/L	977.11	ppb	08:54:16
1	Sb 206.836†	781.2	748.0	465.87	µg/L	465.87	ppb	08:54:16
1	Se 196.026†	409.4	382.6	500	µg/L	500	ppb	08:54:16
1	SiO2†	31856.1	28752.5	5205.4	µg/L	5205.4	ppb	08:53:56
1	Si 251.611†	87782.5	84176.3	2418.2	µg/L	2418.2	ppb	08:53:56
1	Sn 189.927†	1212.4	1167.3	466.33	µg/L	466.33	ppb	08:54:16
1	Ti 334.940†	278980.3	267219.4	493.05	µg/L	493.05	ppb	08:53:56
1	Tl 190.801†	438.3	440.2	524.76	µg/L	524.76	ppb	08:54:16
1	U 367.007†	2268.8	1893.0	505.20	µg/L	505.20	ppb	08:53:56
1	V 292.402†	72564.1	69605.2	493.57	µg/L	493.57	ppb	08:53:56
1	Zn 213.857†	42014.1	39926.0	489.49	µg/L	489.49	ppb	08:53:56
2	Sc RADIAL	23348.5	23348.5	98.3	%			08:52:54
2	Al 396.153Radial†	2177.3	2322.0	4869.6	µg/L	4869.6	ppb	08:53:14
2	Ca 317.933Radial†	8047.2	8100.7	5105.1	µg/L	5105.1	ppb	08:53:14
2	Fe 238.204 Radial†	1676.2	1671.5	5165.7	µg/L	5165.7	ppb	08:53:14
2	K 766.490 Radial†	4271.3	3624.1	4968.9	µg/L	4968.9	ppb	08:52:54
2	Mg 279.077 IEC†	805.4	815.9	5257.8	µg/L	5257.8	ppb	08:53:14
2	Na 589.592 Radial†	6930.1	7095.7	9866.2	µg/L	9866.2	ppb	08:52:54
2	Sr 421.552†	42149.6	42834.5	494.57	µg/L	494.57	ppb	08:52:54
2	Sc 361.383	1253490.6	1253490.6	96.892	%			08:54:18
2	Y 371.029	721482.2	721482.2	94.465	%			08:54:18
2	Ag 328.068†	79052.1	80913.0	542.02	µg/L	542.02	ppb	08:54:20
2	As 188.979†	284.4	297.2	565.98	µg/L	565.98	ppb	08:54:41
2	B 249.677†	43656.7	44780.1	509.28	µg/L	509.28	ppb	08:54:20
2	Ba 233.527†	37216.9	38498.5	532.41	µg/L	532.41	ppb	08:54:20
2	Be 313.107†	1191587.3	1237743.5	522.93	µg/L	522.93	ppb	08:54:18
2	Cd 226.502†	34303.2	35508.5	529.68	µg/L	529.68	ppb	08:54:20
2	Co 228.616†	18074.9	18756.2	535.40	µg/L	535.40	ppb	08:54:20
2	Cr 267.716†	28521.2	29322.8	527.56	µg/L	527.56	ppb	08:54:20
2	Cu 324.752†	81435.6	79870.9	540.58	µg/L	540.58	ppb	08:54:20
2	Mn 257.610†	181238.7	186861.0	537.29	µg/L	537.29	ppb	08:54:20
2	Mo 202.031†	4601.9	4761.2	531.91	µg/L	531.91	ppb	08:54:41
2	Ni 231.604†	17933.6	18568.0	532.67	µg/L	532.67	ppb	08:54:20
2	P 214.914†	2280.3	2418.1	2452.1	µg/L	2452.1	ppb	08:54:41
2	Pb 220.353†	2557.8	2525.7	527.36	µg/L	527.36	ppb	08:54:41

2	S 181.975 Axial†	348.3	331.4	1039.0 µg/L	1039.0 ppb	08:54:41
2	Sb 206.836†	782.9	803.5	500.34 µg/L	500.34 ppb	08:54:41
2	Se 196.026†	408.0	409.2	534 µg/L	534 ppb	08:54:41
2	SiO2†	32108.2	31200.7	5648.6 µg/L	5648.6 ppb	08:54:20
2	Si 251.611†	88727.4	91180.9	2619.5 µg/L	2619.5 ppb	08:54:20
2	Sn 189.927†	1207.7	1245.7	497.61 µg/L	497.61 ppb	08:54:41
2	Ti 334.940†	282559.6	290075.8	535.20 µg/L	535.20 ppb	08:54:20
2	Tl 190.801†	444.8	477.1	568.72 µg/L	568.72 ppb	08:54:41
2	U 367.007†	2262.7	2042.6	547.16 µg/L	547.16 ppb	08:54:20
2	V 292.402†	73342.5	75392.7	534.45 µg/L	534.45 ppb	08:54:20
2	Zn 213.857†	42276.5	43082.6	528.23 µg/L	528.23 ppb	08:54:20
3	Sc RADIAL	23354.5	23354.5	98.4 %		08:53:16
3	Al 396.153Radial†	2203.0	2347.6	4923.9 µg/L	4923.9 ppb	08:53:36
3	Ca 317.933Radial†	8029.9	8081.0	5092.7 µg/L	5092.7 ppb	08:53:36
3	Fe 238.204 Radial†	1672.4	1667.2	5154.0 µg/L	5154.0 ppb	08:53:36
3	K 766.490 Radial†	4230.9	3581.9	4910.1 µg/L	4910.1 ppb	08:53:16
3	Mg 279.077 IEC†	803.4	813.7	5243.7 µg/L	5243.7 ppb	08:53:36
3	Na 589.592 Radial†	6686.1	6846.0	9518.9 µg/L	9518.9 ppb	08:53:16
3	Sr 421.552†	41771.1	42438.8	490.00 µg/L	490.00 ppb	08:53:16
3	Sc 361.383	1335375.9	1335375.9	103.22 %		08:54:43
3	Y 371.029	769895.8	769895.8	100.80 %		08:54:43
3	Ag 328.068†	76062.1	73013.3	489.07 µg/L	489.07 ppb	08:54:45
3	As 188.979†	264.6	259.9	495.31 µg/L	495.31 ppb	08:55:05
3	B 249.677†	42003.0	40415.0	457.60 µg/L	457.60 ppb	08:54:45
3	Ba 233.527†	35738.7	34711.1	480.03 µg/L	480.03 ppb	08:54:45
3	Be 313.107†	1192449.0	1163165.9	491.42 µg/L	491.42 ppb	08:54:43
3	Cd 226.502†	33001.3	32076.2	478.41 µg/L	478.41 ppb	08:54:45
3	Co 228.616†	17298.7	16860.3	481.27 µg/L	481.27 ppb	08:54:45
3	Cr 267.716†	27351.1	26384.2	474.70 µg/L	474.70 ppb	08:54:45
3	Cu 324.752†	78280.1	71660.0	485.09 µg/L	485.09 ppb	08:54:45
3	Mn 257.610†	174332.5	168700.2	485.07 µg/L	485.07 ppb	08:54:45
3	Mo 202.031†	4380.1	4255.1	475.42 µg/L	475.42 ppb	08:55:05
3	Ni 231.604†	17189.6	16712.2	479.43 µg/L	479.43 ppb	08:54:45
3	P 214.914†	2167.4	2164.5	2194.3 µg/L	2194.3 ppb	08:55:05
3	Pb 220.353†	2483.3	2291.6	478.46 µg/L	478.46 ppb	08:55:05
3	S 181.975 Axial†	337.8	299.2	937.88 µg/L	937.88 ppb	08:55:05
3	Sb 206.836†	743.8	716.1	445.86 µg/L	445.86 ppb	08:55:05
3	Se 196.026†	387.1	363.2	474 µg/L	474 ppb	08:55:05
3	SiO2†	30839.0	27939.1	5058.2 µg/L	5058.2 ppb	08:54:45
3	Si 251.611†	85425.3	82366.6	2366.4 µg/L	2366.4 ppb	08:54:45
3	Sn 189.927†	1150.6	1114.0	445.07 µg/L	445.07 ppb	08:55:05
3	Ti 334.940†	271395.4	261377.4	482.27 µg/L	482.27 ppb	08:54:45
3	Tl 190.801†	410.3	415.5	495.09 µg/L	495.09 ppb	08:55:05
3	U 367.007†	2228.7	1866.4	497.65 µg/L	497.65 ppb	08:54:45
3	V 292.402†	70629.7	68122.9	482.92 µg/L	482.92 ppb	08:54:45
3	Zn 213.857†	40866.7	39041.2	478.64 µg/L	478.64 ppb	08:54:45

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1310575.3	101.30	%	3.832				3.78%
Sc RADIAL	23440.8	98.7	%	0.65				0.66%
Y 371.029	755131.4	98.871	%	3.8250				3.87%
Ag 328.068†	76209.5	510.50	µg/L	27.877	510.50	ppb	27.877	5.46%
QC value within limits for Ag 328.068 Recovery = 102.10%								
Al 396.153Radial†	2335.9	4899.0	µg/L	27.43	4899.0	ppb	27.43	0.56%
QC value within limits for Al 396.153Radial Recovery = 97.98%								
As 188.979†	279.4	532.24	µg/L	35.446	532.24	ppb	35.446	6.66%
QC value within limits for As 188.979 Recovery = 106.45%								
B 249.677†	42248.3	479.31	µg/L	26.810	479.31	ppb	26.810	5.59%
QC value within limits for B 249.677 Recovery = 95.86%								
Ba 233.527†	36248.8	501.30	µg/L	27.544	501.30	ppb	27.544	5.49%
QC value within limits for Ba 233.527 Recovery = 100.26%								
Be 313.107†	1186977.7	501.48	µg/L	18.586	501.48	ppb	18.586	3.71%
QC value within limits for Be 313.107 Recovery = 100.30%								
Ca 317.933Radial†	8080.8	5092.6	µg/L	12.56	5092.6	ppb	12.56	0.25%
QC value within limits for Ca 317.933Radial Recovery = 101.85%								
Cd 226.502†	33446.8	498.88	µg/L	27.145	498.88	ppb	27.145	5.44%
QC value within limits for Cd 226.502 Recovery = 99.78%								
Co 228.616†	17656.7	504.01	µg/L	28.080	504.01	ppb	28.080	5.57%

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   QC value within limits for Co 228.616  Recovery = 100.80%
Cr 267.716†            27572.0      496.07 µg/L        27.848      496.07 ppb         27.848   5.61%
   QC value within limits for Cr 267.716  Recovery = 99.21%
Cu 324.752†            74957.5      507.37 µg/L        29.314      507.37 ppb         29.314   5.78%
   QC value within limits for Cu 324.752  Recovery = 101.47%
Fe 238.204 Radial†      1667.2      5153.4 µg/L         12.57      5153.4 ppb          12.57   0.24%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.07%
K 766.490 Radial†       3623.0      4966.8 µg/L         55.60      4966.8 ppb          55.60   1.12%
   QC value within limits for K 766.490 Radial  Recovery = 99.34%
Mg 279.077 IEC†          813.8      5244.8 µg/L         12.48      5244.8 ppb          12.48   0.24%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.90%
Mn 257.610†           176056.4      506.22 µg/L        27.486      506.22 ppb         27.486   5.43%
   QC value within limits for Mn 257.610  Recovery = 101.24%
Mo 202.031†             4492.7      501.94 µg/L        28.405      501.94 ppb         28.405   5.66%
   QC value within limits for Mo 202.031  Recovery = 100.39%
Na 589.592 Radial†      7015.1      9754.1 µg/L        203.75      9754.1 ppb         203.75   2.09%
   QC value within limits for Na 589.592 Radial  Recovery = 97.54%
Ni 231.604†            17488.5      501.70 µg/L        27.666      501.70 ppb         27.666   5.51%
   QC value within limits for Ni 231.604  Recovery = 100.34%
P 214.914†              2283.9      2315.7 µg/L        129.56      2315.7 ppb         129.56   5.59%
   QC value within limits for P 214.914  Recovery = 92.63%
Pb 220.353†             2400.4      501.19 µg/L        24.630      501.19 ppb         24.630   4.91%
   QC value within limits for Pb 220.353  Recovery = 100.24%
S 181.975 Axial†         314.1      984.67 µg/L        50.995      984.67 ppb         50.995   5.18%
   QC value within limits for S 181.975 Axial  Recovery = 98.47%
Sb 206.836†              755.9      470.69 µg/L        27.557      470.69 ppb         27.557   5.85%
   QC value within limits for Sb 206.836  Recovery = 94.14%
Se 196.026†              385.0         503 µg/L          30.1         503 ppb           30.1   5.98%
   QC value within limits for Se 196.026  Recovery = 100.55%
SiO2†                  29297.4      5304.0 µg/L        307.33      5304.0 ppb         307.33   5.79%
   QC value within limits for SiO2  Recovery = 99.19%
Si 251.611†            85907.9      2468.0 µg/L        133.70      2468.0 ppb         133.70   5.42%
   QC value within limits for Si 251.611  Recovery = 98.72%
Sn 189.927†             1175.6      469.67 µg/L        26.427      469.67 ppb         26.427   5.63%
   QC value within limits for Sn 189.927  Recovery = 93.93%
Sr 421.552†            42655.6      492.50 µg/L         2.315      492.50 ppb          2.315   0.47%
   QC value within limits for Sr 421.552  Recovery = 98.50%
Ti 334.940†           272890.9      503.51 µg/L        27.974      503.51 ppb         27.974   5.56%
   QC value within limits for Ti 334.940  Recovery = 100.70%
Tl 190.801†              444.3      529.52 µg/L        37.042      529.52 ppb         37.042   7.00%
   QC value within limits for Tl 190.801  Recovery = 105.90%
U 367.007†              1934.0      516.67 µg/L        26.672      516.67 ppb         26.672   5.16%
   QC value within limits for U 367.007  Recovery = 103.33%
V 292.402†             71040.2      503.65 µg/L        27.201      503.65 ppb         27.201   5.40%
   QC value within limits for V 292.402  Recovery = 100.73%
Zn 213.857†            40683.3      498.79 µg/L        26.073      498.79 ppb         26.073   5.23%
   QC value within limits for Zn 213.857  Recovery = 99.76%
All analyte(s) passed QC.
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Sequence No.: 23 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 08:55:13**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23350.9	23350.9	98.3	%			08:56:01
1	Al 396.153Radial†	-105.6	0.6	1.3237	µg/L	1.3237	ppb	08:56:01
1	Ca 317.933Radial†	88.2	7.3	4.5967	µg/L	4.5967	ppb	08:56:21
1	Fe 238.204 Radial†	32.1	-0.3	-0.9965	µg/L	-0.9965	ppb	08:56:21
1	K 766.490 Radial†	728.0	20.9	28.569	µg/L	28.569	ppb	08:56:01
1	Mg 279.077 IEC†	1.4	-1.7	-10.957	µg/L	-10.957	ppb	08:56:21
1	Na 589.592 Radial†	-45.8	2.1	2.9337	µg/L	2.9337	ppb	08:56:01
1	Sr 421.552†	37.4	11.2	0.1294	µg/L	0.1294	ppb	08:56:01
1	Sc 361.383	1325673.5	1325673.5	102.47	%			08:57:58
1	Y 371.029	780076.4	780076.4	102.14	%			08:57:58
1	Ag 328.068†	702.3	10.1	0.0874	µg/L	0.0874	ppb	08:58:00
1	As 188.979†	-7.5	-3.7	-6.8899	µg/L	-6.8899	ppb	08:58:20
1	B 249.677†	370.7	84.5	0.9918	µg/L	0.9918	ppb	08:58:00
1	Ba 233.527†	-87.8	2.0	0.0289	µg/L	0.0289	ppb	08:58:20
1	Be 313.107†	-8917.4	-774.4	-0.3272	µg/L	-0.3272	ppb	08:58:00
1	Cd 226.502†	-117.7	-10.0	-0.1501	µg/L	-0.1501	ppb	08:58:20
1	Co 228.616†	-90.9	12.7	0.3641	µg/L	0.3641	ppb	08:58:20
1	Cr 267.716†	108.9	-7.1	-0.1157	µg/L	-0.1157	ppb	08:58:20
1	Cu 324.752†	4331.3	49.6	0.3250	µg/L	0.3250	ppb	08:58:00
1	Mn 257.610†	204.3	7.2	0.0211	µg/L	0.0211	ppb	08:58:20
1	Mo 202.031†	-1.7	10.1	1.1238	µg/L	1.1238	ppb	08:58:20
1	Ni 231.604†	-78.1	-17.3	-0.4951	µg/L	-0.4951	ppb	08:58:20
1	P 214.914†	-78.3	-11.8	-12.010	µg/L	-12.010	ppb	08:58:20
1	Pb 220.353†	109.5	-7.3	-1.5088	µg/L	-1.5088	ppb	08:58:20
1	S 181.975 Axial†	27.6	-1.1	-3.4684	µg/L	-3.4684	ppb	08:58:20
1	Sb 206.836†	2.0	-2.6	-1.6236	µg/L	-1.6236	ppb	08:58:20
1	Se 196.026†	9.8	-2.2	-2.91	µg/L	-2.91	ppb	08:58:20
1	SiO2†	2089.5	101.6	18.352	µg/L	18.352	ppb	08:58:00
1	Si 251.611†	438.3	34.8	0.9860	µg/L	0.9860	ppb	08:58:20
1	Sn 189.927†	2.0	1.3	0.5001	µg/L	0.5001	ppb	08:58:20
1	Ti 334.940†	1524.5	-61.2	-0.1024	µg/L	-0.1024	ppb	08:58:00
1	Tl 190.801†	-13.0	5.4	6.4423	µg/L	6.4423	ppb	08:58:20
1	U 367.007†	228.0	-70.3	-19.873	µg/L	-19.873	ppb	08:58:00
1	V 292.402†	378.1	66.2	0.4639	µg/L	0.4639	ppb	08:58:00
1	Zn 213.857†	566.6	2.7	0.0358	µg/L	0.0358	ppb	08:58:20
2	Sc RADIAL	23142.0	23142.0	97.5	%			08:56:41
2	Al 396.153Radial†	-102.4	2.9	6.1188	µg/L	6.1188	ppb	08:56:41
2	Ca 317.933Radial†	80.4	0.1	0.0495	µg/L	0.0495	ppb	08:57:01
2	Fe 238.204 Radial†	27.0	-5.3	-16.388	µg/L	-16.388	ppb	08:57:01
2	K 766.490 Radial†	764.0	64.5	88.234	µg/L	88.234	ppb	08:56:41
2	Mg 279.077 IEC†	2.3	-0.7	-4.7641	µg/L	-4.7641	ppb	08:57:01
2	Na 589.592 Radial†	-36.7	11.0	15.305	µg/L	15.305	ppb	08:56:41
2	Sr 421.552†	38.1	12.2	0.1414	µg/L	0.1414	ppb	08:56:41
2	Sc 361.383	1335284.4	1335284.4	103.21	%			08:58:22
2	Y 371.029	786379.3	786379.3	102.96	%			08:58:22
2	Ag 328.068†	638.7	-56.4	-0.3736	µg/L	-0.3736	ppb	08:58:24
2	As 188.979†	-6.8	-2.9	-5.4400	µg/L	-5.4400	ppb	08:58:44
2	B 249.677†	323.0	35.7	0.4483	µg/L	0.4483	ppb	08:58:24
2	Ba 233.527†	-73.0	16.9	0.2338	µg/L	0.2338	ppb	08:58:44
2	Be 313.107†	-8623.8	-427.3	-0.1805	µg/L	-0.1805	ppb	08:58:24
2	Cd 226.502†	-108.5	-0.4	-0.0033	µg/L	-0.0033	ppb	08:58:44
2	Co 228.616†	-96.8	7.7	0.2208	µg/L	0.2208	ppb	08:58:44
2	Cr 267.716†	119.6	2.4	0.0450	µg/L	0.0450	ppb	08:58:44
2	Cu 324.752†	4242.6	-66.8	-0.4549	µg/L	-0.4549	ppb	08:58:24
2	Mn 257.610†	213.0	14.2	0.0404	µg/L	0.0404	ppb	08:58:44
2	Mo 202.031†	-4.5	7.3	0.8129	µg/L	0.8129	ppb	08:58:44
2	Ni 231.604†	-59.3	1.5	0.0444	µg/L	0.0444	ppb	08:58:44
2	P 214.914†	-67.2	-0.5	-0.4579	µg/L	-0.4579	ppb	08:58:44
2	Pb 220.353†	109.0	-8.6	-1.7908	µg/L	-1.7908	ppb	08:58:44

2	S 181.975 Axial†	20.5	-8.2	-25.853	µg/L	-25.853	ppb	08:58:44
2	Sb 206.836†	6.3	1.6	0.9777	µg/L	0.9777	ppb	08:58:44
2	Se 196.026†	22.4	9.8	12.8	µg/L	12.8	ppb	08:58:44
2	SiO2†	1883.0	-113.2	-20.453	µg/L	-20.453	ppb	08:58:24
2	Si 251.611†	451.9	44.8	1.2785	µg/L	1.2785	ppb	08:58:44
2	Sn 189.927†	5.8	4.9	1.9348	µg/L	1.9348	ppb	08:58:44
2	Ti 334.940†	1554.4	-42.9	-0.0777	µg/L	-0.0777	ppb	08:58:24
2	Tl 190.801†	-15.8	2.7	3.2733	µg/L	3.2733	ppb	08:58:44
2	U 367.007†	291.3	-10.5	-2.8969	µg/L	-2.8969	ppb	08:58:24
2	V 292.402†	311.7	-0.8	0.0002	µg/L	0.0002	ppb	08:58:24
2	Zn 213.857†	562.5	-5.3	-0.0630	µg/L	-0.0630	ppb	08:58:44
3	Sc RADIAL	23024.7	23024.7	97.0	%			08:57:21
3	Al 396.153Radial†	-99.9	5.0	10.442	µg/L	10.442	ppb	08:57:21
3	Ca 317.933Radial†	86.3	6.5	4.1312	µg/L	4.1312	ppb	08:57:41
3	Fe 238.204 Radial†	29.8	-2.3	-7.1781	µg/L	-7.1781	ppb	08:57:41
3	K 766.490 Radial†	751.1	55.1	75.453	µg/L	75.453	ppb	08:57:21
3	Mg 279.077 IEC†	-3.2	-6.4	-41.473	µg/L	-41.473	ppb	08:57:41
3	Na 589.592 Radial†	-34.1	13.5	18.804	µg/L	18.804	ppb	08:57:21
3	Sr 421.552†	41.4	15.8	0.1828	µg/L	0.1828	ppb	08:57:21
3	Sc 361.383	1320973.1	1320973.1	102.11	%			08:58:47
3	Y 371.029	777323.7	777323.7	101.78	%			08:58:47
3	Ag 328.068†	723.8	33.7	0.2259	µg/L	0.2259	ppb	08:58:49
3	As 188.979†	-4.3	-0.6	-1.0690	µg/L	-1.0690	ppb	08:59:09
3	B 249.677†	421.8	135.8	1.6011	µg/L	1.6011	ppb	08:58:49
3	Ba 233.527†	-68.1	21.0	0.2906	µg/L	0.2906	ppb	08:59:09
3	Be 313.107†	-8662.9	-556.0	-0.2349	µg/L	-0.2349	ppb	08:58:49
3	Cd 226.502†	-120.7	-13.5	-0.2001	µg/L	-0.2001	ppb	08:59:09
3	Co 228.616†	-95.9	7.5	0.2164	µg/L	0.2164	ppb	08:59:09
3	Cr 267.716†	88.9	-26.3	-0.4748	µg/L	-0.4748	ppb	08:59:09
3	Cu 324.752†	4353.9	86.7	0.5842	µg/L	0.5842	ppb	08:58:49
3	Mn 257.610†	182.1	-13.8	-0.0385	µg/L	-0.0385	ppb	08:59:09
3	Mo 202.031†	1.1	12.7	1.4182	µg/L	1.4182	ppb	08:59:09
3	Ni 231.604†	-66.2	-5.8	-0.1674	µg/L	-0.1674	ppb	08:59:09
3	P 214.914†	-65.7	0.4	0.3711	µg/L	0.3711	ppb	08:59:09
3	Pb 220.353†	98.5	-17.8	-3.7030	µg/L	-3.7030	ppb	08:59:09
3	S 181.975 Axial†	23.6	-5.0	-15.722	µg/L	-15.722	ppb	08:59:09
3	Sb 206.836†	3.0	-1.6	-0.9718	µg/L	-0.9718	ppb	08:59:09
3	Se 196.026†	18.5	6.3	8.19	µg/L	8.19	ppb	08:59:09
3	SiO2†	1988.8	10.1	1.8224	µg/L	1.8224	ppb	08:58:49
3	Si 251.611†	458.5	56.1	1.5951	µg/L	1.5951	ppb	08:59:09
3	Sn 189.927†	-1.3	-2.0	-0.8171	µg/L	-0.8171	ppb	08:59:09
3	Ti 334.940†	1460.3	-118.7	-0.2189	µg/L	-0.2189	ppb	08:58:49
3	Tl 190.801†	-20.4	-2.0	-2.3822	µg/L	-2.3822	ppb	08:59:09
3	U 367.007†	302.4	3.4	1.0025	µg/L	1.0025	ppb	08:58:49
3	V 292.402†	353.7	43.6	0.3205	µg/L	0.3205	ppb	08:58:49
3	Zn 213.857†	547.6	-13.9	-0.1699	µg/L	-0.1699	ppb	08:59:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1327310.4	102.60	%	0.564				0.55%
Sc RADIAL	23172.5	97.6	%	0.70				0.71%
Y 371.029	781259.8	102.29	%	0.608				0.59%
Ag 328.068†	-4.2	-0.0201	µg/L	0.31388	-0.0201	ppb	0.31388	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	2.8	5.9615	µg/L	4.56115	5.9615	ppb	4.56115	76.51%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.4	-4.4663	µg/L	3.03014	-4.4663	ppb	3.03014	67.84%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	85.3	1.0137	µg/L	0.57671	1.0137	ppb	0.57671	56.89%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	13.3	0.1844	µg/L	0.13763	0.1844	ppb	0.13763	74.63%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-585.9	-0.2475	µg/L	0.07413	-0.2475	ppb	0.07413	29.95%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	4.6	2.9258	µg/L	2.50181	2.9258	ppb	2.50181	85.51%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-8.0	-0.1178	µg/L	0.10229	-0.1178	ppb	0.10229	86.82%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	9.3	0.2671	µg/L	0.08401	0.2671	ppb	0.08401	31.45%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -10.4     -0.1818 µg/L       0.26615     -0.1818 ppb        0.26615 146.37%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               23.2      0.1514 µg/L       0.54088      0.1514 ppb        0.54088 357.17%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -2.6     -8.1876 µg/L       7.74541     -8.1876 ppb        7.74541  94.60%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         46.8      64.086 µg/L       31.4148      64.086 ppb        31.4148  49.02%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -3.0     -19.065 µg/L       19.6518     -19.065 ppb        19.6518 103.08%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                2.5      0.0077 µg/L       0.04111      0.0077 ppb        0.04111 534.91%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               10.0      1.1183 µg/L       0.30268      1.1183 ppb        0.30268  27.07%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         8.9      12.348 µg/L        8.3382      12.348 ppb         8.3382  67.53%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -7.2     -0.2060 µg/L       0.27183     -0.2060 ppb        0.27183 131.94%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -4.0     -4.0322 µg/L       6.92136     -4.0322 ppb        6.92136 171.65%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -11.3     -2.3342 µg/L       1.19377     -2.3342 ppb        1.19377  51.14%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -4.8     -15.015 µg/L       11.2090     -15.015 ppb        11.2090  74.65%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -0.9     -0.5392 µg/L       1.35355     -0.5392 ppb        1.35355 251.02%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                4.6        6.03 µg/L         8.077        6.03 ppb          8.077 133.89%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     -0.5     -0.0927 µg/L      19.47354     -0.0927 ppb       19.47354 >999.9%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               45.2      1.2865 µg/L       0.30461      1.2865 ppb        0.30461  23.68%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                1.4      0.5393 µg/L       1.37639      0.5393 ppb        1.37639 255.23%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               13.1      0.1512 µg/L       0.02801      0.1512 ppb        0.02801  18.53%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -74.3     -0.1330 µg/L       0.07543     -0.1330 ppb        0.07543  56.72%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                2.0      2.4445 µg/L       4.47025      2.4445 ppb        4.47025 182.87%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -25.8     -7.2559 µg/L      11.09956     -7.2559 ppb       11.09956 152.97%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                36.3      0.2615 µg/L       0.23744      0.2615 ppb        0.23744  90.79%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -5.5     -0.0657 µg/L       0.10289     -0.0657 ppb        0.10289 156.60%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 27 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 09:11:34**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23898.2	23898.2	101	%			09:12:05
1	Al 396.153Radial†	2262.3	2355.6	4940.1	µg/L	4940.1	ppb	09:12:25
1	Ca 317.933Radial†	8208.6	8072.8	5087.5	µg/L	5087.5	ppb	09:12:25
1	Fe 238.204 Radial†	1710.6	1666.5	5151.6	µg/L	5151.6	ppb	09:12:25
1	K 766.490 Radial†	4408.3	3660.3	5017.5	µg/L	5017.5	ppb	09:12:05
1	Mg 279.077 IEC†	822.2	813.7	5243.9	µg/L	5243.9	ppb	09:12:25
1	Na 589.592 Radial†	7054.0	7056.8	9812.1	µg/L	9812.1	ppb	09:12:05
1	Sr 421.552†	42895.4	42589.7	491.74	µg/L	491.74	ppb	09:12:05
1	Sc 361.383	1302225.7	1302225.7	100.66	%			09:13:27
1	Y 371.029	751950.5	751950.5	98.455	%			09:13:27
1	Ag 328.068†	74494.4	73331.7	491.23	µg/L	491.23	ppb	09:13:29
1	As 188.979†	291.2	292.9	557.53	µg/L	557.53	ppb	09:13:49
1	B 249.677†	40943.0	40397.8	457.37	µg/L	457.37	ppb	09:13:29
1	Ba 233.527†	34908.6	34767.8	480.82	µg/L	480.82	ppb	09:13:29
1	Be 313.107†	1135867.2	1136362.8	480.10	µg/L	480.10	ppb	09:13:27
1	Cd 226.502†	31991.3	31886.8	475.59	µg/L	475.59	ppb	09:13:29
1	Co 228.616†	16945.3	16935.9	483.47	µg/L	483.47	ppb	09:13:29
1	Cr 267.716†	26931.4	26641.8	479.33	µg/L	479.33	ppb	09:13:29
1	Cu 324.752†	76829.8	72149.8	488.39	µg/L	488.39	ppb	09:13:29
1	Mn 257.610†	169424.6	168123.8	483.41	µg/L	483.41	ppb	09:13:29
1	Mo 202.031†	4608.3	4589.9	512.78	µg/L	512.78	ppb	09:13:49
1	Ni 231.604†	16822.7	16771.6	481.13	µg/L	481.13	ppb	09:13:29
1	P 214.914†	2286.6	2336.3	2369.3	µg/L	2369.3	ppb	09:13:49
1	Pb 220.353†	2594.1	2462.9	514.23	µg/L	514.23	ppb	09:13:49
1	S 181.975 Axial†	352.1	321.7	1008.6	µg/L	1008.6	ppb	09:13:49
1	Sb 206.836†	792.6	782.9	487.72	µg/L	487.72	ppb	09:13:49
1	Se 196.026†	408.3	393.8	514	µg/L	514	ppb	09:13:49
1	SiO2†	30345.1	28208.9	5107.0	µg/L	5107.0	ppb	09:13:29
1	Si 251.611†	83391.3	82452.7	2368.4	µg/L	2368.4	ppb	09:13:29
1	Sn 189.927†	1231.9	1223.1	488.59	µg/L	488.59	ppb	09:13:49
1	Ti 334.940†	265502.3	262216.1	483.81	µg/L	483.81	ppb	09:13:27
1	Tl 190.801†	429.2	444.4	529.84	µg/L	529.84	ppb	09:13:49
1	U 367.007†	2219.3	1912.1	510.59	µg/L	510.59	ppb	09:13:29
1	V 292.402†	69320.1	68563.8	486.47	µg/L	486.47	ppb	09:13:29
1	Zn 213.857†	39610.0	38800.6	475.65	µg/L	475.65	ppb	09:13:29
2	Sc RADIAL	23425.3	23425.3	98.7	%			09:12:27
2	Al 396.153Radial†	2246.7	2385.2	5002.5	µg/L	5002.5	ppb	09:12:47
2	Ca 317.933Radial†	8175.0	8203.3	5169.8	µg/L	5169.8	ppb	09:12:47
2	Fe 238.204 Radial†	1701.1	1691.2	5228.1	µg/L	5228.1	ppb	09:12:47
2	K 766.490 Radial†	4270.1	3608.7	4946.9	µg/L	4946.9	ppb	09:12:27
2	Mg 279.077 IEC†	817.9	825.9	5322.3	µg/L	5322.3	ppb	09:12:47
2	Na 589.592 Radial†	6807.5	6948.5	9661.4	µg/L	9661.4	ppb	09:12:27
2	Sr 421.552†	42285.4	42831.8	494.53	µg/L	494.53	ppb	09:12:27
2	Sc 361.383	1346338.4	1346338.4	104.07	%			09:13:51
2	Y 371.029	776780.1	776780.1	101.71	%			09:13:51
2	Ag 328.068†	77633.5	73923.3	495.18	µg/L	495.18	ppb	09:13:53
2	As 188.979†	285.0	277.5	528.40	µg/L	528.40	ppb	09:14:14
2	B 249.677†	42885.5	40931.7	463.43	µg/L	463.43	ppb	09:13:53
2	Ba 233.527†	36441.7	35104.8	485.48	µg/L	485.48	ppb	09:13:53
2	Be 313.107†	1204457.5	1165298.5	492.32	µg/L	492.32	ppb	09:13:51
2	Cd 226.502†	33749.1	32534.4	485.24	µg/L	485.24	ppb	09:13:53
2	Co 228.616†	17656.2	17067.4	487.19	µg/L	487.19	ppb	09:13:53
2	Cr 267.716†	28146.0	26932.2	484.57	µg/L	484.57	ppb	09:13:53
2	Cu 324.752†	79576.1	72287.9	489.34	µg/L	489.34	ppb	09:13:53
2	Mn 257.610†	176624.2	169527.1	487.44	µg/L	487.44	ppb	09:13:53
2	Mo 202.031†	4599.6	4431.4	495.10	µg/L	495.10	ppb	09:14:14
2	Ni 231.604†	17472.5	16848.4	483.34	µg/L	483.34	ppb	09:13:53
2	P 214.914†	2301.2	2275.9	2307.7	µg/L	2307.7	ppb	09:14:14
2	Pb 220.353†	2592.0	2376.4	496.20	µg/L	496.20	ppb	09:14:14

2	S 181.975 Axial†	352.9	311.0	975.01 µg/L	975.01 ppb	09:14:14
2	Sb 206.836†	785.7	750.5	467.36 µg/L	467.36 ppb	09:14:14
2	Se 196.026†	405.8	378.1	494 µg/L	494 ppb	09:14:14
2	SiO2†	31521.7	28351.8	5132.9 µg/L	5132.9 ppb	09:13:53
2	Si 251.611†	87024.1	83229.1	2391.0 µg/L	2391.0 ppb	09:13:53
2	Sn 189.927†	1235.0	1186.0	473.82 µg/L	473.82 ppb	09:14:14
2	Ti 334.940†	279743.7	267258.5	493.13 µg/L	493.13 ppb	09:13:51
2	Tl 190.801†	437.1	438.0	522.18 µg/L	522.18 ppb	09:14:14
2	U 367.007†	2266.5	1885.1	502.54 µg/L	502.54 ppb	09:13:53
2	V 292.402†	72175.6	69051.2	489.67 µg/L	489.67 ppb	09:13:53
2	Zn 213.857†	41615.8	39438.6	483.52 µg/L	483.52 ppb	09:13:53
3	Sc RADIAL	23708.0	23708.0	99.9 %		09:12:49
3	Al 396.153Radial†	2211.7	2323.0	4871.8 µg/L	4871.8 ppb	09:13:09
3	Ca 317.933Radial†	8071.6	8001.0	5042.3 µg/L	5042.3 ppb	09:13:09
3	Fe 238.204 Radial†	1681.2	1650.6	5102.2 µg/L	5102.2 ppb	09:13:09
3	K 766.490 Radial†	4265.8	3552.7	4870.5 µg/L	4870.5 ppb	09:12:49
3	Mg 279.077 IEC†	809.4	807.5	5203.9 µg/L	5203.9 ppb	09:13:09
3	Na 589.592 Radial†	6851.2	6909.9	9607.8 µg/L	9607.8 ppb	09:12:49
3	Sr 421.552†	42805.1	42841.1	494.64 µg/L	494.64 ppb	09:12:49
3	Sc 361.383	1349419.3	1349419.3	104.31 %		09:14:16
3	Y 371.029	778624.3	778624.3	101.95 %		09:14:16
3	Ag 328.068†	78673.5	74750.1	500.73 µg/L	500.73 ppb	09:14:18
3	As 188.979†	290.7	282.3	537.64 µg/L	537.64 ppb	09:14:38
3	B 249.677†	43584.0	41507.2	470.76 µg/L	470.76 ppb	09:14:18
3	Ba 233.527†	36919.4	35482.8	490.71 µg/L	490.71 ppb	09:14:18
3	Be 313.107†	1204496.7	1162693.7	491.22 µg/L	491.22 ppb	09:14:16
3	Cd 226.502†	34156.8	32851.3	490.00 µg/L	490.00 ppb	09:14:18
3	Co 228.616†	17969.0	17328.6	494.66 µg/L	494.66 ppb	09:14:18
3	Cr 267.716†	28452.1	27163.9	488.73 µg/L	488.73 ppb	09:14:18
3	Cu 324.752†	80314.0	72820.7	492.92 µg/L	492.92 ppb	09:14:18
3	Mn 257.610†	179371.7	171773.7	493.90 µg/L	493.90 ppb	09:14:18
3	Mo 202.031†	4655.6	4475.0	499.96 µg/L	499.96 ppb	09:14:38
3	Ni 231.604†	17965.2	17282.5	495.79 µg/L	495.79 ppb	09:14:18
3	P 214.914†	2311.2	2280.5	2312.5 µg/L	2312.5 ppb	09:14:38
3	Pb 220.353†	2615.6	2393.4	499.73 µg/L	499.73 ppb	09:14:38
3	S 181.975 Axial†	361.4	318.3	998.07 µg/L	998.07 ppb	09:14:38
3	Sb 206.836†	804.4	766.6	477.42 µg/L	477.42 ppb	09:14:38
3	Se 196.026†	420.2	391.0	511 µg/L	511 ppb	09:14:38
3	SiO2†	31994.3	28735.7	5202.4 µg/L	5202.4 ppb	09:14:18
3	Si 251.611†	88094.5	84064.3	2414.9 µg/L	2414.9 ppb	09:14:18
3	Sn 189.927†	1247.9	1195.7	477.66 µg/L	477.66 ppb	09:14:38
3	Ti 334.940†	279539.5	266449.0	491.62 µg/L	491.62 ppb	09:14:16
3	Tl 190.801†	435.5	435.5	519.05 µg/L	519.05 ppb	09:14:38
3	U 367.007†	2291.9	1904.5	508.66 µg/L	508.66 ppb	09:14:18
3	V 292.402†	73308.6	69979.0	496.20 µg/L	496.20 ppb	09:14:18
3	Zn 213.857†	42259.6	39964.5	489.95 µg/L	489.95 ppb	09:14:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1332661.1	103.01	%	2.041				1.98%
Sc RADIAL	23677.2	99.7	%	1.00				1.00%
Y 371.029	769118.3	100.70	%	1.950				1.94%
Ag 328.068†	74001.7	495.71	µg/L	4.774	495.71	ppb	4.774	0.96%
QC value within limits for Ag 328.068 Recovery = 99.14%								
Al 396.153Radial†	2354.6	4938.2	µg/L	65.36	4938.2	ppb	65.36	1.32%
QC value within limits for Al 396.153Radial Recovery = 98.76%								
As 188.979†	284.2	541.19	µg/L	14.885	541.19	ppb	14.885	2.75%
QC value within limits for As 188.979 Recovery = 108.24%								
B 249.677†	40945.6	463.85	µg/L	6.704	463.85	ppb	6.704	1.45%
QC value within limits for B 249.677 Recovery = 92.77%								
Ba 233.527†	35118.5	485.67	µg/L	4.948	485.67	ppb	4.948	1.02%
QC value within limits for Ba 233.527 Recovery = 97.13%								
Be 313.107†	1154785.0	487.88	µg/L	6.763	487.88	ppb	6.763	1.39%
QC value within limits for Be 313.107 Recovery = 97.58%								
Ca 317.933Radial†	8092.4	5099.9	µg/L	64.65	5099.9	ppb	64.65	1.27%
QC value within limits for Ca 317.933Radial Recovery = 102.00%								
Cd 226.502†	32424.2	483.61	µg/L	7.344	483.61	ppb	7.344	1.52%
QC value within limits for Cd 226.502 Recovery = 96.72%								
Co 228.616†	17110.6	488.44	µg/L	5.700	488.44	ppb	5.700	1.17%

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   QC value within limits for Co 228.616  Recovery = 97.69%
Cr 267.716†            26912.6      484.21 µg/L         4.709      484.21 ppb          4.709   0.97%
   QC value within limits for Cr 267.716  Recovery = 96.84%
Cu 324.752†            72419.5      490.22 µg/L         2.392      490.22 ppb          2.392   0.49%
   QC value within limits for Cu 324.752  Recovery = 98.04%
Fe 238.204 Radial†      1669.4      5160.6 µg/L         63.44      5160.6 ppb          63.44   1.23%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.21%
K 766.490 Radial†       3607.2      4945.0 µg/L         73.53      4945.0 ppb          73.53   1.49%
   QC value within limits for K 766.490 Radial  Recovery = 98.90%
Mg 279.077 IEC†          815.7      5256.7 µg/L         60.22      5256.7 ppb          60.22   1.15%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.13%
Mn 257.610†           169808.2      488.25 µg/L         5.294      488.25 ppb          5.294   1.08%
   QC value within limits for Mn 257.610  Recovery = 97.65%
Mo 202.031†             4498.8      502.62 µg/L         9.135      502.62 ppb          9.135   1.82%
   QC value within limits for Mo 202.031  Recovery = 100.52%
Na 589.592 Radial†      6971.7      9693.8 µg/L        105.92      9693.8 ppb         105.92   1.09%
   QC value within limits for Na 589.592 Radial  Recovery = 96.94%
Ni 231.604†            16967.5      486.75 µg/L         7.903      486.75 ppb          7.903   1.62%
   QC value within limits for Ni 231.604  Recovery = 97.35%
P 214.914†              2297.6      2329.8 µg/L         34.28      2329.8 ppb          34.28   1.47%
   QC value within limits for P 214.914  Recovery = 93.19%
Pb 220.353†             2410.9      503.39 µg/L         9.558      503.39 ppb          9.558   1.90%
   QC value within limits for Pb 220.353  Recovery = 100.68%
S 181.975 Axial†         317.0      993.88 µg/L        17.164      993.88 ppb         17.164   1.73%
   QC value within limits for S 181.975 Axial  Recovery = 99.39%
Sb 206.836†              766.6      477.50 µg/L        10.180      477.50 ppb         10.180   2.13%
   QC value within limits for Sb 206.836  Recovery = 95.50%
Se 196.026†              387.7         506 µg/L          10.8         506 ppb           10.8   2.14%
   QC value within limits for Se 196.026  Recovery = 101.25%
SiO2†                  28432.2      5147.4 µg/L         49.32      5147.4 ppb          49.32   0.96%
   QC value within limits for SiO2  Recovery = 96.26%
Si 251.611†            83248.7      2391.4 µg/L         23.29      2391.4 ppb          23.29   0.97%
   QC value within limits for Si 251.611  Recovery = 95.66%
Sn 189.927†             1201.6      480.02 µg/L         7.664      480.02 ppb          7.664   1.60%
   QC value within limits for Sn 189.927  Recovery = 96.00%
Sr 421.552†            42754.2      493.64 µg/L         1.645      493.64 ppb          1.645   0.33%
   QC value within limits for Sr 421.552  Recovery = 98.73%
Ti 334.940†           265307.9      489.52 µg/L         5.000      489.52 ppb          5.000   1.02%
   QC value within limits for Ti 334.940  Recovery = 97.90%
Tl 190.801†              439.3      523.69 µg/L         5.552      523.69 ppb          5.552   1.06%
   QC value within limits for Tl 190.801  Recovery = 104.74%
U 367.007†              1900.6      507.26 µg/L         4.204      507.26 ppb          4.204   0.83%
   QC value within limits for U 367.007  Recovery = 101.45%
V 292.402†             69198.0      490.78 µg/L         4.957      490.78 ppb          4.957   1.01%
   QC value within limits for V 292.402  Recovery = 98.16%
Zn 213.857†            39401.2      483.04 µg/L         7.162      483.04 ppb          7.162   1.48%
   QC value within limits for Zn 213.857  Recovery = 96.61%
All analyte(s) passed QC.
```

Sequence No.: 28 **Autosampler Location: 109**
Sample ID: PQL **Date Collected: 11/6/2013 09:14:46**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22337.2	22337.2	94.1	%			09:15:36
1	Al 396.153Radial†	-16.4	90.5	189.95	µg/L	189.95	ppb	09:15:36
1	Ca 317.933Radial†	425.9	370.3	233.32	µg/L	233.32	ppb	09:15:56
1	Fe 238.204 Radial†	63.9	34.9	108.12	µg/L	108.12	ppb	09:15:56
1	K 766.490 Radial†	835.7	169.0	231.33	µg/L	231.33	ppb	09:15:36
1	Mg 279.077 IEC†	54.6	54.9	353.90	µg/L	353.90	ppb	09:15:56
1	Na 589.592 Radial†	139.7	197.1	274.11	µg/L	274.11	ppb	09:15:36
1	Sr 421.552†	443.3	444.4	5.1296	µg/L	5.1296	ppb	09:15:36
1	Sc 361.383	1319997.6	1319997.6	102.03	%			09:17:34
1	Y 371.029	776658.2	776658.2	101.69	%			09:17:34
1	Ag 328.068†	1519.0	813.5	5.3903	µg/L	5.3903	ppb	09:17:36
1	As 188.979†	12.9	16.2	30.643	µg/L	30.643	ppb	09:17:56
1	B 249.677†	4523.5	4156.1	48.603	µg/L	48.603	ppb	09:17:36
1	Ba 233.527†	289.0	370.9	5.1297	µg/L	5.1297	ppb	09:17:56
1	Be 313.107†	3824.7	11676.5	4.9332	µg/L	4.9332	ppb	09:17:36
1	Cd 226.502†	257.7	357.3	5.3234	µg/L	5.3234	ppb	09:17:56
1	Co 228.616†	97.6	197.1	5.6329	µg/L	5.6329	ppb	09:17:56
1	Cr 267.716†	412.6	291.0	5.1902	µg/L	5.1902	ppb	09:17:56
1	Cu 324.752†	5788.2	1495.6	10.150	µg/L	10.150	ppb	09:17:36
1	Mn 257.610†	3893.9	3624.2	10.412	µg/L	10.412	ppb	09:17:36
1	Mo 202.031†	86.1	96.1	10.745	µg/L	10.745	ppb	09:17:56
1	Ni 231.604†	154.9	210.8	6.0472	µg/L	6.0472	ppb	09:17:56
1	P 214.914†	68.7	132.0	134.40	µg/L	134.40	ppb	09:17:56
1	Pb 220.353†	153.2	35.9	7.4483	µg/L	7.4483	ppb	09:17:56
1	S 181.975 Axial†	62.3	33.0	103.73	µg/L	103.73	ppb	09:17:56
1	Sb 206.836†	18.2	13.3	8.3445	µg/L	8.3445	ppb	09:17:56
1	Se 196.026†	36.0	23.5	30.6	µg/L	30.6	ppb	09:17:56
1	SiO2†	3215.8	1214.1	219.51	µg/L	219.51	ppb	09:17:36
1	Si 251.611†	4009.4	3536.6	101.72	µg/L	101.72	ppb	09:17:36
1	Sn 189.927†	26.0	24.7	9.8982	µg/L	9.8982	ppb	09:17:56
1	Ti 334.940†	4281.1	2647.0	4.8568	µg/L	4.8568	ppb	09:17:36
1	Tl 190.801†	3.4	21.4	25.634	µg/L	25.634	ppb	09:17:56
1	U 367.007†	555.6	251.8	70.549	µg/L	70.549	ppb	09:17:36
1	V 292.402†	1116.2	791.2	5.7172	µg/L	5.7172	ppb	09:17:36
1	Zn 213.857†	1424.5	845.9	10.388	µg/L	10.388	ppb	09:17:56
2	Sc RADIAL	23691.3	23691.3	99.8	%			09:16:16
2	Al 396.153Radial†	-9.4	98.6	206.94	µg/L	206.94	ppb	09:16:16
2	Ca 317.933Radial†	418.7	337.2	212.48	µg/L	212.48	ppb	09:16:36
2	Fe 238.204 Radial†	68.3	35.5	109.78	µg/L	109.78	ppb	09:16:36
2	K 766.490 Radial†	873.8	156.4	214.10	µg/L	214.10	ppb	09:16:16
2	Mg 279.077 IEC†	54.2	51.2	330.10	µg/L	330.10	ppb	09:16:36
2	Na 589.592 Radial†	143.1	192.1	267.06	µg/L	267.06	ppb	09:16:16
2	Sr 421.552†	470.8	445.0	5.1362	µg/L	5.1362	ppb	09:16:16
2	Sc 361.383	1345640.6	1345640.6	104.01	%			09:17:58
2	Y 371.029	792310.8	792310.8	103.74	%			09:17:58
2	Ag 328.068†	1585.3	848.9	5.6303	µg/L	5.6303	ppb	09:18:00
2	As 188.979†	8.9	12.2	22.995	µg/L	22.995	ppb	09:18:20
2	B 249.677†	4537.5	4085.1	47.764	µg/L	47.764	ppb	09:18:00
2	Ba 233.527†	290.6	367.1	5.0746	µg/L	5.0746	ppb	09:18:20
2	Be 313.107†	3945.1	11720.8	4.9519	µg/L	4.9519	ppb	09:18:00
2	Cd 226.502†	256.6	351.5	5.2359	µg/L	5.2359	ppb	09:18:20
2	Co 228.616†	86.8	184.9	5.2847	µg/L	5.2847	ppb	09:18:20
2	Cr 267.716†	397.3	268.6	4.7911	µg/L	4.7911	ppb	09:18:20
2	Cu 324.752†	5869.3	1465.4	9.9431	µg/L	9.9431	ppb	09:18:00
2	Mn 257.610†	3910.6	3567.5	10.250	µg/L	10.250	ppb	09:18:00
2	Mo 202.031†	90.0	98.2	10.985	µg/L	10.985	ppb	09:18:20
2	Ni 231.604†	138.8	192.5	5.5216	µg/L	5.5216	ppb	09:18:20
2	P 214.914†	78.5	140.1	142.73	µg/L	142.73	ppb	09:18:20
2	Pb 220.353†	166.9	46.2	9.5997	µg/L	9.5997	ppb	09:18:20

2	S 181.975 Axial†	59.7	29.3	91.960 µg/L	91.960 ppb	09:18:20
2	Sb 206.836†	12.8	7.7	4.8712 µg/L	4.8712 ppb	09:18:20
2	Se 196.026†	37.5	24.2	31.6 µg/L	31.6 ppb	09:18:20
2	SiO2†	3198.1	1137.1	205.58 µg/L	205.58 ppb	09:18:00
2	Si 251.611†	4071.8	3521.7	101.29 µg/L	101.29 ppb	09:18:00
2	Sn 189.927†	26.3	24.6	9.8205 µg/L	9.8205 ppb	09:18:20
2	Ti 334.940†	4246.9	2534.1	4.6510 µg/L	4.6510 ppb	09:18:00
2	Tl 190.801†	0.8	18.7	22.461 µg/L	22.461 ppb	09:18:20
2	U 367.007†	542.0	228.4	63.927 µg/L	63.927 ppb	09:18:00
2	V 292.402†	1000.8	659.4	4.7962 µg/L	4.7962 ppb	09:18:00
2	Zn 213.857†	1417.3	812.4	9.9772 µg/L	9.9772 ppb	09:18:20
3	Sc RADIAL	23285.6	23285.6	98.1 %		09:16:56
3	Al 396.153Radial†	-4.4	103.5	217.26 µg/L	217.26 ppb	09:16:56
3	Ca 317.933Radial†	415.2	340.9	214.82 µg/L	214.82 ppb	09:17:16
3	Fe 238.204 Radial†	65.4	33.7	104.18 µg/L	104.18 ppb	09:17:16
3	K 766.490 Radial†	847.0	144.3	197.52 µg/L	197.52 ppb	09:16:56
3	Mg 279.077 IEC†	58.7	56.7	365.47 µg/L	365.47 ppb	09:17:16
3	Na 589.592 Radial†	150.0	201.6	280.34 µg/L	280.34 ppb	09:16:56
3	Sr 421.552†	472.6	455.0	5.2526 µg/L	5.2526 ppb	09:16:56
3	Sc 361.383	1333227.2	1333227.2	103.05 %		09:18:22
3	Y 371.029	784434.5	784434.5	102.71 %		09:18:22
3	Ag 328.068†	1419.4	702.1	4.6583 µg/L	4.6583 ppb	09:18:24
3	As 188.979†	13.6	16.8	31.672 µg/L	31.672 ppb	09:18:44
3	B 249.677†	4445.0	4035.9	47.212 µg/L	47.212 ppb	09:18:24
3	Ba 233.527†	291.3	370.4	5.1221 µg/L	5.1221 ppb	09:18:44
3	Be 313.107†	4066.4	11873.8	5.0165 µg/L	5.0165 ppb	09:18:24
3	Cd 226.502†	255.8	352.9	5.2577 µg/L	5.2577 ppb	09:18:44
3	Co 228.616†	94.7	193.3	5.5254 µg/L	5.5254 ppb	09:18:44
3	Cr 267.716†	423.9	297.9	5.3240 µg/L	5.3240 ppb	09:18:44
3	Cu 324.752†	5839.1	1488.7	10.097 µg/L	10.097 ppb	09:18:24
3	Mn 257.610†	3957.4	3647.9	10.480 µg/L	10.480 ppb	09:18:24
3	Mo 202.031†	89.5	98.6	11.022 µg/L	11.022 ppb	09:18:44
3	Ni 231.604†	118.2	173.7	4.9834 µg/L	4.9834 ppb	09:18:44
3	P 214.914†	60.3	123.2	125.42 µg/L	125.42 ppb	09:18:44
3	Pb 220.353†	164.5	45.4	9.4489 µg/L	9.4489 ppb	09:18:44
3	S 181.975 Axial†	54.9	25.2	78.986 µg/L	78.986 ppb	09:18:44
3	Sb 206.836†	22.7	17.5	10.941 µg/L	10.941 ppb	09:18:44
3	Se 196.026†	40.6	27.6	36.0 µg/L	36.0 ppb	09:18:44
3	SiO2†	3242.5	1208.8	218.55 µg/L	218.55 ppb	09:18:24
3	Si 251.611†	4074.6	3560.9	102.42 µg/L	102.42 ppb	09:18:24
3	Sn 189.927†	32.1	30.4	12.170 µg/L	12.170 ppb	09:18:44
3	Ti 334.940†	4386.1	2707.2	4.9741 µg/L	4.9741 ppb	09:18:24
3	Tl 190.801†	1.7	19.6	23.513 µg/L	23.513 ppb	09:18:44
3	U 367.007†	510.6	202.7	56.697 µg/L	56.697 ppb	09:18:24
3	V 292.402†	1105.6	770.1	5.5648 µg/L	5.5648 ppb	09:18:24
3	Zn 213.857†	1427.2	834.7	10.256 µg/L	10.256 ppb	09:18:44

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1332955.1	103.03	%	0.991				0.96%
Sc RADIAL	23104.7	97.3	%	2.93				3.01%
Y 371.029	784467.8	102.71	%	1.025				1.00%
Ag 328.068†	788.2	5.2263	µg/L	0.50630	5.2263	ppb	0.50630	9.69%
QC value within limits for Ag 328.068 Recovery = 104.53%								
Al 396.153Radial†	97.6	204.72	µg/L	13.790	204.72	ppb	13.790	6.74%
QC value within limits for Al 396.153Radial Recovery = 102.36%								
As 188.979†	15.1	28.437	µg/L	4.7405	28.437	ppb	4.7405	16.67%
QC value within limits for As 188.979 Recovery = 94.79%								
B 249.677†	4092.4	47.860	µg/L	0.7005	47.860	ppb	0.7005	1.46%
QC value within limits for B 249.677 Recovery = 95.72%								
Ba 233.527†	369.4	5.1088	µg/L	0.02986	5.1088	ppb	0.02986	0.58%
QC value within limits for Ba 233.527 Recovery = 102.18%								
Be 313.107†	11757.1	4.9672	µg/L	0.04373	4.9672	ppb	0.04373	0.88%
QC value within limits for Be 313.107 Recovery = 99.34%								
Ca 317.933Radial†	349.5	220.21	µg/L	11.418	220.21	ppb	11.418	5.19%
QC value within limits for Ca 317.933Radial Recovery = 110.10%								
Cd 226.502†	353.9	5.2724	µg/L	0.04554	5.2724	ppb	0.04554	0.86%
QC value within limits for Cd 226.502 Recovery = 105.45%								
Co 228.616†	191.8	5.4810	µg/L	0.17830	5.4810	ppb	0.17830	3.25%

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   QC value within limits for Co 228.616  Recovery = 109.62%
Cr 267.716†              285.8      5.1017 µg/L       0.27726      5.1017 ppb        0.27726   5.43%
   QC value within limits for Cr 267.716  Recovery = 102.03%
Cu 324.752†             1483.3      10.063 µg/L        0.1075      10.063 ppb         0.1075   1.07%
   QC value within limits for Cu 324.752  Recovery = 100.63%
Fe 238.204 Radial†        34.7      107.36 µg/L         2.877      107.36 ppb          2.877   2.68%
   QC value within limits for Fe 238.204 Radial  Recovery = 107.36%
K 766.490 Radial†        156.6      214.32 µg/L        16.905      214.32 ppb         16.905   7.89%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 142.88%
Mg 279.077 IEC†           54.3      349.83 µg/L        18.033      349.83 ppb         18.033   5.15%
   QC value within limits for Mg 279.077 IEC  Recovery = 116.61%
Mn 257.610†             3613.2      10.381 µg/L        0.1181      10.381 ppb         0.1181   1.14%
   QC value within limits for Mn 257.610  Recovery = 103.81%
Mo 202.031†               97.6      10.917 µg/L        0.1501      10.917 ppb         0.1501   1.38%
   QC value within limits for Mo 202.031  Recovery = 109.17%
Na 589.592 Radial†       196.9      273.84 µg/L         6.640      273.84 ppb          6.640   2.42%
   QC value within limits for Na 589.592 Radial  Recovery = 91.28%
Ni 231.604†              192.3      5.5174 µg/L       0.53191      5.5174 ppb        0.53191   9.64%
   QC value within limits for Ni 231.604  Recovery = 110.35%
P 214.914†               131.8      134.18 µg/L         8.660      134.18 ppb          8.660   6.45%
   QC value within limits for P 214.914  Recovery = 89.46%
Pb 220.353†               42.5      8.8323 µg/L       1.20094      8.8323 ppb        1.20094  13.60%
   QC value within limits for Pb 220.353  Recovery = 88.32%
S 181.975 Axial†          29.1      91.560 µg/L       12.3780      91.560 ppb        12.3780  13.52%
   QC value within limits for S 181.975 Axial  Recovery = 91.56%
Sb 206.836†               12.9      8.0523 µg/L       3.04544      8.0523 ppb        3.04544  37.82%
   QC value within limits for Sb 206.836  Recovery = 80.52%
Se 196.026†               25.1        32.7 µg/L          2.87        32.7 ppb           2.87   8.78%
   QC value within limits for Se 196.026  Recovery = 109.05%
SiO2†                    1186.7      214.54 µg/L         7.780      214.54 ppb          7.780   3.63%
   QC value within limits for SiO2  Recovery = 100.72%
Si 251.611†              3539.7      101.81 µg/L         0.568      101.81 ppb          0.568   0.56%
   QC value within limits for Si 251.611  Recovery = 101.81%
Sn 189.927†               26.6      10.629 µg/L        1.3344      10.629 ppb         1.3344  12.55%
   QC value within limits for Sn 189.927  Recovery = 106.29%
Sr 421.552†              448.1      5.1728 µg/L       0.06920      5.1728 ppb        0.06920   1.34%
   QC value within limits for Sr 421.552  Recovery = 103.46%
Ti 334.940†              2629.4      4.8273 µg/L       0.16352      4.8273 ppb        0.16352   3.39%
   QC value within limits for Ti 334.940  Recovery = 96.55%
Tl 190.801†               19.9      23.869 µg/L        1.6161      23.869 ppb         1.6161   6.77%
   QC value within limits for Tl 190.801  Recovery = 119.35%
U 367.007†               227.6      63.724 µg/L        6.9284      63.724 ppb         6.9284  10.87%
   QC value within limits for U 367.007  Recovery = 127.45%
V 292.402†               740.2      5.3594 µg/L       0.49365      5.3594 ppb        0.49365   9.21%
   QC value within limits for V 292.402  Recovery = 107.19%
Zn 213.857†              831.0      10.207 µg/L        0.2096      10.207 ppb         0.2096   2.05%
   QC value within limits for Zn 213.857  Recovery = 102.07%
QC Failed.  Continue with analysis.
```

Sequence No.: 29 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 09:18:53**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23487.7	23487.7	98.9	%			09:19:44
1	Al 396.153Radial†	-98.0	8.9	18.665	µg/L	18.665	ppb	09:19:44
1	Ca 317.933Radial†	94.0	12.6	7.9201	µg/L	7.9201	ppb	09:20:04
1	Fe 238.204 Radial†	31.2	-1.5	-4.5416	µg/L	-4.5416	ppb	09:20:04
1	K 766.490 Radial†	725.0	13.5	18.456	µg/L	18.456	ppb	09:19:44
1	Mg 279.077 IEC†	5.0	2.0	12.673	µg/L	12.673	ppb	09:20:04
1	Na 589.592 Radial†	-40.9	7.3	10.165	µg/L	10.165	ppb	09:19:44
1	Sr 421.552†	34.6	8.1	0.0934	µg/L	0.0934	ppb	09:19:44
1	Sc 361.383	1314427.5	1314427.5	101.60	%			09:21:41
1	Y 371.029	773106.3	773106.3	101.22	%			09:21:41
1	Ag 328.068†	667.3	-18.4	-0.1429	µg/L	-0.1429	ppb	09:21:43
1	As 188.979†	-1.2	2.5	4.6721	µg/L	4.6721	ppb	09:22:03
1	B 249.677†	323.1	40.7	0.4925	µg/L	0.4925	ppb	09:21:43
1	Ba 233.527†	-80.6	8.3	0.1164	µg/L	0.1164	ppb	09:22:03
1	Be 313.107†	-8546.0	-483.2	-0.2042	µg/L	-0.2042	ppb	09:21:43
1	Cd 226.502†	-107.5	-1.0	-0.0149	µg/L	-0.0149	ppb	09:22:03
1	Co 228.616†	-86.6	16.2	0.4635	µg/L	0.4635	ppb	09:22:03
1	Cr 267.716†	109.0	-6.1	-0.1268	µg/L	-0.1268	ppb	09:22:03
1	Cu 324.752†	4420.1	173.1	1.1798	µg/L	1.1798	ppb	09:21:43
1	Mn 257.610†	218.8	23.2	0.0660	µg/L	0.0660	ppb	09:22:03
1	Mo 202.031†	-1.5	10.2	1.1434	µg/L	1.1434	ppb	09:22:03
1	Ni 231.604†	-71.0	-10.9	-0.3131	µg/L	-0.3131	ppb	09:22:03
1	P 214.914†	-85.5	-19.5	-19.870	µg/L	-19.870	ppb	09:22:03
1	Pb 220.353†	126.1	9.9	2.0476	µg/L	2.0476	ppb	09:22:03
1	S 181.975 Axial†	39.4	10.7	33.576	µg/L	33.576	ppb	09:22:03
1	Sb 206.836†	1.0	-3.6	-2.2095	µg/L	-2.2095	ppb	09:22:03
1	Se 196.026†	12.8	0.8	1.01	µg/L	1.01	ppb	09:22:03
1	SiO2†	2008.3	39.1	7.0589	µg/L	7.0589	ppb	09:21:43
1	Si 251.611†	448.2	48.2	1.3729	µg/L	1.3729	ppb	09:22:03
1	Sn 189.927†	7.7	6.9	2.7439	µg/L	2.7439	ppb	09:22:03
1	Ti 334.940†	1744.1	167.7	0.2974	µg/L	0.2974	ppb	09:21:43
1	Tl 190.801†	-13.4	4.8	5.8128	µg/L	5.8128	ppb	09:22:03
1	U 367.007†	385.4	86.5	24.497	µg/L	24.497	ppb	09:21:43
1	V 292.402†	388.2	79.3	0.5801	µg/L	0.5801	ppb	09:21:43
1	Zn 213.857†	567.7	8.5	0.1070	µg/L	0.1070	ppb	09:22:03
2	Sc RADIAL	23352.6	23352.6	98.4	%			09:20:24
2	Al 396.153Radial†	-99.9	6.4	13.508	µg/L	13.508	ppb	09:20:24
2	Ca 317.933Radial†	81.3	0.2	0.1192	µg/L	0.1192	ppb	09:20:44
2	Fe 238.204 Radial†	28.6	-4.0	-12.263	µg/L	-12.263	ppb	09:20:44
2	K 766.490 Radial†	747.8	40.9	56.018	µg/L	56.018	ppb	09:20:24
2	Mg 279.077 IEC†	5.3	2.3	14.860	µg/L	14.860	ppb	09:20:44
2	Na 589.592 Radial†	-42.5	5.5	7.6126	µg/L	7.6126	ppb	09:20:24
2	Sr 421.552†	30.3	4.0	0.0458	µg/L	0.0458	ppb	09:20:24
2	Sc 361.383	1364002.9	1364002.9	105.43	%			09:22:05
2	Y 371.029	803519.2	803519.2	105.21	%			09:22:05
2	Ag 328.068†	595.9	-110.0	-0.7453	µg/L	-0.7453	ppb	09:22:07
2	As 188.979†	-5.0	-1.1	-2.0837	µg/L	-2.0837	ppb	09:22:27
2	B 249.677†	284.6	-7.3	-0.0609	µg/L	-0.0609	ppb	09:22:07
2	Ba 233.527†	-83.7	8.3	0.1148	µg/L	0.1148	ppb	09:22:27
2	Be 313.107†	-8690.5	-314.6	-0.1329	µg/L	-0.1329	ppb	09:22:07
2	Cd 226.502†	-113.2	-2.6	-0.0371	µg/L	-0.0371	ppb	09:22:27
2	Co 228.616†	-88.4	17.6	0.5034	µg/L	0.5034	ppb	09:22:27
2	Cr 267.716†	109.2	-9.9	-0.1867	µg/L	-0.1867	ppb	09:22:27
2	Cu 324.752†	4299.9	-99.0	-0.6646	µg/L	-0.6646	ppb	09:22:07
2	Mn 257.610†	204.0	1.3	0.0029	µg/L	0.0029	ppb	09:22:27
2	Mo 202.031†	0.6	12.3	1.3690	µg/L	1.3690	ppb	09:22:27
2	Ni 231.604†	-55.2	6.7	0.1914	µg/L	0.1914	ppb	09:22:27
2	P 214.914†	-72.4	-4.0	-4.0858	µg/L	-4.0858	ppb	09:22:27
2	Pb 220.353†	92.7	-26.4	-5.4952	µg/L	-5.4952	ppb	09:22:27

2	S 181.975 Axial†	32.0	2.3	7.0946	µg/L	7.0946	ppb	09:22:27
2	Sb 206.836†	0.1	-4.4	-2.7457	µg/L	-2.7457	ppb	09:22:27
2	Se 196.026†	16.0	3.3	4.30	µg/L	4.30	ppb	09:22:27
2	SiO2†	1980.1	-59.5	-10.754	µg/L	-10.754	ppb	09:22:07
2	Si 251.611†	436.0	20.6	0.5729	µg/L	0.5729	ppb	09:22:27
2	Sn 189.927†	2.0	1.2	0.4731	µg/L	0.4731	ppb	09:22:27
2	Ti 334.940†	1611.1	-20.8	-0.0450	µg/L	-0.0450	ppb	09:22:07
2	Tl 190.801†	-18.2	0.7	0.8232	µg/L	0.8232	ppb	09:22:27
2	U 367.007†	356.4	45.3	12.872	µg/L	12.872	ppb	09:22:07
2	V 292.402†	341.1	20.7	0.1667	µg/L	0.1667	ppb	09:22:07
2	Zn 213.857†	570.2	-9.4	-0.1156	µg/L	-0.1156	ppb	09:22:27
3	Sc RADIAL	23463.5	23463.5	98.8	%			09:21:04
3	Al 396.153Radial†	-113.0	-6.3	-13.256	µg/L	-13.256	ppb	09:21:04
3	Ca 317.933Radial†	86.4	5.0	3.1638	µg/L	3.1638	ppb	09:21:24
3	Fe 238.204 Radial†	26.7	-6.0	-18.494	µg/L	-18.494	ppb	09:21:24
3	K 766.490 Radial†	726.0	15.3	20.991	µg/L	20.991	ppb	09:21:04
3	Mg 279.077 IEC†	3.8	0.7	4.6109	µg/L	4.6109	ppb	09:21:24
3	Na 589.592 Radial†	-47.9	0.2	0.2878	µg/L	0.2878	ppb	09:21:04
3	Sr 421.552†	25.6	-1.0	-0.0113	µg/L	-0.0113	ppb	09:21:04
3	Sc 361.383	1341929.1	1341929.1	103.73	%			09:22:29
3	Y 371.029	789101.8	789101.8	103.32	%			09:22:29
3	Ag 328.068†	611.1	-86.1	-0.5698	µg/L	-0.5698	ppb	09:22:31
3	As 188.979†	-3.7	0.1	0.2107	µg/L	0.2107	ppb	09:22:51
3	B 249.677†	352.1	62.1	0.7952	µg/L	0.7952	ppb	09:22:31
3	Ba 233.527†	-90.7	0.2	0.0026	µg/L	0.0026	ppb	09:22:51
3	Be 313.107†	-8619.7	-381.9	-0.1613	µg/L	-0.1613	ppb	09:22:31
3	Cd 226.502†	-108.0	0.7	0.0128	µg/L	0.0128	ppb	09:22:51
3	Co 228.616†	-104.3	0.9	0.0256	µg/L	0.0256	ppb	09:22:51
3	Cr 267.716†	128.9	10.8	0.1988	µg/L	0.1988	ppb	09:22:51
3	Cu 324.752†	4274.2	-56.7	-0.3885	µg/L	-0.3885	ppb	09:22:31
3	Mn 257.610†	202.8	3.4	0.0090	µg/L	0.0090	ppb	09:22:51
3	Mo 202.031†	-7.5	4.4	0.4942	µg/L	0.4942	ppb	09:22:51
3	Ni 231.604†	-51.2	9.7	0.2778	µg/L	0.2778	ppb	09:22:51
3	P 214.914†	-75.2	-7.9	-7.9937	µg/L	-7.9937	ppb	09:22:51
3	Pb 220.353†	112.4	-5.9	-1.2254	µg/L	-1.2254	ppb	09:22:51
3	S 181.975 Axial†	27.0	-2.1	-6.5541	µg/L	-6.5541	ppb	09:22:51
3	Sb 206.836†	-4.8	-9.2	-5.7147	µg/L	-5.7147	ppb	09:22:51
3	Se 196.026†	17.3	4.8	6.29	µg/L	6.29	ppb	09:22:51
3	SiO2†	2026.4	16.0	2.8985	µg/L	2.8985	ppb	09:22:31
3	Si 251.611†	438.2	29.5	0.8410	µg/L	0.8410	ppb	09:22:51
3	Sn 189.927†	6.3	5.3	2.1257	µg/L	2.1257	ppb	09:22:51
3	Ti 334.940†	1608.7	2.0	0.0072	µg/L	0.0072	ppb	09:22:31
3	Tl 190.801†	-17.1	1.5	1.8031	µg/L	1.8031	ppb	09:22:51
3	U 367.007†	279.5	-23.3	-6.4905	µg/L	-6.4905	ppb	09:22:31
3	V 292.402†	268.9	-43.5	-0.3037	µg/L	-0.3037	ppb	09:22:31
3	Zn 213.857†	558.7	-11.6	-0.1429	µg/L	-0.1429	ppb	09:22:51

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1340119.8	103.59	%	1.920				1.85%
Sc RADIAL	23434.6	98.7	%	0.30				0.31%
Y 371.029	788575.8	103.25	%	1.992				1.93%
Ag 328.068†	-71.5	-0.4860	µg/L	0.30982	-0.4860	ppb	0.30982	63.76%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	3.0	6.3057	µg/L	17.13647	6.3057	ppb	17.13647	271.76%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.5	0.9330	µg/L	3.43534	0.9330	ppb	3.43534	368.19%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	31.9	0.4089	µg/L	0.43409	0.4089	ppb	0.43409	106.15%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.6	0.0780	µg/L	0.06524	0.0780	ppb	0.06524	83.69%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-393.2	-0.1661	µg/L	0.03587	-0.1661	ppb	0.03587	21.59%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.9	3.7344	µg/L	3.93162	3.7344	ppb	3.93162	105.28%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-1.0	-0.0130	µg/L	0.02498	-0.0130	ppb	0.02498	191.47%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	11.5	0.3309	µg/L	0.26507	0.3309	ppb	0.26507	80.12%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -1.7     -0.0382 µg/L       0.20747     -0.0382 ppb        0.20747 542.79%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                 5.8      0.0422 µg/L       0.99479      0.0422 ppb        0.99479 >999.9%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -3.8     -11.766 µg/L        6.9895     -11.766 ppb         6.9895  59.40%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          23.3      31.822 µg/L       20.9930      31.822 ppb        20.9930  65.97%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             1.7      10.715 µg/L        5.3978      10.715 ppb         5.3978  50.38%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                 9.3      0.0260 µg/L       0.03480      0.0260 ppb        0.03480 133.99%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 9.0      1.0022 µg/L       0.45420      1.0022 ppb        0.45420  45.32%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          4.3      6.0219 µg/L       5.12734      6.0219 ppb        5.12734  85.14%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 1.8      0.0520 µg/L       0.31914      0.0520 ppb        0.31914 613.37%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -10.4     -10.650 µg/L        8.2204     -10.650 ppb         8.2204  77.19%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -7.5     -1.5577 µg/L       3.78237     -1.5577 ppb        3.78237 242.82%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            3.6      11.372 µg/L       20.4039      11.372 ppb        20.4039 179.42%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -5.7     -3.5566 µg/L       1.88807     -3.5566 ppb        1.88807  53.09%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 3.0        3.87 µg/L         2.667        3.87 ppb          2.667  68.94%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      -1.5     -0.2654 µg/L       9.31827     -0.2654 ppb        9.31827 >999.9%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                32.8      0.9289 µg/L       0.40721      0.9289 ppb        0.40721  43.84%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 4.5      1.7809 µg/L       1.17398      1.7809 ppb        1.17398  65.92%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 3.7      0.0427 µg/L       0.05242      0.0427 ppb        0.05242 122.89%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                49.7      0.0865 µg/L       0.18450      0.0865 ppb        0.18450 213.21%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 2.3      2.8131 µg/L       2.64368      2.8131 ppb        2.64368  93.98%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 36.2      10.293 µg/L       15.6540      10.293 ppb        15.6540 152.09%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 18.8      0.1477 µg/L       0.44222      0.1477 ppb        0.44222 299.39%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                -4.2     -0.0505 µg/L       0.13707     -0.0505 ppb        0.13707 271.43%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 31 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 09:27:05**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21721.7	21721.7	91.5	%			09:27:36
1	Al 396.153Radial†	2266.4	2585.3	5422.7	µg/L	5422.7	ppb	09:27:56
1	Ca 317.933Radial†	8302.6	8992.7	5667.3	µg/L	5667.3	ppb	09:27:56
1	Fe 238.204 Radial†	1727.5	1855.3	5736.3	µg/L	5736.3	ppb	09:27:56
1	K 766.490 Radial†	4317.7	4000.1	5482.5	µg/L	5482.5	ppb	09:27:36
1	Mg 279.077 IEC†	827.4	901.3	5808.3	µg/L	5808.3	ppb	09:27:56
1	Na 589.592 Radial†	6789.2	7469.6	10386	µg/L	10386	ppb	09:27:36
1	Sr 421.552†	42913.2	46879.2	541.26	µg/L	541.26	ppb	09:27:36
1	Sc 361.383	1347794.4	1347794.4	104.18	%			09:28:58
1	Y 371.029	778185.9	778185.9	101.89	%			09:28:58
1	Ag 328.068†	79332.9	75473.9	505.58	µg/L	505.58	ppb	09:29:00
1	As 188.979†	278.6	271.0	516.46	µg/L	516.46	ppb	09:29:20
1	B 249.677†	44059.2	42013.7	474.13	µg/L	474.13	ppb	09:29:00
1	Ba 233.527†	37383.5	35970.9	497.45	µg/L	497.45	ppb	09:29:00
1	Be 313.107†	1212921.4	1172172.5	495.23	µg/L	495.23	ppb	09:28:58
1	Cd 226.502†	34800.5	33508.7	499.73	µg/L	499.73	ppb	09:29:00
1	Co 228.616†	18312.3	17678.8	504.63	µg/L	504.63	ppb	09:29:00
1	Cr 267.716†	28903.2	27629.8	497.15	µg/L	497.15	ppb	09:29:00
1	Cu 324.752†	81312.8	73872.3	500.12	µg/L	500.12	ppb	09:29:00
1	Mn 257.610†	182574.5	175055.2	503.34	µg/L	503.34	ppb	09:29:00
1	Mo 202.031†	4532.9	4362.6	487.46	µg/L	487.46	ppb	09:29:20
1	Ni 231.604†	18222.3	17550.0	503.46	µg/L	503.46	ppb	09:29:00
1	P 214.914†	2318.4	2290.1	2321.5	µg/L	2321.5	ppb	09:29:20
1	Pb 220.353†	2573.1	2355.6	491.86	µg/L	491.86	ppb	09:29:20
1	S 181.975 Axial†	350.4	308.2	965.95	µg/L	965.95	ppb	09:29:20
1	Sb 206.836†	784.4	748.4	465.88	µg/L	465.88	ppb	09:29:20
1	Se 196.026†	400.5	372.6	487	µg/L	487	ppb	09:29:20
1	SiO2†	32354.6	29118.6	5271.7	µg/L	5271.7	ppb	09:29:00
1	Si 251.611†	89418.3	85436.8	2454.7	µg/L	2454.7	ppb	09:29:00
1	Sn 189.927†	1223.5	1173.7	468.95	µg/L	468.95	ppb	09:29:20
1	Ti 334.940†	283511.3	270584.6	499.29	µg/L	499.29	ppb	09:29:00
1	Tl 190.801†	418.7	419.9	500.09	µg/L	500.09	ppb	09:29:20
1	U 367.007†	2210.3	1828.8	483.78	µg/L	483.78	ppb	09:29:00
1	V 292.402†	74123.4	70845.9	502.19	µg/L	502.19	ppb	09:29:00
1	Zn 213.857†	42835.3	40566.0	497.25	µg/L	497.25	ppb	09:29:00
2	Sc RADIAL	23754.3	23754.3	100	%			09:27:58
2	Al 396.153Radial†	2215.4	2322.3	4870.4	µg/L	4870.4	ppb	09:28:18
2	Ca 317.933Radial†	8223.2	8136.8	5127.9	µg/L	5127.9	ppb	09:28:18
2	Fe 238.204 Radial†	1708.8	1674.9	5177.3	µg/L	5177.3	ppb	09:28:18
2	K 766.490 Radial†	4384.1	3662.7	5021.2	µg/L	5021.2	ppb	09:27:58
2	Mg 279.077 IEC†	825.8	822.3	5299.2	µg/L	5299.2	ppb	09:28:18
2	Na 589.592 Radial†	6671.0	6716.4	9338.8	µg/L	9338.8	ppb	09:27:58
2	Sr 421.552†	42830.1	42782.4	493.96	µg/L	493.96	ppb	09:27:58
2	Sc 361.383	1280446.1	1280446.1	98.975	%			09:29:22
2	Y 371.029	739329.5	739329.5	96.802	%			09:29:22
2	Ag 328.068†	75561.8	75669.0	506.89	µg/L	506.89	ppb	09:29:24
2	As 188.979†	276.5	283.0	538.96	µg/L	538.96	ppb	09:29:44
2	B 249.677†	41678.6	41832.9	474.28	µg/L	474.28	ppb	09:29:24
2	Ba 233.527†	35427.4	35881.9	496.23	µg/L	496.23	ppb	09:29:24
2	Be 313.107†	1148007.9	1167823.2	493.39	µg/L	493.39	ppb	09:29:22
2	Cd 226.502†	32706.3	33149.7	494.45	µg/L	494.45	ppb	09:29:24
2	Co 228.616†	17242.8	17522.8	500.20	µg/L	500.20	ppb	09:29:24
2	Cr 267.716†	27307.9	27477.2	494.37	µg/L	494.37	ppb	09:29:24
2	Cu 324.752†	77369.8	73993.6	500.85	µg/L	500.85	ppb	09:29:24
2	Mn 257.610†	172657.4	174253.0	501.03	µg/L	501.03	ppb	09:29:24
2	Mo 202.031†	4515.2	4573.6	510.97	µg/L	510.97	ppb	09:29:44
2	Ni 231.604†	17212.0	17449.2	500.57	µg/L	500.57	ppb	09:29:24
2	P 214.914†	2309.0	2397.6	2431.7	µg/L	2431.7	ppb	09:29:44
2	Pb 220.353†	2568.0	2480.3	517.87	µg/L	517.87	ppb	09:29:44

2	S 181.975 Axial†	353.8	329.4	1032.7 µg/L	1032.7 ppb	09:29:44
2	Sb 206.836†	781.1	784.7	488.72 µg/L	488.72 ppb	09:29:44
2	Se 196.026†	404.3	396.7	518 µg/L	518 ppb	09:29:44
2	SiO2†	30694.9	29075.2	5263.8 µg/L	5263.8 ppb	09:29:24
2	Si 251.611†	84753.2	85237.9	2448.6 µg/L	2448.6 ppb	09:29:24
2	Sn 189.927†	1223.8	1235.8	493.66 µg/L	493.66 ppb	09:29:44
2	Ti 334.940†	269139.4	270377.4	498.88 µg/L	498.88 ppb	09:29:24
2	Tl 190.801†	415.7	438.0	522.02 µg/L	522.02 ppb	09:29:44
2	U 367.007†	2157.7	1887.3	503.35 µg/L	503.35 ppb	09:29:24
2	V 292.402†	70118.5	70541.7	500.27 µg/L	500.27 ppb	09:29:24
2	Zn 213.857†	40453.7	40322.3	494.33 µg/L	494.33 ppb	09:29:24
3	Sc RADIAL	24026.2	24026.2	101 %		09:28:20
3	Al 396.153Radial†	2225.0	2306.7	4837.8 µg/L	4837.8 ppb	09:28:40
3	Ca 317.933Radial†	8259.6	8079.7	5091.9 µg/L	5091.9 ppb	09:28:40
3	Fe 238.204 Radial†	1715.2	1662.0	5137.4 µg/L	5137.4 ppb	09:28:40
3	K 766.490 Radial†	4423.9	3652.4	5006.9 µg/L	5006.9 ppb	09:28:20
3	Mg 279.077 IEC†	825.0	812.2	5234.1 µg/L	5234.1 ppb	09:28:40
3	Na 589.592 Radial†	6852.2	6820.0	9482.9 µg/L	9482.9 ppb	09:28:20
3	Sr 421.552†	43339.3	42801.2	494.18 µg/L	494.18 ppb	09:28:20
3	Sc 361.383	1361567.1	1361567.1	105.25 %		09:29:46
3	Y 371.029	785083.4	785083.4	102.79 %		09:29:46
3	Ag 328.068†	78183.8	73611.7	493.15 µg/L	493.15 ppb	09:29:49
3	As 188.979†	290.4	279.5	532.37 µg/L	532.37 ppb	09:30:09
3	B 249.677†	43308.6	40872.7	463.07 µg/L	463.07 ppb	09:29:49
3	Ba 233.527†	37014.8	35257.6	487.59 µg/L	487.59 ppb	09:29:49
3	Be 313.107†	1227031.1	1173802.3	495.92 µg/L	495.92 ppb	09:29:46
3	Cd 226.502†	34462.3	32849.5	489.96 µg/L	489.96 ppb	09:29:49
3	Co 228.616†	18019.2	17222.5	491.64 µg/L	491.64 ppb	09:29:49
3	Cr 267.716†	28529.0	26993.7	485.69 µg/L	485.69 ppb	09:29:49
3	Cu 324.752†	80191.3	72017.1	487.48 µg/L	487.48 ppb	09:29:49
3	Mn 257.610†	179879.0	170721.4	490.88 µg/L	490.88 ppb	09:29:49
3	Mo 202.031†	4719.2	4495.7	502.27 µg/L	502.27 ppb	09:30:09
3	Ni 231.604†	18009.2	17170.6	492.58 µg/L	492.58 ppb	09:29:49
3	P 214.914†	2413.8	2358.2	2391.7 µg/L	2391.7 ppb	09:30:09
3	Pb 220.353†	2671.7	2424.3	506.21 µg/L	506.21 ppb	09:30:09
3	S 181.975 Axial†	360.1	314.0	984.48 µg/L	984.48 ppb	09:30:09
3	Sb 206.836†	814.7	769.6	479.30 µg/L	479.30 ppb	09:30:09
3	Se 196.026†	419.4	386.7	505 µg/L	505 ppb	09:30:09
3	SiO2†	31887.7	28360.8	5134.6 µg/L	5134.6 ppb	09:29:49
3	Si 251.611†	88156.9	83370.1	2394.9 µg/L	2394.9 ppb	09:29:49
3	Sn 189.927†	1283.7	1219.0	486.98 µg/L	486.98 ppb	09:30:09
3	Ti 334.940†	279372.8	263899.6	486.94 µg/L	486.94 ppb	09:29:49
3	Tl 190.801†	439.7	435.8	519.43 µg/L	519.43 ppb	09:30:09
3	U 367.007†	2146.7	1746.9	463.92 µg/L	463.92 ppb	09:29:49
3	V 292.402†	73197.0	69246.0	491.09 µg/L	491.09 ppb	09:29:49
3	Zn 213.857†	42275.3	39618.0	485.69 µg/L	485.69 ppb	09:29:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1329935.8	102.80	%	3.355				3.26%
Sc RADIAL	23167.4	97.6	%	5.30				5.44%
Y 371.029	767532.9	100.49	%	3.230				3.21%
Ag 328.068†	74918.2	501.87	µg/L	7.584	501.87	ppb	7.584	1.51%
QC value within limits for Ag 328.068 Recovery = 100.37%								
Al 396.153Radial†	2404.8	5043.6	µg/L	328.72	5043.6	ppb	328.72	6.52%
QC value within limits for Al 396.153Radial Recovery = 100.87%								
As 188.979†	277.9	529.26	µg/L	11.565	529.26	ppb	11.565	2.19%
QC value within limits for As 188.979 Recovery = 105.85%								
B 249.677†	41573.1	470.49	µg/L	6.433	470.49	ppb	6.433	1.37%
QC value within limits for B 249.677 Recovery = 94.10%								
Ba 233.527†	35703.5	493.76	µg/L	5.375	493.76	ppb	5.375	1.09%
QC value within limits for Ba 233.527 Recovery = 98.75%								
Be 313.107†	1171266.0	494.84	µg/L	1.306	494.84	ppb	1.306	0.26%
QC value within limits for Be 313.107 Recovery = 98.97%								
Ca 317.933Radial†	8403.1	5295.7	µg/L	322.31	5295.7	ppb	322.31	6.09%
QC value within limits for Ca 317.933Radial Recovery = 105.91%								
Cd 226.502†	33169.3	494.71	µg/L	4.890	494.71	ppb	4.890	0.99%
QC value within limits for Cd 226.502 Recovery = 98.94%								
Co 228.616†	17474.7	498.82	µg/L	6.604	498.82	ppb	6.604	1.32%

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   QC value within limits for Co 228.616  Recovery = 99.76%
Cr 267.716†            27366.9      492.40 µg/L         5.974      492.40 ppb          5.974   1.21%
   QC value within limits for Cr 267.716  Recovery = 98.48%
Cu 324.752†            73294.4      496.15 µg/L         7.519      496.15 ppb          7.519   1.52%
   QC value within limits for Cu 324.752  Recovery = 99.23%
Fe 238.204 Radial†      1730.7      5350.4 µg/L        334.86      5350.4 ppb         334.86   6.26%
   QC value within limits for Fe 238.204 Radial  Recovery = 107.01%
K 766.490 Radial†       3771.7      5170.2 µg/L        270.57      5170.2 ppb         270.57   5.23%
   QC value within limits for K 766.490 Radial  Recovery = 103.40%
Mg 279.077 IEC†          845.3      5447.2 µg/L        314.42      5447.2 ppb         314.42   5.77%
   QC value within limits for Mg 279.077 IEC  Recovery = 108.94%
Mn 257.610†           173343.2      498.42 µg/L         6.630      498.42 ppb          6.630   1.33%
   QC value within limits for Mn 257.610  Recovery = 99.68%
Mo 202.031†             4477.3      500.23 µg/L        11.888      500.23 ppb         11.888   2.38%
   QC value within limits for Mo 202.031  Recovery = 100.05%
Na 589.592 Radial†      7002.0      9735.9 µg/L        567.61      9735.9 ppb         567.61   5.83%
   QC value within limits for Na 589.592 Radial  Recovery = 97.36%
Ni 231.604†            17390.0      498.87 µg/L         5.637      498.87 ppb          5.637   1.13%
   QC value within limits for Ni 231.604  Recovery = 99.77%
P 214.914†              2348.6      2381.7 µg/L         55.78      2381.7 ppb          55.78   2.34%
   QC value within limits for P 214.914  Recovery = 95.27%
Pb 220.353†             2420.1      505.32 µg/L        13.032      505.32 ppb         13.032   2.58%
   QC value within limits for Pb 220.353  Recovery = 101.06%
S 181.975 Axial†         317.2      994.38 µg/L        34.469      994.38 ppb         34.469   3.47%
   QC value within limits for S 181.975 Axial  Recovery = 99.44%
Sb 206.836†              767.5      477.97 µg/L        11.480      477.97 ppb         11.480   2.40%
   QC value within limits for Sb 206.836  Recovery = 95.59%
Se 196.026†              385.3         503 µg/L          15.6         503 ppb           15.6   3.11%
   QC value within limits for Se 196.026  Recovery = 100.65%
SiO2†                  28851.5      5223.4 µg/L         77.01      5223.4 ppb          77.01   1.47%
   QC value within limits for SiO2  Recovery = 97.68%
Si 251.611†            84681.6      2432.7 µg/L         32.90      2432.7 ppb          32.90   1.35%
   QC value within limits for Si 251.611  Recovery = 97.31%
Sn 189.927†             1209.5      483.20 µg/L        12.780      483.20 ppb         12.780   2.64%
   QC value within limits for Sn 189.927  Recovery = 96.64%
Sr 421.552†            44154.3      509.80 µg/L        27.246      509.80 ppb         27.246   5.34%
   QC value within limits for Sr 421.552  Recovery = 101.96%
Ti 334.940†           268287.2      495.04 µg/L         7.013      495.04 ppb          7.013   1.42%
   QC value within limits for Ti 334.940  Recovery = 99.01%
Tl 190.801†              431.2      513.85 µg/L        11.985      513.85 ppb         11.985   2.33%
   QC value within limits for Tl 190.801  Recovery = 102.77%
U 367.007†              1821.0      483.68 µg/L        19.717      483.68 ppb         19.717   4.08%
   QC value within limits for U 367.007  Recovery = 96.74%
V 292.402†             70211.2      497.85 µg/L         5.935      497.85 ppb          5.935   1.19%
   QC value within limits for V 292.402  Recovery = 99.57%
Zn 213.857†            40168.8      492.42 µg/L         6.012      492.42 ppb          6.012   1.22%
   QC value within limits for Zn 213.857  Recovery = 98.48%
All analyte(s) passed QC.
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Sequence No.: 32 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 09:30:16**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23578.4	23578.4	99.3	%			09:31:04
1	Al 396.153Radial†	-105.3	1.9	4.0641	µg/L	4.0641	ppb	09:31:04
1	Ca 317.933Radial†	89.6	7.8	4.8925	µg/L	4.8925	ppb	09:31:24
1	Fe 238.204 Radial†	31.8	-1.0	-2.9820	µg/L	-2.9820	ppb	09:31:24
1	K 766.490 Radial†	745.1	30.9	42.307	µg/L	42.307	ppb	09:31:04
1	Mg 279.077 IEC†	2.0	-1.1	-7.2863	µg/L	-7.2863	ppb	09:31:24
1	Na 589.592 Radial†	-64.8	-16.6	-23.071	µg/L	-23.071	ppb	09:31:04
1	Sr 421.552†	21.9	-4.8	-0.0556	µg/L	-0.0556	ppb	09:31:04
1	Sc 361.383	1328150.1	1328150.1	102.66	%			09:33:01
1	Y 371.029	781987.6	781987.6	102.39	%			09:33:01
1	Ag 328.068†	889.3	191.1	1.2640	µg/L	1.2640	ppb	09:33:03
1	As 188.979†	-7.1	-3.3	-6.1711	µg/L	-6.1711	ppb	09:33:23
1	B 249.677†	415.7	127.7	1.5023	µg/L	1.5023	ppb	09:33:03
1	Ba 233.527†	-91.5	-1.4	-0.0185	µg/L	-0.0185	ppb	09:33:23
1	Be 313.107†	-8815.2	-658.5	-0.2782	µg/L	-0.2782	ppb	09:33:03
1	Cd 226.502†	-139.3	-30.9	-0.4615	µg/L	-0.4615	ppb	09:33:23
1	Co 228.616†	-102.7	1.4	0.0403	µg/L	0.0403	ppb	09:33:23
1	Cr 267.716†	116.4	-0.1	-0.0124	µg/L	-0.0124	ppb	09:33:23
1	Cu 324.752†	4368.2	77.6	0.5314	µg/L	0.5314	ppb	09:33:03
1	Mn 257.610†	218.3	20.5	0.0591	µg/L	0.0591	ppb	09:33:23
1	Mo 202.031†	-7.0	4.8	0.5388	µg/L	0.5388	ppb	09:33:23
1	Ni 231.604†	-64.7	-4.0	-0.1145	µg/L	-0.1145	ppb	09:33:23
1	P 214.914†	-73.6	-7.0	-7.1902	µg/L	-7.1902	ppb	09:33:23
1	Pb 220.353†	97.1	-19.7	-4.1101	µg/L	-4.1101	ppb	09:33:23
1	S 181.975 Axial†	26.4	-2.3	-7.3956	µg/L	-7.3956	ppb	09:33:23
1	Sb 206.836†	0.2	-4.4	-2.7285	µg/L	-2.7285	ppb	09:33:23
1	Se 196.026†	17.1	4.8	6.30	µg/L	6.30	ppb	09:33:23
1	SiO2†	2058.6	67.6	12.218	µg/L	12.218	ppb	09:33:03
1	Si 251.611†	453.1	48.4	1.3865	µg/L	1.3865	ppb	09:33:23
1	Sn 189.927†	3.9	3.1	1.2350	µg/L	1.2350	ppb	09:33:23
1	Ti 334.940†	1589.3	-0.8	-0.0095	µg/L	-0.0095	ppb	09:33:03
1	Tl 190.801†	-11.0	7.3	8.7701	µg/L	8.7701	ppb	09:33:23
1	U 367.007†	359.9	57.8	16.366	µg/L	16.366	ppb	09:33:03
1	V 292.402†	384.6	71.8	0.5169	µg/L	0.5169	ppb	09:33:03
1	Zn 213.857†	576.3	11.1	0.1377	µg/L	0.1377	ppb	09:33:23
2	Sc RADIAL	23224.7	23224.7	97.8	%			09:31:44
2	Al 396.153Radial†	-102.7	3.0	6.2166	µg/L	6.2166	ppb	09:31:44
2	Ca 317.933Radial†	82.4	1.8	1.1250	µg/L	1.1250	ppb	09:32:04
2	Fe 238.204 Radial†	27.2	-5.2	-16.274	µg/L	-16.274	ppb	09:32:04
2	K 766.490 Radial†	725.4	22.3	30.479	µg/L	30.479	ppb	09:31:44
2	Mg 279.077 IEC†	6.2	3.2	20.417	µg/L	20.417	ppb	09:32:04
2	Na 589.592 Radial†	-47.0	0.6	0.8166	µg/L	0.8166	ppb	09:31:44
2	Sr 421.552†	44.0	18.1	0.2094	µg/L	0.2094	ppb	09:31:44
2	Sc 361.383	1320490.6	1320490.6	102.07	%			09:33:25
2	Y 371.029	776931.3	776931.3	101.73	%			09:33:25
2	Ag 328.068†	536.7	-149.4	-1.0031	µg/L	-1.0031	ppb	09:33:27
2	As 188.979†	-9.2	-5.4	-10.149	µg/L	-10.149	ppb	09:33:47
2	B 249.677†	335.5	51.4	0.6578	µg/L	0.6578	ppb	09:33:27
2	Ba 233.527†	-70.1	19.0	0.2650	µg/L	0.2650	ppb	09:33:47
2	Be 313.107†	-8612.0	-509.3	-0.2152	µg/L	-0.2152	ppb	09:33:27
2	Cd 226.502†	-104.9	2.0	0.0313	µg/L	0.0313	ppb	09:33:47
2	Co 228.616†	-86.2	17.0	0.4868	µg/L	0.4868	ppb	09:33:47
2	Cr 267.716†	133.4	17.3	0.3045	µg/L	0.3045	ppb	09:33:47
2	Cu 324.752†	4494.3	225.8	1.5273	µg/L	1.5273	ppb	09:33:27
2	Mn 257.610†	192.9	-3.2	-0.0103	µg/L	-0.0103	ppb	09:33:47
2	Mo 202.031†	1.1	12.8	1.4310	µg/L	1.4310	ppb	09:33:47
2	Ni 231.604†	-78.5	-17.9	-0.5142	µg/L	-0.5142	ppb	09:33:47
2	P 214.914†	-71.8	-5.7	-5.7856	µg/L	-5.7856	ppb	09:33:47
2	Pb 220.353†	115.0	-1.5	-0.3224	µg/L	-0.3224	ppb	09:33:47

2	S 181.975 Axial†	24.0	-4.6	-14.441	µg/L	-14.441	ppb	09:33:47
2	Sb 206.836†	0.3	-4.2	-2.6367	µg/L	-2.6367	ppb	09:33:47
2	Se 196.026†	19.4	7.2	9.37	µg/L	9.37	ppb	09:33:47
2	SiO2†	2039.4	60.4	10.926	µg/L	10.926	ppb	09:33:27
2	Si 251.611†	466.7	64.3	1.8300	µg/L	1.8300	ppb	09:33:47
2	Sn 189.927†	3.8	2.9	1.1736	µg/L	1.1736	ppb	09:33:47
2	Ti 334.940†	1535.1	-44.9	-0.0882	µg/L	-0.0882	ppb	09:33:27
2	Tl 190.801†	-17.2	1.1	1.3241	µg/L	1.3241	ppb	09:33:47
2	U 367.007†	334.4	34.9	9.9388	µg/L	9.9388	ppb	09:33:27
2	V 292.402†	450.1	138.2	0.9856	µg/L	0.9856	ppb	09:33:27
2	Zn 213.857†	561.3	-0.3	-0.0006	µg/L	-0.0006	ppb	09:33:47
3	Sc RADIAL	23133.5	23133.5	97.4	%			09:32:24
3	Al 396.153Radial†	-116.5	-11.6	-24.366	µg/L	-24.366	ppb	09:32:24
3	Ca 317.933Radial†	76.4	-4.0	-2.5049	µg/L	-2.5049	ppb	09:32:44
3	Fe 238.204 Radial†	31.0	-1.2	-3.8091	µg/L	-3.8091	ppb	09:32:44
3	K 766.490 Radial†	755.1	55.6	76.099	µg/L	76.099	ppb	09:32:24
3	Mg 279.077 IEC†	-1.1	-4.2	-27.102	µg/L	-27.102	ppb	09:32:44
3	Na 589.592 Radial†	-68.0	-21.1	-29.387	µg/L	-29.387	ppb	09:32:24
3	Sr 421.552†	30.5	4.5	0.0518	µg/L	0.0518	ppb	09:32:24
3	Sc 361.383	1312950.3	1312950.3	101.49	%			09:33:49
3	Y 371.029	772076.9	772076.9	101.09	%			09:33:49
3	Ag 328.068†	709.9	24.3	0.1305	µg/L	0.1305	ppb	09:33:51
3	As 188.979†	-4.9	-1.2	-2.1604	µg/L	-2.1604	ppb	09:34:11
3	B 249.677†	310.4	28.6	0.3221	µg/L	0.3221	ppb	09:33:51
3	Ba 233.527†	-104.7	-15.5	-0.2128	µg/L	-0.2128	ppb	09:34:11
3	Be 313.107†	-8706.6	-650.9	-0.2750	µg/L	-0.2750	ppb	09:33:51
3	Cd 226.502†	-126.4	-19.8	-0.2952	µg/L	-0.2952	ppb	09:34:11
3	Co 228.616†	-97.3	5.6	0.1608	µg/L	0.1608	ppb	09:34:11
3	Cr 267.716†	125.1	9.8	0.1532	µg/L	0.1532	ppb	09:34:11
3	Cu 324.752†	4263.9	24.1	0.1797	µg/L	0.1797	ppb	09:33:51
3	Mn 257.610†	203.7	8.5	0.0253	µg/L	0.0253	ppb	09:34:11
3	Mo 202.031†	-6.1	5.7	0.6338	µg/L	0.6338	ppb	09:34:11
3	Ni 231.604†	-80.4	-20.2	-0.5789	µg/L	-0.5789	ppb	09:34:11
3	P 214.914†	-74.1	-8.3	-8.4854	µg/L	-8.4854	ppb	09:34:11
3	Pb 220.353†	98.4	-17.3	-3.6276	µg/L	-3.6276	ppb	09:34:11
3	S 181.975 Axial†	29.2	0.7	2.1529	µg/L	2.1529	ppb	09:34:11
3	Sb 206.836†	1.5	-3.0	-1.8906	µg/L	-1.8906	ppb	09:34:11
3	Se 196.026†	11.5	-0.5	-0.622	µg/L	-0.622	ppb	09:34:11
3	SiO2†	1942.6	-23.5	-4.2390	µg/L	-4.2390	ppb	09:33:51
3	Si 251.611†	454.4	54.8	1.5699	µg/L	1.5699	ppb	09:34:11
3	Sn 189.927†	4.4	3.6	1.4198	µg/L	1.4198	ppb	09:34:11
3	Ti 334.940†	1515.4	-55.7	-0.1219	µg/L	-0.1219	ppb	09:33:51
3	Tl 190.801†	-13.1	5.1	6.1281	µg/L	6.1281	ppb	09:34:11
3	U 367.007†	430.6	131.5	37.223	µg/L	37.223	ppb	09:33:51
3	V 292.402†	351.0	43.0	0.3296	µg/L	0.3296	ppb	09:33:51
3	Zn 213.857†	577.0	18.3	0.2302	µg/L	0.2302	ppb	09:34:11

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1320530.4	102.07	%	0.587				0.58%
Sc RADIAL	23312.2	98.2	%	0.99				1.01%
Y 371.029	776998.6	101.73	%	0.649				0.64%
Ag 328.068†	22.0	0.1305	µg/L	1.13356	0.1305	ppb	1.13356	868.76%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-2.2	-4.6951	µg/L	17.06938	-4.6951	ppb	17.06938	363.56%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.3	-6.1601	µg/L	3.99419	-6.1601	ppb	3.99419	64.84%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	69.2	0.8274	µg/L	0.60810	0.8274	ppb	0.60810	73.50%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	0.7	0.0112	µg/L	0.24027	0.0112	ppb	0.24027	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-606.2	-0.2561	µg/L	0.03552	-0.2561	ppb	0.03552	13.87%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	1.9	1.1709	µg/L	3.69892	1.1709	ppb	3.69892	315.92%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-16.2	-0.2418	µg/L	0.25068	-0.2418	ppb	0.25068	103.67%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	8.0	0.2293	µg/L	0.23101	0.2293	ppb	0.23101	100.74%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 9.0      0.1484 µg/L       0.15846      0.1484 ppb        0.15846 106.75%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               109.2      0.7461 µg/L       0.69897      0.7461 ppb        0.69897  93.68%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -2.5     -7.6882 µg/L       7.44663     -7.6882 ppb        7.44663  96.86%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          36.3      49.628 µg/L       23.6747      49.628 ppb        23.6747  47.70%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -0.7     -4.6573 µg/L      23.86840     -4.6573 ppb       23.86840 512.50%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                 8.6      0.0247 µg/L       0.03469      0.0247 ppb        0.03469 140.54%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 7.8      0.8679 µg/L       0.48999      0.8679 ppb        0.48999  56.46%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -12.4     -17.214 µg/L       15.9307     -17.214 ppb        15.9307  92.55%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -14.0     -0.4025 µg/L       0.25156     -0.4025 ppb        0.25156  62.49%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -7.0     -7.1538 µg/L       1.35026     -7.1538 ppb        1.35026  18.87%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -12.8     -2.6867 µg/L       2.06171     -2.6867 ppb        2.06171  76.74%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -2.1     -6.5611 µg/L       8.32816     -6.5611 ppb        8.32816 126.93%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -3.9     -2.4186 µg/L       0.45958     -2.4186 ppb        0.45958  19.00%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 3.9        5.01 µg/L         5.117        5.01 ppb          5.117 102.05%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      34.9      6.3016 µg/L       9.15127      6.3016 ppb        9.15127 145.22%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                55.8      1.5955 µg/L       0.22283      1.5955 ppb        0.22283  13.97%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 3.2      1.2761 µg/L       0.12813      1.2761 ppb        0.12813  10.04%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 5.9      0.0685 µg/L       0.13326      0.0685 ppb        0.13326 194.44%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -33.8     -0.0732 µg/L       0.05768     -0.0732 ppb        0.05768  78.78%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 4.5      5.4074 µg/L       3.77493      5.4074 ppb        3.77493  69.81%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 74.7      21.176 µg/L       14.2637      21.176 ppb        14.2637  67.36%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 84.3      0.6107 µg/L       0.33794      0.6107 ppb        0.33794  55.34%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                 9.7      0.1224 µg/L       0.11614      0.1224 ppb        0.11614  94.86%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 3 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 09:42:39**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23393.8	23393.8	98.5	%			09:43:11
1	Al 396.153Radial†	2139.9	2279.8	4781.3	µg/L	4781.3	ppb	09:43:31
1	Ca 317.933Radial†	7953.8	7990.0	5035.3	µg/L	5035.3	ppb	09:43:31
1	Fe 238.204 Radial†	1658.0	1649.7	5099.2	µg/L	5099.2	ppb	09:43:31
1	K 766.490 Radial†	4286.0	3630.6	4977.1	µg/L	4977.1	ppb	09:43:11
1	Mg 279.077 IEC†	796.8	805.6	5191.4	µg/L	5191.4	ppb	09:43:31
1	Na 589.592 Radial†	6866.8	7017.9	9758.0	µg/L	9758.0	ppb	09:43:11
1	Sr 421.552†	42344.2	42949.1	495.89	µg/L	495.89	ppb	09:43:11
1	Sc 361.383	1316455.0	1316455.0	101.76	%			09:44:32
1	Y 371.029	759209.6	759209.6	99.405	%			09:44:32
1	Ag 328.068†	77551.2	75535.7	505.98	µg/L	505.98	ppb	09:44:35
1	As 188.979†	285.8	284.5	541.70	µg/L	541.70	ppb	09:44:55
1	B 249.677†	42540.8	41528.3	470.99	µg/L	470.99	ppb	09:44:35
1	Ba 233.527†	36300.8	35761.2	494.56	µg/L	494.56	ppb	09:44:35
1	Be 313.107†	1176809.4	1164400.5	491.94	µg/L	491.94	ppb	09:44:32
1	Cd 226.502†	33495.7	33021.6	492.54	µg/L	492.54	ppb	09:44:35
1	Co 228.616†	17664.8	17461.0	498.43	µg/L	498.43	ppb	09:44:35
1	Cr 267.716†	27865.0	27270.0	490.63	µg/L	490.63	ppb	09:44:35
1	Cu 324.752†	79701.6	74147.0	501.88	µg/L	501.88	ppb	09:44:35
1	Mn 257.610†	177401.3	174143.4	500.72	µg/L	500.72	ppb	09:44:35
1	Mo 202.031†	4526.8	4460.2	498.31	µg/L	498.31	ppb	09:44:55
1	Ni 231.604†	17569.2	17324.6	497.00	µg/L	497.00	ppb	09:44:35
1	P 214.914†	2200.3	2227.0	2257.8	µg/L	2257.8	ppb	09:44:55
1	Pb 220.353†	2544.5	2386.3	498.25	µg/L	498.25	ppb	09:44:55
1	S 181.975 Axial†	341.1	307.1	962.61	µg/L	962.61	ppb	09:44:55
1	Sb 206.836†	758.1	740.4	461.08	µg/L	461.08	ppb	09:44:55
1	Se 196.026†	408.9	390.0	509	µg/L	509	ppb	09:44:55
1	SiO2†	31419.9	28939.4	5239.2	µg/L	5239.2	ppb	09:44:35
1	Si 251.611†	86685.8	84794.8	2436.0	µg/L	2436.0	ppb	09:44:35
1	Sn 189.927†	1165.5	1144.6	457.27	µg/L	457.27	ppb	09:44:55
1	Ti 334.940†	276134.9	269814.0	497.83	µg/L	497.83	ppb	09:44:35
1	Tl 190.801†	439.9	450.3	536.84	µg/L	536.84	ppb	09:44:55
1	U 367.007†	2251.1	1919.5	512.88	µg/L	512.88	ppb	09:44:35
1	V 292.402†	71793.9	70250.4	498.07	µg/L	498.07	ppb	09:44:35
1	Zn 213.857†	41452.6	40186.0	492.68	µg/L	492.68	ppb	09:44:35
2	Sc RADIAL	22987.8	22987.8	96.8	%			09:43:33
2	Al 396.153Radial†	2147.9	2326.5	4879.4	µg/L	4879.4	ppb	09:43:53
2	Ca 317.933Radial†	7979.9	8159.6	5142.2	µg/L	5142.2	ppb	09:43:53
2	Fe 238.204 Radial†	1654.9	1676.2	5181.6	µg/L	5181.6	ppb	09:43:53
2	K 766.490 Radial†	4209.9	3628.8	4974.6	µg/L	4974.6	ppb	09:43:33
2	Mg 279.077 IEC†	811.9	835.5	5384.2	µg/L	5384.2	ppb	09:43:53
2	Na 589.592 Radial†	6580.8	6845.6	9518.5	µg/L	9518.5	ppb	09:43:33
2	Sr 421.552†	41802.0	43148.1	498.19	µg/L	498.19	ppb	09:43:33
2	Sc 361.383	1352766.0	1352766.0	104.57	%			09:44:57
2	Y 371.029	779732.5	779732.5	102.09	%			09:44:57
2	Ag 328.068†	78648.4	74539.4	499.29	µg/L	499.29	ppb	09:44:59
2	As 188.979†	288.3	279.3	531.92	µg/L	531.92	ppb	09:45:19
2	B 249.677†	43390.8	41219.1	467.01	µg/L	467.01	ppb	09:44:59
2	Ba 233.527†	36865.6	35343.8	488.78	µg/L	488.78	ppb	09:44:59
2	Be 313.107†	1212614.7	1167600.5	493.29	µg/L	493.29	ppb	09:44:57
2	Cd 226.502†	33947.9	32570.5	485.79	µg/L	485.79	ppb	09:44:59
2	Co 228.616†	17952.2	17269.8	492.97	µg/L	492.97	ppb	09:44:59
2	Cr 267.716†	28273.8	26926.0	484.44	µg/L	484.44	ppb	09:44:59
2	Cu 324.752†	80867.2	73159.3	495.23	µg/L	495.23	ppb	09:44:59
2	Mn 257.610†	179524.8	171494.6	493.10	µg/L	493.10	ppb	09:44:59
2	Mo 202.031†	4563.6	4376.0	488.92	µg/L	488.92	ppb	09:45:19
2	Ni 231.604†	17810.5	17091.9	490.32	µg/L	490.32	ppb	09:44:59
2	P 214.914†	2215.8	2183.7	2213.7	µg/L	2213.7	ppb	09:45:19
2	Pb 220.353†	2574.7	2348.0	490.25	µg/L	490.25	ppb	09:45:19

2	S 181.975 Axial†	341.5	298.5	935.53 µg/L	935.53 ppb	09:45:19
2	Sb 206.836†	763.4	725.5	451.75 µg/L	451.75 ppb	09:45:19
2	Se 196.026†	406.6	377.0	492 µg/L	492 ppb	09:45:19
2	SiO2†	31911.5	28580.7	5174.3 µg/L	5174.3 ppb	09:44:59
2	Si 251.611†	88021.0	83785.1	2407.1 µg/L	2407.1 ppb	09:44:59
2	Sn 189.927†	1172.3	1120.4	447.63 µg/L	447.63 ppb	09:45:19
2	Ti 334.940†	280024.9	266250.3	491.26 µg/L	491.26 ppb	09:44:59
2	Tl 190.801†	435.9	434.8	518.27 µg/L	518.27 ppb	09:45:19
2	U 367.007†	2318.7	1924.7	513.94 µg/L	513.94 ppb	09:44:59
2	V 292.402†	72651.3	69176.6	490.47 µg/L	490.47 ppb	09:44:59
2	Zn 213.857†	42072.1	39685.0	486.52 µg/L	486.52 ppb	09:44:59
3	Sc RADIAL	23343.2	23343.2	98.3 %		09:43:55
3	Al 396.153Radial†	2155.3	2300.2	4824.1 µg/L	4824.1 ppb	09:44:15
3	Ca 317.933Radial†	8037.0	8092.2	5099.7 µg/L	5099.7 ppb	09:44:15
3	Fe 238.204 Radial†	1671.9	1667.5	5154.5 µg/L	5154.5 ppb	09:44:15
3	K 766.490 Radial†	4232.5	3585.6	4915.7 µg/L	4915.7 ppb	09:43:55
3	Mg 279.077 IEC†	797.6	808.2	5208.2 µg/L	5208.2 ppb	09:44:15
3	Na 589.592 Radial†	6501.9	6661.8	9262.9 µg/L	9262.9 ppb	09:43:55
3	Sr 421.552†	42234.6	42930.8	495.68 µg/L	495.68 ppb	09:43:55
3	Sc 361.383	1330029.5	1330029.5	102.81 %		09:45:21
3	Y 371.029	766779.5	766779.5	100.40 %		09:45:21
3	Ag 328.068†	77804.4	75004.2	502.42 µg/L	502.42 ppb	09:45:23
3	As 188.979†	287.4	283.2	539.22 µg/L	539.22 ppb	09:45:43
3	B 249.677†	43038.7	41586.0	471.48 µg/L	471.48 ppb	09:45:23
3	Ba 233.527†	36424.5	35517.4	491.18 µg/L	491.18 ppb	09:45:23
3	Be 313.107†	1193531.5	1168862.7	493.83 µg/L	493.83 ppb	09:45:21
3	Cd 226.502†	33596.7	32783.9	488.98 µg/L	488.98 ppb	09:45:23
3	Co 228.616†	17746.9	17363.6	495.65 µg/L	495.65 ppb	09:45:23
3	Cr 267.716†	28027.5	27148.6	488.45 µg/L	488.45 ppb	09:45:23
3	Cu 324.752†	79783.6	73427.3	497.03 µg/L	497.03 ppb	09:45:23
3	Mn 257.610†	177862.2	172812.4	496.89 µg/L	496.89 ppb	09:45:23
3	Mo 202.031†	4552.5	4439.8	496.03 µg/L	496.03 ppb	09:45:43
3	Ni 231.604†	17558.9	17138.3	491.65 µg/L	491.65 ppb	09:45:23
3	P 214.914†	2202.8	2207.4	2237.7 µg/L	2237.7 ppb	09:45:43
3	Pb 220.353†	2545.0	2361.2	493.02 µg/L	493.02 ppb	09:45:43
3	S 181.975 Axial†	340.4	303.0	949.79 µg/L	949.79 ppb	09:45:43
3	Sb 206.836†	760.9	735.6	458.09 µg/L	458.09 ppb	09:45:43
3	Se 196.026†	399.8	377.0	492 µg/L	492 ppb	09:45:43
3	SiO2†	31357.1	28563.2	5171.2 µg/L	5171.2 ppb	09:45:23
3	Si 251.611†	87166.3	84392.7	2424.5 µg/L	2424.5 ppb	09:45:23
3	Sn 189.927†	1185.5	1152.3	460.37 µg/L	460.37 ppb	09:45:43
3	Ti 334.940†	277060.7	267945.0	494.38 µg/L	494.38 ppb	09:45:23
3	Tl 190.801†	428.5	434.8	518.18 µg/L	518.18 ppb	09:45:43
3	U 367.007†	2269.3	1914.6	511.23 µg/L	511.23 ppb	09:45:23
3	V 292.402†	71963.1	69694.9	494.18 µg/L	494.18 ppb	09:45:23
3	Zn 213.857†	41560.7	39875.3	488.87 µg/L	488.87 ppb	09:45:23

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1333083.5	103.04	%	1.418				1.38%
Sc RADIAL	23241.6	97.9	%	0.93				0.95%
Y 371.029	768573.8	100.63	%	1.359				1.35%
Ag 328.068†	75026.5	502.56	µg/L	3.349	502.56	ppb	3.349	0.67%
QC value within limits for Ag 328.068 Recovery = 100.51%								
Al 396.153Radial†	2302.1	4828.2	µg/L	49.21	4828.2	ppb	49.21	1.02%
QC value within limits for Al 396.153Radial Recovery = 96.56%								
As 188.979†	282.4	537.61	µg/L	5.083	537.61	ppb	5.083	0.95%
QC value within limits for As 188.979 Recovery = 107.52%								
B 249.677†	41444.5	469.82	µg/L	2.451	469.82	ppb	2.451	0.52%
QC value within limits for B 249.677 Recovery = 93.96%								
Ba 233.527†	35540.8	491.51	µg/L	2.903	491.51	ppb	2.903	0.59%
QC value within limits for Ba 233.527 Recovery = 98.30%								
Be 313.107†	1166954.5	493.02	µg/L	0.972	493.02	ppb	0.972	0.20%
QC value within limits for Be 313.107 Recovery = 98.60%								
Ca 317.933Radial†	8080.6	5092.4	µg/L	53.81	5092.4	ppb	53.81	1.06%
QC value within limits for Ca 317.933Radial Recovery = 101.85%								
Cd 226.502†	32792.0	489.11	µg/L	3.376	489.11	ppb	3.376	0.69%
QC value within limits for Cd 226.502 Recovery = 97.82%								
Co 228.616†	17364.8	495.68	µg/L	2.730	495.68	ppb	2.730	0.55%

```
   QC value within limits for Co 228.616  Recovery = 99.14%
Cr 267.716†            27114.9      487.84 µg/L         3.141      487.84 ppb          3.141   0.64%
   QC value within limits for Cr 267.716  Recovery = 97.57%
Cu 324.752†            73577.9      498.05 µg/L         3.443      498.05 ppb          3.443   0.69%
   QC value within limits for Cu 324.752  Recovery = 99.61%
Fe 238.204 Radial†      1664.5      5145.1 µg/L         42.00      5145.1 ppb          42.00   0.82%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.90%
K 766.490 Radial†       3615.0      4955.8 µg/L         34.75      4955.8 ppb          34.75   0.70%
   QC value within limits for K 766.490 Radial  Recovery = 99.12%
Mg 279.077 IEC†          816.4      5261.3 µg/L        106.79      5261.3 ppb         106.79   2.03%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.23%
Mn 257.610†           172816.8      496.90 µg/L         3.810      496.90 ppb          3.810   0.77%
   QC value within limits for Mn 257.610  Recovery = 99.38%
Mo 202.031†             4425.4      494.42 µg/L         4.900      494.42 ppb          4.900   0.99%
   QC value within limits for Mo 202.031  Recovery = 98.88%
Na 589.592 Radial†      6841.8      9513.1 µg/L        247.59      9513.1 ppb         247.59   2.60%
   QC value within limits for Na 589.592 Radial  Recovery = 95.13%
Ni 231.604†            17184.9      492.99 µg/L         3.533      492.99 ppb          3.533   0.72%
   QC value within limits for Ni 231.604  Recovery = 98.60%
P 214.914†              2206.0      2236.4 µg/L         22.08      2236.4 ppb          22.08   0.99%
   QC value less than the lower limit for P 214.914  Recovery = 89.46%
Pb 220.353†             2365.2      493.84 µg/L         4.062      493.84 ppb          4.062   0.82%
   QC value within limits for Pb 220.353  Recovery = 98.77%
S 181.975 Axial†         302.8      949.31 µg/L        13.546      949.31 ppb         13.546   1.43%
   QC value within limits for S 181.975 Axial  Recovery = 94.93%
Sb 206.836†              733.9      456.97 µg/L         4.764      456.97 ppb          4.764   1.04%
   QC value within limits for Sb 206.836  Recovery = 91.39%
Se 196.026†              381.4         498 µg/L           9.8         498 ppb            9.8   1.96%
   QC value within limits for Se 196.026  Recovery = 99.61%
SiO2†                  28694.4      5194.9 µg/L         38.42      5194.9 ppb          38.42   0.74%
   QC value within limits for SiO2  Recovery = 97.15%
Si 251.611†            84324.2      2422.5 µg/L         14.57      2422.5 ppb          14.57   0.60%
   QC value within limits for Si 251.611  Recovery = 96.90%
Sn 189.927†             1139.1      455.09 µg/L         6.648      455.09 ppb          6.648   1.46%
   QC value within limits for Sn 189.927  Recovery = 91.02%
Sr 421.552†            43009.3      496.58 µg/L         1.392      496.58 ppb          1.392   0.28%
   QC value within limits for Sr 421.552  Recovery = 99.32%
Ti 334.940†           268003.1      494.49 µg/L         3.288      494.49 ppb          3.288   0.66%
   QC value within limits for Ti 334.940  Recovery = 98.90%
Tl 190.801†              440.0      524.43 µg/L        10.748      524.43 ppb         10.748   2.05%
   QC value within limits for Tl 190.801  Recovery = 104.89%
U 367.007†              1919.6      512.68 µg/L         1.366      512.68 ppb          1.366   0.27%
   QC value within limits for U 367.007  Recovery = 102.54%
V 292.402†             69707.3      494.24 µg/L         3.802      494.24 ppb          3.802   0.77%
   QC value within limits for V 292.402  Recovery = 98.85%
Zn 213.857†            39915.5      489.35 µg/L         3.110      489.35 ppb          3.110   0.64%
   QC value within limits for Zn 213.857  Recovery = 97.87%
QC Failed.  Continue with analysis.
```

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

Autosampler Location: 101
Date Collected: 11/6/2013 09:45:52
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23295.2	23295.2	98.1	%			09:46:41
1	Al 396.153Radial†	-9.2	98.7	207.00	µg/L	207.00	ppb	09:46:41
1	Ca 317.933Radial†	414.7	340.2	214.39	µg/L	214.39	ppb	09:47:01
1	Fe 238.204 Radial†	63.4	31.7	97.997	µg/L	97.997	ppb	09:47:01
1	K 766.490 Radial†	852.2	149.3	204.34	µg/L	204.34	ppb	09:46:41
1	Mg 279.077 IEC†	53.1	51.0	328.38	µg/L	328.38	ppb	09:47:01
1	Na 589.592 Radial†	161.1	212.8	295.94	µg/L	295.94	ppb	09:46:41
1	Sr 421.552†	458.4	440.3	5.0827	µg/L	5.0827	ppb	09:46:41
1	Sc 361.383	1293037.3	1293037.3	99.948	%			09:48:39
1	Y 371.029	759766.6	759766.6	99.478	%			09:48:39
1	Ag 328.068†	1549.5	875.1	5.8035	µg/L	5.8035	ppb	09:48:41
1	As 188.979†	11.8	15.5	29.146	µg/L	29.146	ppb	09:49:01
1	B 249.677†	4528.8	4253.8	49.805	µg/L	49.805	ppb	09:48:41
1	Ba 233.527†	274.0	361.9	5.0038	µg/L	5.0038	ppb	09:49:01
1	Be 313.107†	3186.1	11115.7	4.6962	µg/L	4.6962	ppb	09:48:41
1	Cd 226.502†	231.5	336.4	5.0113	µg/L	5.0113	ppb	09:49:01
1	Co 228.616†	86.0	187.5	5.3589	µg/L	5.3589	ppb	09:49:01
1	Cr 267.716†	389.1	275.9	4.9204	µg/L	4.9204	ppb	09:49:01
1	Cu 324.752†	5762.0	1587.7	10.768	µg/L	10.768	ppb	09:48:41
1	Mn 257.610†	3875.4	3685.2	10.588	µg/L	10.588	ppb	09:49:01
1	Mo 202.031†	83.4	95.2	10.641	µg/L	10.641	ppb	09:49:01
1	Ni 231.604†	126.1	185.2	5.3123	µg/L	5.3123	ppb	09:49:01
1	P 214.914†	54.9	119.6	121.78	µg/L	121.78	ppb	09:49:01
1	Pb 220.353†	160.8	46.7	9.6952	µg/L	9.6952	ppb	09:49:01
1	S 181.975 Axial†	63.7	35.7	112.14	µg/L	112.14	ppb	09:49:01
1	Sb 206.836†	17.6	13.0	8.1562	µg/L	8.1562	ppb	09:49:01
1	Se 196.026†	36.4	24.6	32.0	µg/L	32.0	ppb	09:49:01
1	SiO2†	3121.1	1185.1	214.26	µg/L	214.26	ppb	09:48:41
1	Si 251.611†	3867.4	3476.4	99.990	µg/L	99.990	ppb	09:48:41
1	Sn 189.927†	20.7	20.0	7.9904	µg/L	7.9904	ppb	09:49:01
1	Ti 334.940†	4312.2	2765.5	5.0766	µg/L	5.0766	ppb	09:48:41
1	Tl 190.801†	0.3	18.3	21.980	µg/L	21.980	ppb	09:49:01
1	U 367.007†	532.3	239.8	67.229	µg/L	67.229	ppb	09:48:41
1	V 292.402†	1003.7	701.4	5.0852	µg/L	5.0852	ppb	09:48:41
1	Zn 213.857†	1396.8	847.2	10.410	µg/L	10.410	ppb	09:49:01
2	Sc RADIAL	23005.0	23005.0	96.9	%			09:47:21
2	Al 396.153Radial†	-12.4	95.2	199.83	µg/L	199.83	ppb	09:47:21
2	Ca 317.933Radial†	403.8	334.3	210.67	µg/L	210.67	ppb	09:47:41
2	Fe 238.204 Radial†	59.8	28.8	88.979	µg/L	88.979	ppb	09:47:41
2	K 766.490 Radial†	826.2	133.3	182.56	µg/L	182.56	ppb	09:47:21
2	Mg 279.077 IEC†	50.0	48.5	312.51	µg/L	312.51	ppb	09:47:41
2	Na 589.592 Radial†	121.6	174.2	242.18	µg/L	242.18	ppb	09:47:21
2	Sr 421.552†	475.3	463.7	5.3527	µg/L	5.3527	ppb	09:47:21
2	Sc 361.383	1310028.9	1310028.9	101.26	%			09:49:03
2	Y 371.029	770072.5	770072.5	100.83	%			09:49:03
2	Ag 328.068†	1532.3	838.0	5.5762	µg/L	5.5762	ppb	09:49:05
2	As 188.979†	16.6	20.0	37.748	µg/L	37.748	ppb	09:49:25
2	B 249.677†	4473.3	4140.3	48.508	µg/L	48.508	ppb	09:49:05
2	Ba 233.527†	292.6	376.7	5.2088	µg/L	5.2088	ppb	09:49:25
2	Be 313.107†	3294.0	11181.0	4.7238	µg/L	4.7238	ppb	09:49:05
2	Cd 226.502†	236.6	338.4	5.0436	µg/L	5.0436	ppb	09:49:25
2	Co 228.616†	97.6	197.8	5.6536	µg/L	5.6536	ppb	09:49:25
2	Cr 267.716†	403.6	285.1	5.1002	µg/L	5.1002	ppb	09:49:25
2	Cu 324.752†	5802.6	1553.0	10.523	µg/L	10.523	ppb	09:49:05
2	Mn 257.610†	3852.0	3611.8	10.378	µg/L	10.378	ppb	09:49:25
2	Mo 202.031†	90.7	101.3	11.320	µg/L	11.320	ppb	09:49:25
2	Ni 231.604†	128.5	185.9	5.3341	µg/L	5.3341	ppb	09:49:25
2	P 214.914†	60.5	124.4	126.72	µg/L	126.72	ppb	09:49:25
2	Pb 220.353†	159.1	42.9	8.9364	µg/L	8.9364	ppb	09:49:25

2	S 181.975 Axial†	65.1	36.2	113.91 µg/L	113.91 ppb	09:49:25
2	Sb 206.836†	10.4	5.7	3.6126 µg/L	3.6126 ppb	09:49:25
2	Se 196.026†	39.4	27.1	35.3 µg/L	35.3 ppb	09:49:25
2	SiO2†	3180.1	1202.9	217.48 µg/L	217.48 ppb	09:49:05
2	Si 251.611†	3997.3	3554.6	102.23 µg/L	102.23 ppb	09:49:05
2	Sn 189.927†	24.5	23.4	9.3630 µg/L	9.3630 ppb	09:49:25
2	Ti 334.940†	4172.7	2571.9	4.7301 µg/L	4.7301 ppb	09:49:05
2	Tl 190.801†	-3.5	14.5	17.364 µg/L	17.364 ppb	09:49:25
2	U 367.007†	462.1	163.6	45.709 µg/L	45.709 ppb	09:49:05
2	V 292.402†	1069.7	753.6	5.4445 µg/L	5.4445 ppb	09:49:05
2	Zn 213.857†	1393.3	825.7	10.145 µg/L	10.145 ppb	09:49:25
3	Sc RADIAL	21485.8	21485.8	90.5 %		09:48:02
3	Al 396.153Radial†	-23.1	82.5	173.12 µg/L	173.12 ppb	09:48:02
3	Ca 317.933Radial†	396.4	355.5	224.05 µg/L	224.05 ppb	09:48:22
3	Fe 238.204 Radial†	61.3	34.8	107.65 µg/L	107.65 ppb	09:48:22
3	K 766.490 Radial†	833.4	201.7	276.05 µg/L	276.05 ppb	09:48:02
3	Mg 279.077 IEC†	47.5	49.4	318.17 µg/L	318.17 ppb	09:48:22
3	Na 589.592 Radial†	137.2	200.2	278.40 µg/L	278.40 ppb	09:48:02
3	Sr 421.552†	441.9	461.5	5.3268 µg/L	5.3268 ppb	09:48:02
3	Sc 361.383	1312931.1	1312931.1	101.49 %		09:49:27
3	Y 371.029	771569.9	771569.9	101.02 %		09:49:27
3	Ag 328.068†	1621.7	922.7	6.1324 µg/L	6.1324 ppb	09:49:29
3	As 188.979†	16.0	19.4	36.580 µg/L	36.580 ppb	09:49:49
3	B 249.677†	4468.7	4126.0	48.231 µg/L	48.231 ppb	09:49:29
3	Ba 233.527†	286.0	369.5	5.1089 µg/L	5.1089 ppb	09:49:49
3	Be 313.107†	3217.8	11098.7	4.6890 µg/L	4.6890 ppb	09:49:29
3	Cd 226.502†	242.2	343.4	5.1154 µg/L	5.1154 ppb	09:49:49
3	Co 228.616†	91.9	192.0	5.4892 µg/L	5.4892 ppb	09:49:49
3	Cr 267.716†	400.5	281.3	5.0245 µg/L	5.0245 ppb	09:49:49
3	Cu 324.752†	5777.6	1515.7	10.278 µg/L	10.278 ppb	09:49:29
3	Mn 257.610†	3847.7	3599.2	10.342 µg/L	10.342 ppb	09:49:49
3	Mo 202.031†	98.4	108.7	12.146 µg/L	12.146 ppb	09:49:49
3	Ni 231.604†	118.5	175.8	5.0432 µg/L	5.0432 ppb	09:49:49
3	P 214.914†	66.6	130.3	132.63 µg/L	132.63 ppb	09:49:49
3	Pb 220.353†	144.7	28.3	5.8938 µg/L	5.8938 ppb	09:49:49
3	S 181.975 Axial†	62.3	33.3	104.58 µg/L	104.58 ppb	09:49:49
3	Sb 206.836†	21.5	16.6	10.407 µg/L	10.407 ppb	09:49:49
3	Se 196.026†	39.0	26.6	34.6 µg/L	34.6 ppb	09:49:49
3	SiO2†	3251.3	1266.1	228.89 µg/L	228.89 ppb	09:49:29
3	Si 251.611†	4022.0	3570.1	102.67 µg/L	102.67 ppb	09:49:29
3	Sn 189.927†	27.5	26.4	10.556 µg/L	10.556 ppb	09:49:49
3	Ti 334.940†	4129.3	2519.9	4.6295 µg/L	4.6295 ppb	09:49:29
3	Tl 190.801†	2.1	20.0	24.012 µg/L	24.012 ppb	09:49:49
3	U 367.007†	500.6	200.5	56.049 µg/L	56.049 ppb	09:49:29
3	V 292.402†	1024.2	706.4	5.1338 µg/L	5.1338 ppb	09:49:29
3	Zn 213.857†	1399.8	829.1	10.186 µg/L	10.186 ppb	09:49:49

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1305332.4	100.90	%	0.831				0.82%
Sc RADIAL	22595.3	95.2	%	4.09				4.30%
Y 371.029	767136.3	100.44	%	0.841				0.84%
Ag 328.068†	878.6	5.8374	µg/L	0.27962	5.8374	ppb	0.27962	4.79%
QC value within limits for Ag 328.068 Recovery = 116.75%								
Al 396.153Radial†	92.1	193.32	µg/L	17.857	193.32	ppb	17.857	9.24%
QC value within limits for Al 396.153Radial Recovery = 96.66%								
As 188.979†	18.3	34.492	µg/L	4.6657	34.492	ppb	4.6657	13.53%
QC value within limits for As 188.979 Recovery = 114.97%								
B 249.677†	4173.4	48.848	µg/L	0.8404	48.848	ppb	0.8404	1.72%
QC value within limits for B 249.677 Recovery = 97.70%								
Ba 233.527†	369.3	5.1071	µg/L	0.10251	5.1071	ppb	0.10251	2.01%
QC value within limits for Ba 233.527 Recovery = 102.14%								
Be 313.107†	11131.8	4.7030	µg/L	0.01835	4.7030	ppb	0.01835	0.39%
QC value within limits for Be 313.107 Recovery = 94.06%								
Ca 317.933Radial†	343.4	216.37	µg/L	6.905	216.37	ppb	6.905	3.19%
QC value within limits for Ca 317.933Radial Recovery = 108.18%								
Cd 226.502†	339.4	5.0568	µg/L	0.05327	5.0568	ppb	0.05327	1.05%
QC value within limits for Cd 226.502 Recovery = 101.14%								
Co 228.616†	192.4	5.5006	µg/L	0.14769	5.5006	ppb	0.14769	2.68%

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   QC value within limits for Co 228.616  Recovery = 110.01%
Cr 267.716†              280.8      5.0150 µg/L       0.09026      5.0150 ppb        0.09026   1.80%
   QC value within limits for Cr 267.716  Recovery = 100.30%
Cu 324.752†             1552.1      10.523 µg/L        0.2453      10.523 ppb         0.2453   2.33%
   QC value within limits for Cu 324.752  Recovery = 105.23%
Fe 238.204 Radial†        31.7      98.207 µg/L        9.3351      98.207 ppb         9.3351   9.51%
   QC value within limits for Fe 238.204 Radial  Recovery = 98.21%
K 766.490 Radial†        161.4      220.98 µg/L        48.915      220.98 ppb         48.915  22.14%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 147.32%
Mg 279.077 IEC†           49.6      319.69 µg/L         8.042      319.69 ppb          8.042   2.52%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.56%
Mn 257.610†             3632.1      10.436 µg/L        0.1333      10.436 ppb         0.1333   1.28%
   QC value within limits for Mn 257.610  Recovery = 104.36%
Mo 202.031†              101.7      11.369 µg/L        0.7538      11.369 ppb         0.7538   6.63%
   QC value within limits for Mo 202.031  Recovery = 113.69%
Na 589.592 Radial†       195.7      272.18 µg/L        27.415      272.18 ppb         27.415  10.07%
   QC value within limits for Na 589.592 Radial  Recovery = 90.73%
Ni 231.604†              182.3      5.2299 µg/L       0.16207      5.2299 ppb        0.16207   3.10%
   QC value within limits for Ni 231.604  Recovery = 104.60%
P 214.914†               124.8      127.04 µg/L         5.430      127.04 ppb          5.430   4.27%
   QC value within limits for P 214.914  Recovery = 84.70%
Pb 220.353†               39.3      8.1751 µg/L       2.01175      8.1751 ppb        2.01175  24.61%
   QC value within limits for Pb 220.353  Recovery = 81.75%
S 181.975 Axial†          35.1      110.21 µg/L         4.954      110.21 ppb          4.954   4.50%
   QC value within limits for S 181.975 Axial  Recovery = 110.21%
Sb 206.836†               11.8      7.3921 µg/L       3.46127      7.3921 ppb        3.46127  46.82%
   QC value within limits for Sb 206.836  Recovery = 73.92%
Se 196.026†               26.1        34.0 µg/L          1.74        34.0 ppb           1.74   5.11%
   QC value within limits for Se 196.026  Recovery = 113.25%
SiO2†                   1218.0      220.21 µg/L         7.689      220.21 ppb          7.689   3.49%
   QC value within limits for SiO2  Recovery = 103.39%
Si 251.611†             3533.7      101.63 µg/L         1.437      101.63 ppb          1.437   1.41%
   QC value within limits for Si 251.611  Recovery = 101.63%
Sn 189.927†               23.3      9.3031 µg/L       1.28380      9.3031 ppb        1.28380  13.80%
   QC value within limits for Sn 189.927  Recovery = 93.03%
Sr 421.552†              455.2      5.2541 µg/L       0.14896      5.2541 ppb        0.14896   2.84%
   QC value within limits for Sr 421.552  Recovery = 105.08%
Ti 334.940†             2619.1      4.8121 µg/L       0.23456      4.8121 ppb        0.23456   4.87%
   QC value within limits for Ti 334.940  Recovery = 96.24%
Tl 190.801†               17.6      21.119 µg/L        3.4067      21.119 ppb         3.4067  16.13%
   QC value within limits for Tl 190.801  Recovery = 105.59%
U 367.007†               201.3      56.329 µg/L       10.7626      56.329 ppb        10.7626  19.11%
   QC value within limits for U 367.007  Recovery = 112.66%
V 292.402†               720.5      5.2212 µg/L       0.19495      5.2212 ppb        0.19495   3.73%
   QC value within limits for V 292.402  Recovery = 104.42%
Zn 213.857†              834.0      10.247 µg/L        0.1426      10.247 ppb         0.1426   1.39%
   QC value within limits for Zn 213.857  Recovery = 102.47%
QC Failed.  Continue with analysis.
```

Sequence No.: 5 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 09:49:58**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23316.6	23316.6	98.2	%			09:50:47
1	Al 396.153Radial†	-92.8	13.5	28.253	µg/L	28.253	ppb	09:50:47
1	Ca 317.933Radial†	85.3	4.4	2.8044	µg/L	2.8044	ppb	09:51:07
1	Fe 238.204 Radial†	29.1	-3.4	-10.454	µg/L	-10.454	ppb	09:51:07
1	K 766.490 Radial†	741.7	35.9	49.197	µg/L	49.197	ppb	09:50:47
1	Mg 279.077 IEC†	-0.4	-3.5	-22.449	µg/L	-22.449	ppb	09:51:07
1	Na 589.592 Radial†	-72.7	-25.4	-35.312	µg/L	-35.312	ppb	09:50:47
1	Sr 421.552†	44.0	18.0	0.2074	µg/L	0.2074	ppb	09:50:47
1	Sc 361.383	1314192.8	1314192.8	101.58	%			09:52:44
1	Y 371.029	772094.9	772094.9	101.09	%			09:52:44
1	Ag 328.068†	823.0	134.9	0.9083	µg/L	0.9083	ppb	09:52:46
1	As 188.979†	-2.8	0.9	1.6852	µg/L	1.6852	ppb	09:53:06
1	B 249.677†	366.3	83.3	1.0061	µg/L	1.0061	ppb	09:52:46
1	Ba 233.527†	-72.4	16.4	0.2268	µg/L	0.2268	ppb	09:53:06
1	Be 313.107†	-9210.8	-1139.2	-0.4813	µg/L	-0.4813	ppb	09:52:46
1	Cd 226.502†	-133.0	-26.2	-0.3897	µg/L	-0.3897	ppb	09:53:06
1	Co 228.616†	-78.7	24.0	0.6879	µg/L	0.6879	ppb	09:53:06
1	Cr 267.716†	100.5	-14.5	-0.2570	µg/L	-0.2570	ppb	09:53:06
1	Cu 324.752†	4383.4	137.8	0.9256	µg/L	0.9256	ppb	09:52:46
1	Mn 257.610†	210.3	14.8	0.0430	µg/L	0.0430	ppb	09:53:06
1	Mo 202.031†	2.7	14.4	1.6053	µg/L	1.6053	ppb	09:53:06
1	Ni 231.604†	-83.8	-23.5	-0.6727	µg/L	-0.6727	ppb	09:53:06
1	P 214.914†	-88.8	-22.7	-23.159	µg/L	-23.159	ppb	09:53:06
1	Pb 220.353†	106.4	-9.5	-1.9738	µg/L	-1.9738	ppb	09:53:06
1	S 181.975 Axial†	32.8	4.2	13.287	µg/L	13.287	ppb	09:53:06
1	Sb 206.836†	-5.1	-9.6	-5.9352	µg/L	-5.9352	ppb	09:53:06
1	Se 196.026†	14.5	2.4	3.13	µg/L	3.13	ppb	09:53:06
1	SiO2†	2059.8	90.2	16.289	µg/L	16.289	ppb	09:52:46
1	Si 251.611†	439.7	39.9	1.1272	µg/L	1.1272	ppb	09:53:06
1	Sn 189.927†	0.1	-0.7	-0.2680	µg/L	-0.2680	ppb	09:53:06
1	Ti 334.940†	1532.7	-40.1	-0.0705	µg/L	-0.0705	ppb	09:52:46
1	Tl 190.801†	-15.8	2.5	2.9816	µg/L	2.9816	ppb	09:53:06
1	U 367.007†	276.0	-21.1	-5.9055	µg/L	-5.9055	ppb	09:52:46
1	V 292.402†	307.5	-0.1	0.0132	µg/L	0.0132	ppb	09:52:46
1	Zn 213.857†	555.9	-3.0	-0.0325	µg/L	-0.0325	ppb	09:53:06
2	Sc RADIAL	23250.6	23250.6	97.9	%			09:51:27
2	Al 396.153Radial†	-96.2	9.8	20.534	µg/L	20.534	ppb	09:51:27
2	Ca 317.933Radial†	83.0	2.3	1.4505	µg/L	1.4505	ppb	09:51:47
2	Fe 238.204 Radial†	33.0	0.7	2.1858	µg/L	2.1858	ppb	09:51:47
2	K 766.490 Radial†	733.3	29.4	40.285	µg/L	40.285	ppb	09:51:27
2	Mg 279.077 IEC†	2.4	-0.7	-4.3988	µg/L	-4.3988	ppb	09:51:47
2	Na 589.592 Radial†	-58.1	-10.6	-14.791	µg/L	-14.791	ppb	09:51:27
2	Sr 421.552†	22.8	-3.6	-0.0411	µg/L	-0.0411	ppb	09:51:27
2	Sc 361.383	1324277.3	1324277.3	102.36	%			09:53:09
2	Y 371.029	777917.8	777917.8	101.85	%			09:53:09
2	Ag 328.068†	730.4	38.3	0.2435	µg/L	0.2435	ppb	09:53:11
2	As 188.979†	-4.8	-1.1	-1.9848	µg/L	-1.9848	ppb	09:53:31
2	B 249.677†	316.6	32.0	0.3561	µg/L	0.3561	ppb	09:53:11
2	Ba 233.527†	-76.0	13.5	0.1856	µg/L	0.1856	ppb	09:53:31
2	Be 313.107†	-9271.8	-1129.7	-0.4773	µg/L	-0.4773	ppb	09:53:11
2	Cd 226.502†	-134.5	-26.6	-0.3974	µg/L	-0.3974	ppb	09:53:31
2	Co 228.616†	-78.5	24.7	0.7075	µg/L	0.7075	ppb	09:53:31
2	Cr 267.716†	110.2	-5.8	-0.1133	µg/L	-0.1133	ppb	09:53:31
2	Cu 324.752†	4541.7	259.6	1.7602	µg/L	1.7602	ppb	09:53:11
2	Mn 257.610†	203.0	6.1	0.0178	µg/L	0.0178	ppb	09:53:31
2	Mo 202.031†	-6.0	5.8	0.6503	µg/L	0.6503	ppb	09:53:31
2	Ni 231.604†	-74.8	-14.1	-0.4046	µg/L	-0.4046	ppb	09:53:31
2	P 214.914†	-73.9	-7.5	-7.6691	µg/L	-7.6691	ppb	09:53:31
2	Pb 220.353†	71.7	-44.2	-9.2060	µg/L	-9.2060	ppb	09:53:31

2	S 181.975 Axial†	31.5	2.7	8.3941	µg/L	8.3941	ppb	09:53:31
2	Sb 206.836†	0.8	-3.8	-2.3580	µg/L	-2.3580	ppb	09:53:31
2	Se 196.026†	11.0	-1.0	-1.35	µg/L	-1.35	ppb	09:53:31
2	SiO2†	2038.0	53.4	9.6409	µg/L	9.6409	ppb	09:53:11
2	Si 251.611†	435.8	32.8	0.9366	µg/L	0.9366	ppb	09:53:31
2	Sn 189.927†	-0.3	-1.0	-0.4107	µg/L	-0.4107	ppb	09:53:31
2	Ti 334.940†	1575.7	-9.5	-0.0247	µg/L	-0.0247	ppb	09:53:11
2	Tl 190.801†	-18.2	0.2	0.2680	µg/L	0.2680	ppb	09:53:31
2	U 367.007†	350.6	49.8	14.065	µg/L	14.065	ppb	09:53:11
2	V 292.402†	303.8	-6.0	-0.0257	µg/L	-0.0257	ppb	09:53:11
2	Zn 213.857†	561.1	-2.1	-0.0257	µg/L	-0.0257	ppb	09:53:31
3	Sc RADIAL	23307.1	23307.1	98.2	%			09:52:07
3	Al 396.153Radial†	-118.0	-12.2	-25.599	µg/L	-25.599	ppb	09:52:07
3	Ca 317.933Radial†	73.6	-7.4	-4.6969	µg/L	-4.6969	ppb	09:52:27
3	Fe 238.204 Radial†	29.7	-2.7	-8.3903	µg/L	-8.3903	ppb	09:52:27
3	K 766.490 Radial†	751.6	46.4	63.444	µg/L	63.444	ppb	09:52:07
3	Mg 279.077 IEC†	3.8	0.7	4.5715	µg/L	4.5715	ppb	09:52:27
3	Na 589.592 Radial†	-68.4	-21.0	-29.231	µg/L	-29.231	ppb	09:52:07
3	Sr 421.552†	40.0	13.9	0.1609	µg/L	0.1609	ppb	09:52:07
3	Sc 361.383	1316658.5	1316658.5	101.77	%			09:53:33
3	Y 371.029	773244.7	773244.7	101.24	%			09:53:33
3	Ag 328.068†	603.8	-81.9	-0.5519	µg/L	-0.5519	ppb	09:53:35
3	As 188.979†	-0.6	3.0	5.7149	µg/L	5.7149	ppb	09:53:55
3	B 249.677†	361.2	77.7	0.9249	µg/L	0.9249	ppb	09:53:35
3	Ba 233.527†	-93.5	-4.2	-0.0564	µg/L	-0.0564	ppb	09:53:55
3	Be 313.107†	-8893.7	-810.7	-0.3425	µg/L	-0.3425	ppb	09:53:35
3	Cd 226.502†	-112.3	-5.6	-0.0828	µg/L	-0.0828	ppb	09:53:55
3	Co 228.616†	-84.8	18.1	0.5176	µg/L	0.5176	ppb	09:53:55
3	Cr 267.716†	100.0	-15.2	-0.2784	µg/L	-0.2784	ppb	09:53:55
3	Cu 324.752†	4355.6	102.4	0.6934	µg/L	0.6934	ppb	09:53:35
3	Mn 257.610†	206.3	10.6	0.0299	µg/L	0.0299	ppb	09:53:55
3	Mo 202.031†	-4.1	7.6	0.8522	µg/L	0.8522	ppb	09:53:55
3	Ni 231.604†	-70.1	-9.9	-0.2829	µg/L	-0.2829	ppb	09:53:55
3	P 214.914†	-88.6	-22.4	-22.874	µg/L	-22.874	ppb	09:53:55
3	Pb 220.353†	110.5	-5.7	-1.1946	µg/L	-1.1946	ppb	09:53:55
3	S 181.975 Axial†	31.8	3.2	10.068	µg/L	10.068	ppb	09:53:55
3	Sb 206.836†	1.2	-3.3	-2.0709	µg/L	-2.0709	ppb	09:53:55
3	Se 196.026†	10.9	-1.1	-1.42	µg/L	-1.42	ppb	09:53:55
3	SiO2†	2055.5	82.1	14.836	µg/L	14.836	ppb	09:53:35
3	Si 251.611†	430.9	30.4	0.8633	µg/L	0.8633	ppb	09:53:55
3	Sn 189.927†	4.4	3.6	1.4252	µg/L	1.4252	ppb	09:53:55
3	Ti 334.940†	1649.4	71.7	0.1289	µg/L	0.1289	ppb	09:53:35
3	Tl 190.801†	-11.7	6.5	7.8421	µg/L	7.8421	ppb	09:53:55
3	U 367.007†	321.2	22.8	6.5029	µg/L	6.5029	ppb	09:53:35
3	V 292.402†	347.7	38.9	0.2834	µg/L	0.2834	ppb	09:53:35
3	Zn 213.857†	563.1	3.0	0.0396	µg/L	0.0396	ppb	09:53:55

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1318376.2	101.91	%	0.406				0.40%
Sc RADIAL	23291.4	98.1	%	0.15				0.15%
Y 371.029	774419.1	101.40	%	0.404				0.40%
Ag 328.068†	30.4	0.2000	µg/L	0.73104	0.2000	ppb	0.73104	365.60%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	3.7	7.7290	µg/L	29.12002	7.7290	ppb	29.12002	376.77%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	1.0	1.8051	µg/L	3.85126	1.8051	ppb	3.85126	213.35%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	64.3	0.7624	µg/L	0.35418	0.7624	ppb	0.35418	46.46%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.6	0.1186	µg/L	0.15300	0.1186	ppb	0.15300	128.95%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1026.5	-0.4337	µg/L	0.07900	-0.4337	ppb	0.07900	18.22%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-0.2	-0.1473	µg/L	3.99776	-0.1473	ppb	3.99776	>999.9%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-19.5	-0.2900	µg/L	0.17944	-0.2900	ppb	0.17944	61.88%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	22.3	0.6377	µg/L	0.10446	0.6377	ppb	0.10446	16.38%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -11.8     -0.2163 µg/L       0.08978     -0.2163 ppb        0.08978  41.51%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              166.6      1.1264 µg/L       0.56106      1.1264 ppb        0.56106  49.81%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -1.8     -5.5529 µg/L       6.78088     -5.5529 ppb        6.78088 122.11%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         37.2      50.975 µg/L       11.6819      50.975 ppb        11.6819  22.92%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.2     -7.4255 µg/L      13.76220     -7.4255 ppb       13.76220 185.34%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               10.5      0.0303 µg/L       0.01260      0.0303 ppb        0.01260  41.64%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                9.3      1.0360 µg/L       0.50331      1.0360 ppb        0.50331  48.58%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -19.0     -26.445 µg/L       10.5401     -26.445 ppb        10.5401  39.86%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -15.8     -0.4534 µg/L       0.19944     -0.4534 ppb        0.19944  43.98%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               -17.5     -17.901 µg/L        8.8619     -17.901 ppb         8.8619  49.51%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -19.8     -4.1248 µg/L       4.41766     -4.1248 ppb        4.41766 107.10%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           3.4      10.583 µg/L        2.4865      10.583 ppb         2.4865  23.50%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -5.6     -3.4547 µg/L       2.15297     -3.4547 ppb        2.15297  62.32%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.1       0.122 µg/L        2.6085       0.122 ppb         2.6085 >999.9%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     75.2      13.589 µg/L        3.4952      13.589 ppb         3.4952  25.72%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               34.4      0.9757 µg/L       0.13621      0.9757 ppb        0.13621  13.96%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                0.6      0.2488 µg/L       1.02126      0.2488 ppb        1.02126 410.41%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                9.4      0.1091 µg/L       0.13208      0.1091 ppb        0.13208 121.08%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                7.4      0.0112 µg/L       0.10445      0.0112 ppb        0.10445 929.78%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                3.1      3.6972 µg/L       3.83745      3.6972 ppb        3.83745 103.79%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                17.2      4.8874 µg/L      10.08277      4.8874 ppb       10.08277 206.30%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                10.9      0.0903 µg/L       0.16831      0.0903 ppb        0.16831 186.37%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -0.7     -0.0062 µg/L       0.03983     -0.0062 ppb        0.03983 643.23%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 7 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 09:58:08**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23257.5	23257.5	98.0	%			09:58:39
1	Al 396.153Radial†	2155.2	2308.2	4840.8	µg/L	4840.8	ppb	09:58:59
1	Ca 317.933Radial†	7998.5	8083.0	5093.9	µg/L	5093.9	ppb	09:58:59
1	Fe 238.204 Radial†	1667.7	1669.5	5160.9	µg/L	5160.9	ppb	09:58:59
1	K 766.490 Radial†	4284.7	3654.7	5009.9	µg/L	5009.9	ppb	09:58:39
1	Mg 279.077 IEC†	794.5	807.9	5206.8	µg/L	5206.8	ppb	09:58:59
1	Na 589.592 Radial†	6953.3	7147.0	9937.6	µg/L	9937.6	ppb	09:58:39
1	Sr 421.552†	42478.5	43338.0	500.38	µg/L	500.38	ppb	09:58:39
1	Sc 361.383	1328517.6	1328517.6	102.69	%			10:00:01
1	Y 371.029	765414.7	765414.7	100.22	%			10:00:01
1	Ag 328.068†	77421.4	74717.4	500.48	µg/L	500.48	ppb	10:00:03
1	As 188.979†	292.0	288.0	548.26	µg/L	548.26	ppb	10:00:23
1	B 249.677†	42781.7	41383.4	469.00	µg/L	469.00	ppb	10:00:03
1	Ba 233.527†	36146.9	35287.4	488.00	µg/L	488.00	ppb	10:00:03
1	Be 313.107†	1190007.5	1166752.3	492.94	µg/L	492.94	ppb	10:00:01
1	Cd 226.502†	33302.5	32534.6	485.26	µg/L	485.26	ppb	10:00:03
1	Co 228.616†	17557.0	17198.4	490.94	µg/L	490.94	ppb	10:00:03
1	Cr 267.716†	27665.4	26827.0	482.65	µg/L	482.65	ppb	10:00:03
1	Cu 324.752†	79408.9	73150.7	495.16	µg/L	495.16	ppb	10:00:03
1	Mn 257.610†	176809.0	171983.7	494.51	µg/L	494.51	ppb	10:00:03
1	Mo 202.031†	4601.3	4492.4	501.90	µg/L	501.90	ppb	10:00:23
1	Ni 231.604†	17453.4	17055.0	489.27	µg/L	489.27	ppb	10:00:03
1	P 214.914†	2231.2	2237.4	2268.4	µg/L	2268.4	ppb	10:00:23
1	Pb 220.353†	2595.5	2413.2	503.86	µg/L	503.86	ppb	10:00:23
1	S 181.975 Axial†	348.7	311.4	976.27	µg/L	976.27	ppb	10:00:23
1	Sb 206.836†	766.2	741.6	461.89	µg/L	461.89	ppb	10:00:23
1	Se 196.026†	408.6	386.0	504	µg/L	504	ppb	10:00:23
1	SiO2†	31250.7	28494.2	5158.6	µg/L	5158.6	ppb	10:00:03
1	Si 251.611†	86524.5	83864.2	2409.2	µg/L	2409.2	ppb	10:00:03
1	Sn 189.927†	1194.7	1162.6	464.49	µg/L	464.49	ppb	10:00:23
1	Ti 334.940†	275548.0	266778.6	492.23	µg/L	492.23	ppb	10:00:03
1	Tl 190.801†	449.0	455.2	542.82	µg/L	542.82	ppb	10:00:23
1	U 367.007†	2308.2	1955.0	522.64	µg/L	522.64	ppb	10:00:03
1	V 292.402†	71462.8	69287.4	491.40	µg/L	491.40	ppb	10:00:03
1	Zn 213.857†	41218.2	39587.9	485.33	µg/L	485.33	ppb	10:00:03
2	Sc RADIAL	23586.8	23586.8	99.3	%			09:59:01
2	Al 396.153Radial†	2164.7	2287.0	4796.5	µg/L	4796.5	ppb	09:59:21
2	Ca 317.933Radial†	8036.6	8007.3	5046.3	µg/L	5046.3	ppb	09:59:21
2	Fe 238.204 Radial†	1671.2	1649.2	5097.9	µg/L	5097.9	ppb	09:59:21
2	K 766.490 Radial†	4168.3	3476.5	4766.2	µg/L	4766.2	ppb	09:59:01
2	Mg 279.077 IEC†	807.6	809.8	5218.8	µg/L	5218.8	ppb	09:59:21
2	Na 589.592 Radial†	6703.9	6796.9	9450.8	µg/L	9450.8	ppb	09:59:01
2	Sr 421.552†	41393.8	41640.8	480.78	µg/L	480.78	ppb	09:59:01
2	Sc 361.383	1336702.8	1336702.8	103.32	%			10:00:25
2	Y 371.029	770780.7	770780.7	100.92	%			10:00:25
2	Ag 328.068†	77898.4	74717.4	500.49	µg/L	500.49	ppb	10:00:27
2	As 188.979†	287.4	281.8	536.51	µg/L	536.51	ppb	10:00:47
2	B 249.677†	42914.6	41256.9	467.85	µg/L	467.85	ppb	10:00:27
2	Ba 233.527†	36397.2	35314.0	488.37	µg/L	488.37	ppb	10:00:27
2	Be 313.107†	1195090.7	1164575.9	492.02	µg/L	492.02	ppb	10:00:25
2	Cd 226.502†	33589.9	32614.2	486.45	µg/L	486.45	ppb	10:00:27
2	Co 228.616†	17696.1	17228.3	491.79	µg/L	491.79	ppb	10:00:27
2	Cr 267.716†	27874.5	26864.5	483.34	µg/L	483.34	ppb	10:00:27
2	Cu 324.752†	79998.5	73247.9	495.81	µg/L	495.81	ppb	10:00:27
2	Mn 257.610†	177694.3	171786.2	493.94	µg/L	493.94	ppb	10:00:27
2	Mo 202.031†	4566.7	4431.5	495.10	µg/L	495.10	ppb	10:00:47
2	Ni 231.604†	17460.8	16958.2	486.49	µg/L	486.49	ppb	10:00:27
2	P 214.914†	2204.2	2198.0	2228.3	µg/L	2228.3	ppb	10:00:47
2	Pb 220.353†	2568.3	2371.4	495.14	µg/L	495.14	ppb	10:00:47

2	S 181.975 Axial†	342.3	303.2	950.33 µg/L	950.33 ppb	10:00:47
2	Sb 206.836†	756.3	727.4	452.99 µg/L	452.99 ppb	10:00:47
2	Se 196.026†	408.1	383.2	500 µg/L	500 ppb	10:00:47
2	SiO2†	31470.4	28520.5	5163.4 µg/L	5163.4 ppb	10:00:27
2	Si 251.611†	87135.1	83939.2	2411.4 µg/L	2411.4 ppb	10:00:27
2	Sn 189.927†	1172.7	1134.2	453.14 µg/L	453.14 ppb	10:00:47
2	Ti 334.940†	276918.5	266461.9	491.65 µg/L	491.65 ppb	10:00:27
2	Tl 190.801†	431.6	435.7	519.30 µg/L	519.30 ppb	10:00:47
2	U 367.007†	2271.6	1905.8	509.05 µg/L	509.05 ppb	10:00:27
2	V 292.402†	71798.6	69186.3	490.59 µg/L	490.59 ppb	10:00:27
2	Zn 213.857†	41613.6	39724.8	487.05 µg/L	487.05 ppb	10:00:27
3	Sc RADIAL	23628.0	23628.0	99.5 %		09:59:23
3	Al 396.153Radial†	2155.4	2273.8	4768.8 µg/L	4768.8 ppb	09:59:43
3	Ca 317.933Radial†	8038.1	7994.7	5038.3 µg/L	5038.3 ppb	09:59:43
3	Fe 238.204 Radial†	1678.1	1653.2	5110.2 µg/L	5110.2 ppb	09:59:43
3	K 766.490 Radial†	4411.7	3713.8	5090.9 µg/L	5090.9 ppb	09:59:23
3	Mg 279.077 IEC†	805.2	806.0	5194.4 µg/L	5194.4 ppb	09:59:43
3	Na 589.592 Radial†	6936.5	7018.9	9759.3 µg/L	9759.3 ppb	09:59:23
3	Sr 421.552†	42901.5	43083.2	497.44 µg/L	497.44 ppb	09:59:23
3	Sc 361.383	1331461.9	1331461.9	102.92 %		10:00:50
3	Y 371.029	767718.8	767718.8	100.52 %		10:00:50
3	Ag 328.068†	77953.8	75068.0	502.85 µg/L	502.85 ppb	10:00:52
3	As 188.979†	294.4	289.7	551.39 µg/L	551.39 ppb	10:01:12
3	B 249.677†	42681.4	41193.8	466.94 µg/L	466.94 ppb	10:00:52
3	Ba 233.527†	36453.9	35507.9	491.05 µg/L	491.05 ppb	10:00:52
3	Be 313.107†	1190321.7	1164494.9	491.98 µg/L	491.98 ppb	10:00:50
3	Cd 226.502†	33625.1	32776.3	488.88 µg/L	488.88 ppb	10:00:52
3	Co 228.616†	17720.6	17319.5	494.39 µg/L	494.39 ppb	10:00:52
3	Cr 267.716†	27959.0	27052.8	486.73 µg/L	486.73 ppb	10:00:52
3	Cu 324.752†	79978.7	73533.4	497.73 µg/L	497.73 ppb	10:00:52
3	Mn 257.610†	177942.6	172704.4	496.58 µg/L	496.58 ppb	10:00:52
3	Mo 202.031†	4572.4	4454.4	497.66 µg/L	497.66 ppb	10:01:12
3	Ni 231.604†	17597.1	17157.1	492.19 µg/L	492.19 ppb	10:00:52
3	P 214.914†	2208.3	2210.3	2240.8 µg/L	2240.8 ppb	10:01:12
3	Pb 220.353†	2568.5	2381.4	497.23 µg/L	497.23 ppb	10:01:12
3	S 181.975 Axial†	349.5	311.5	976.45 µg/L	976.45 ppb	10:01:12
3	Sb 206.836†	758.8	732.7	456.31 µg/L	456.31 ppb	10:01:12
3	Se 196.026†	406.0	382.7	500 µg/L	500 ppb	10:01:12
3	SiO2†	31484.1	28653.7	5187.5 µg/L	5187.5 ppb	10:00:52
3	Si 251.611†	87091.6	84228.9	2419.7 µg/L	2419.7 ppb	10:00:52
3	Sn 189.927†	1184.4	1150.1	459.46 µg/L	459.46 ppb	10:01:12
3	Ti 334.940†	277106.8	267699.8	493.93 µg/L	493.93 ppb	10:00:52
3	Tl 190.801†	442.6	448.0	534.17 µg/L	534.17 ppb	10:01:12
3	U 367.007†	2236.5	1880.4	501.79 µg/L	501.79 ppb	10:00:52
3	V 292.402†	71844.6	69504.5	492.85 µg/L	492.85 ppb	10:00:52
3	Zn 213.857†	41611.8	39881.5	488.95 µg/L	488.95 ppb	10:00:52

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1332227.4	102.98	%	0.320				0.31%
Sc RADIAL	23490.8	98.9	%	0.86				0.86%
Y 371.029	767971.4	100.55	%	0.352				0.35%
Ag 328.068†	74834.2	501.27	µg/L	1.364	501.27	ppb	1.364	0.27%
QC value within limits for Ag 328.068 Recovery = 100.25%								
Al 396.153Radial†	2289.7	4802.0	µg/L	36.30	4802.0	ppb	36.30	0.76%
QC value within limits for Al 396.153Radial Recovery = 96.04%								
As 188.979†	286.5	545.39	µg/L	7.844	545.39	ppb	7.844	1.44%
QC value within limits for As 188.979 Recovery = 109.08%								
B 249.677†	41278.1	467.93	µg/L	1.036	467.93	ppb	1.036	0.22%
QC value within limits for B 249.677 Recovery = 93.59%								
Ba 233.527†	35369.8	489.14	µg/L	1.663	489.14	ppb	1.663	0.34%
QC value within limits for Ba 233.527 Recovery = 97.83%								
Be 313.107†	1165274.4	492.31	µg/L	0.541	492.31	ppb	0.541	0.11%
QC value within limits for Be 313.107 Recovery = 98.46%								
Ca 317.933Radial†	8028.3	5059.5	µg/L	30.09	5059.5	ppb	30.09	0.59%
QC value within limits for Ca 317.933Radial Recovery = 101.19%								
Cd 226.502†	32641.7	486.86	µg/L	1.843	486.86	ppb	1.843	0.38%
QC value within limits for Cd 226.502 Recovery = 97.37%								
Co 228.616†	17248.7	492.37	µg/L	1.799	492.37	ppb	1.799	0.37%

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   QC value within limits for Co 228.616  Recovery = 98.47%
Cr 267.716†            26914.7      484.24 µg/L         2.183      484.24 ppb          2.183   0.45%
   QC value within limits for Cr 267.716  Recovery = 96.85%
Cu 324.752†            73310.7      496.23 µg/L         1.338      496.23 ppb          1.338   0.27%
   QC value within limits for Cu 324.752  Recovery = 99.25%
Fe 238.204 Radial†      1657.3      5123.0 µg/L         33.37      5123.0 ppb          33.37   0.65%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.46%
K 766.490 Radial†       3615.0      4955.6 µg/L        169.01      4955.6 ppb         169.01   3.41%
   QC value within limits for K 766.490 Radial  Recovery = 99.11%
Mg 279.077 IEC†          807.9      5206.7 µg/L         12.21      5206.7 ppb          12.21   0.23%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.13%
Mn 257.610†           172158.1      495.01 µg/L         1.390      495.01 ppb          1.390   0.28%
   QC value within limits for Mn 257.610  Recovery = 99.00%
Mo 202.031†             4459.4      498.22 µg/L         3.435      498.22 ppb          3.435   0.69%
   QC value within limits for Mo 202.031  Recovery = 99.64%
Na 589.592 Radial†      6987.6      9715.9 µg/L        246.29      9715.9 ppb         246.29   2.53%
   QC value within limits for Na 589.592 Radial  Recovery = 97.16%
Ni 231.604†            17056.8      489.32 µg/L         2.854      489.32 ppb          2.854   0.58%
   QC value within limits for Ni 231.604  Recovery = 97.86%
P 214.914†              2215.2      2245.8 µg/L         20.51      2245.8 ppb          20.51   0.91%
   QC value less than the lower limit for P 214.914  Recovery = 89.83%
Pb 220.353†             2388.7      498.74 µg/L         4.551      498.74 ppb          4.551   0.91%
   QC value within limits for Pb 220.353  Recovery = 99.75%
S 181.975 Axial†         308.7      967.69 µg/L        15.028      967.69 ppb         15.028   1.55%
   QC value within limits for S 181.975 Axial  Recovery = 96.77%
Sb 206.836†              733.9      457.06 µg/L         4.495      457.06 ppb          4.495   0.98%
   QC value within limits for Sb 206.836  Recovery = 91.41%
Se 196.026†              384.0         501 µg/L           2.4         501 ppb            2.4   0.47%
   QC value within limits for Se 196.026  Recovery = 100.29%
SiO2†                  28556.1      5169.8 µg/L         15.50      5169.8 ppb          15.50   0.30%
   QC value within limits for SiO2  Recovery = 96.68%
Si 251.611†            84010.8      2413.4 µg/L          5.56      2413.4 ppb           5.56   0.23%
   QC value within limits for Si 251.611  Recovery = 96.54%
Sn 189.927†             1149.0      459.03 µg/L         5.685      459.03 ppb          5.685   1.24%
   QC value within limits for Sn 189.927  Recovery = 91.81%
Sr 421.552†            42687.3      492.87 µg/L        10.568      492.87 ppb         10.568   2.14%
   QC value within limits for Sr 421.552  Recovery = 98.57%
Ti 334.940†           266980.1      492.60 µg/L         1.189      492.60 ppb          1.189   0.24%
   QC value within limits for Ti 334.940  Recovery = 98.52%
Tl 190.801†              446.3      532.10 µg/L        11.900      532.10 ppb         11.900   2.24%
   QC value within limits for Tl 190.801  Recovery = 106.42%
U 367.007†              1913.7      511.16 µg/L        10.580      511.16 ppb         10.580   2.07%
   QC value within limits for U 367.007  Recovery = 102.23%
V 292.402†             69326.0      491.61 µg/L         1.143      491.61 ppb          1.143   0.23%
   QC value within limits for V 292.402  Recovery = 98.32%
Zn 213.857†            39731.4      487.11 µg/L         1.808      487.11 ppb          1.808   0.37%
   QC value within limits for Zn 213.857  Recovery = 97.42%
QC Failed.  Continue with analysis.
```

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 10:01:20**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23374.9	23374.9	98.5	%			10:02:07
1	Al 396.153Radial†	-103.6	2.8	5.8867	µg/L	5.8867	ppb	10:02:07
1	Ca 317.933Radial†	89.0	7.9	5.0013	µg/L	5.0013	ppb	10:02:27
1	Fe 238.204 Radial†	32.9	0.4	1.1467	µg/L	1.1467	ppb	10:02:27
1	K 766.490 Radial†	755.1	47.6	65.196	µg/L	65.196	ppb	10:02:07
1	Mg 279.077 IEC†	1.5	-1.6	-10.136	µg/L	-10.136	ppb	10:02:27
1	Na 589.592 Radial†	-65.6	-18.0	-25.023	µg/L	-25.023	ppb	10:02:07
1	Sr 421.552†	37.4	11.2	0.1288	µg/L	0.1288	ppb	10:02:07
1	Sc 361.383	1330220.8	1330220.8	102.82	%			10:04:05
1	Y 371.029	781702.5	781702.5	102.35	%			10:04:05
1	Ag 328.068†	749.7	53.9	0.3608	µg/L	0.3608	ppb	10:04:07
1	As 188.979†	-7.1	-3.3	-6.1738	µg/L	-6.1738	ppb	10:04:27
1	B 249.677†	423.0	134.1	1.5543	µg/L	1.5543	ppb	10:04:07
1	Ba 233.527†	-87.9	2.2	0.0295	µg/L	0.0295	ppb	10:04:27
1	Be 313.107†	-8949.5	-775.8	-0.3278	µg/L	-0.3278	ppb	10:04:07
1	Cd 226.502†	-116.4	-8.4	-0.1261	µg/L	-0.1261	ppb	10:04:27
1	Co 228.616†	-91.3	12.6	0.3625	µg/L	0.3625	ppb	10:04:27
1	Cr 267.716†	118.2	1.5	0.0280	µg/L	0.0280	ppb	10:04:27
1	Cu 324.752†	4458.9	159.2	1.0744	µg/L	1.0744	ppb	10:04:07
1	Mn 257.610†	201.0	3.3	0.0098	µg/L	0.0098	ppb	10:04:27
1	Mo 202.031†	-1.3	10.4	1.1629	µg/L	1.1629	ppb	10:04:27
1	Ni 231.604†	-67.4	-6.5	-0.1873	µg/L	-0.1873	ppb	10:04:27
1	P 214.914†	-69.9	-3.3	-3.4260	µg/L	-3.4260	ppb	10:04:27
1	Pb 220.353†	102.0	-15.1	-3.1337	µg/L	-3.1337	ppb	10:04:27
1	S 181.975 Axial†	32.7	3.7	11.718	µg/L	11.718	ppb	10:04:27
1	Sb 206.836†	0.8	-3.8	-2.3640	µg/L	-2.3640	ppb	10:04:27
1	Se 196.026†	11.9	-0.3	-0.377	µg/L	-0.377	ppb	10:04:27
1	SiO2†	1970.4	-21.2	-3.8345	µg/L	-3.8345	ppb	10:04:07
1	Si 251.611†	440.5	35.4	1.0049	µg/L	1.0049	ppb	10:04:27
1	Sn 189.927†	-2.4	-3.0	-1.2121	µg/L	-1.2121	ppb	10:04:27
1	Ti 334.940†	1505.1	-85.1	-0.1559	µg/L	-0.1559	ppb	10:04:07
1	Tl 190.801†	-12.2	6.1	7.3797	µg/L	7.3797	ppb	10:04:27
1	U 367.007†	295.0	-5.8	-1.6573	µg/L	-1.6573	ppb	10:04:07
1	V 292.402†	240.7	-68.7	-0.4658	µg/L	-0.4658	ppb	10:04:07
1	Zn 213.857†	576.7	10.7	0.1318	µg/L	0.1318	ppb	10:04:27
2	Sc RADIAL	23041.3	23041.3	97.0	%			10:02:47
2	Al 396.153Radial†	-105.8	-1.0	-2.1674	µg/L	-2.1674	ppb	10:02:47
2	Ca 317.933Radial†	77.1	-3.0	-1.8881	µg/L	-1.8881	ppb	10:03:07
2	Fe 238.204 Radial†	27.4	-4.8	-14.779	µg/L	-14.779	ppb	10:03:07
2	K 766.490 Radial†	797.1	102.1	139.66	µg/L	139.66	ppb	10:02:47
2	Mg 279.077 IEC†	4.5	1.6	10.076	µg/L	10.076	ppb	10:03:07
2	Na 589.592 Radial†	-82.5	-36.4	-50.636	µg/L	-50.636	ppb	10:02:47
2	Sr 421.552†	35.8	10.0	0.1160	µg/L	0.1160	ppb	10:02:47
2	Sc 361.383	1312916.5	1312916.5	101.49	%			10:04:29
2	Y 371.029	771893.9	771893.9	101.07	%			10:04:29
2	Ag 328.068†	737.5	51.5	0.3346	µg/L	0.3346	ppb	10:04:31
2	As 188.979†	-7.9	-4.1	-7.7901	µg/L	-7.7901	ppb	10:04:51
2	B 249.677†	359.2	76.7	0.9054	µg/L	0.9054	ppb	10:04:31
2	Ba 233.527†	-65.0	23.6	0.3242	µg/L	0.3242	ppb	10:04:51
2	Be 313.107†	-8889.7	-831.6	-0.3513	µg/L	-0.3513	ppb	10:04:31
2	Cd 226.502†	-112.8	-6.4	-0.0928	µg/L	-0.0928	ppb	10:04:51
2	Co 228.616†	-94.3	8.5	0.2436	µg/L	0.2436	ppb	10:04:51
2	Cr 267.716†	109.9	-5.1	-0.0985	µg/L	-0.0985	ppb	10:04:51
2	Cu 324.752†	4373.4	132.1	0.8946	µg/L	0.8946	ppb	10:04:31
2	Mn 257.610†	210.9	15.7	0.0442	µg/L	0.0442	ppb	10:04:51
2	Mo 202.031†	-7.2	4.6	0.5148	µg/L	0.5148	ppb	10:04:51
2	Ni 231.604†	-53.4	6.4	0.1823	µg/L	0.1823	ppb	10:04:51
2	P 214.914†	-77.2	-11.4	-11.583	µg/L	-11.583	ppb	10:04:51
2	Pb 220.353†	108.7	-7.1	-1.4850	µg/L	-1.4850	ppb	10:04:51

2	S 181.975 Axial†	30.9	2.4	7.4741	µg/L	7.4741	ppb	10:04:51
2	Sb 206.836†	7.5	2.9	1.7849	µg/L	1.7849	ppb	10:04:51
2	Se 196.026†	9.5	-2.4	-3.18	µg/L	-3.18	ppb	10:04:51
2	SiO2†	2046.1	78.6	14.207	µg/L	14.207	ppb	10:04:31
2	Si 251.611†	453.5	53.9	1.5447	µg/L	1.5447	ppb	10:04:51
2	Sn 189.927†	-3.7	-4.4	-1.7639	µg/L	-1.7639	ppb	10:04:51
2	Ti 334.940†	1696.2	122.5	0.2212	µg/L	0.2212	ppb	10:04:31
2	Tl 190.801†	-17.8	0.4	0.5380	µg/L	0.5380	ppb	10:04:51
2	U 367.007†	330.4	32.8	9.3547	µg/L	9.3547	ppb	10:04:31
2	V 292.402†	213.2	-92.7	-0.6376	µg/L	-0.6376	ppb	10:04:31
2	Zn 213.857†	582.8	24.0	0.2965	µg/L	0.2965	ppb	10:04:51
3	Sc RADIAL	22547.1	22547.1	95.0	%			10:03:27
3	Al 396.153Radial†	-101.9	0.7	1.3869	µg/L	1.3869	ppb	10:03:27
3	Ca 317.933Radial†	83.6	5.6	3.5295	µg/L	3.5295	ppb	10:03:47
3	Fe 238.204 Radial†	27.2	-4.3	-13.475	µg/L	-13.475	ppb	10:03:47
3	K 766.490 Radial†	736.3	56.0	76.679	µg/L	76.679	ppb	10:03:27
3	Mg 279.077 IEC†	8.3	5.6	36.370	µg/L	36.370	ppb	10:03:47
3	Na 589.592 Radial†	-67.2	-22.1	-30.687	µg/L	-30.687	ppb	10:03:27
3	Sr 421.552†	33.3	8.2	0.0943	µg/L	0.0943	ppb	10:03:27
3	Sc 361.383	1322145.2	1322145.2	102.20	%			10:04:53
3	Y 371.029	777329.3	777329.3	101.78	%			10:04:53
3	Ag 328.068†	744.1	52.9	0.3520	µg/L	0.3520	ppb	10:04:55
3	As 188.979†	-3.9	-0.2	-0.4025	µg/L	-0.4025	ppb	10:05:15
3	B 249.677†	306.5	22.7	0.2887	µg/L	0.2887	ppb	10:04:55
3	Ba 233.527†	-83.0	6.5	0.0893	µg/L	0.0893	ppb	10:05:15
3	Be 313.107†	-9061.1	-938.2	-0.3964	µg/L	-0.3964	ppb	10:04:55
3	Cd 226.502†	-119.3	-12.0	-0.1772	µg/L	-0.1772	ppb	10:05:15
3	Co 228.616†	-89.2	14.1	0.4041	µg/L	0.4041	ppb	10:05:15
3	Cr 267.716†	113.2	-2.6	-0.0490	µg/L	-0.0490	ppb	10:05:15
3	Cu 324.752†	4230.3	-38.0	-0.2576	µg/L	-0.2576	ppb	10:04:55
3	Mn 257.610†	208.0	11.4	0.0311	µg/L	0.0311	ppb	10:05:15
3	Mo 202.031†	-8.0	3.8	0.4300	µg/L	0.4300	ppb	10:05:15
3	Ni 231.604†	-89.2	-28.3	-0.8112	µg/L	-0.8112	ppb	10:05:15
3	P 214.914†	-80.5	-14.1	-14.366	µg/L	-14.366	ppb	10:05:15
3	Pb 220.353†	92.0	-24.2	-5.0470	µg/L	-5.0470	ppb	10:05:15
3	S 181.975 Axial†	28.8	0.1	0.3023	µg/L	0.3023	ppb	10:05:15
3	Sb 206.836†	6.7	2.0	1.2730	µg/L	1.2730	ppb	10:05:15
3	Se 196.026†	1.5	-10.4	-13.5	µg/L	-13.5	ppb	10:05:15
3	SiO2†	1996.8	16.3	2.9379	µg/L	2.9379	ppb	10:04:55
3	Si 251.611†	439.4	37.0	1.0578	µg/L	1.0578	ppb	10:05:15
3	Sn 189.927†	1.8	1.1	0.4244	µg/L	0.4244	ppb	10:05:15
3	Ti 334.940†	1598.4	15.1	0.0272	µg/L	0.0272	ppb	10:04:55
3	Tl 190.801†	-14.0	4.3	5.1268	µg/L	5.1268	ppb	10:05:15
3	U 367.007†	303.7	4.4	1.3167	µg/L	1.3167	ppb	10:04:55
3	V 292.402†	291.6	-17.4	-0.1178	µg/L	-0.1178	ppb	10:04:55
3	Zn 213.857†	559.1	-3.2	-0.0337	µg/L	-0.0337	ppb	10:05:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1321760.8	102.17	%	0.669				0.66%
Sc RADIAL	22987.8	96.8	%	1.75				1.81%
Y 371.029	776975.2	101.73	%	0.643				0.63%
Ag 328.068†	52.8	0.3492	µg/L	0.01330	0.3492	ppb	0.01330	3.81%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	0.8	1.7021	µg/L	4.03630	1.7021	ppb	4.03630	237.14%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.5	-4.7888	µg/L	3.88364	-4.7888	ppb	3.88364	81.10%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	77.8	0.9161	µg/L	0.63288	0.9161	ppb	0.63288	69.08%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	10.8	0.1477	µg/L	0.15578	0.1477	ppb	0.15578	105.49%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-848.5	-0.3585	µg/L	0.03485	-0.3585	ppb	0.03485	9.72%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.5	2.2142	µg/L	3.62815	2.2142	ppb	3.62815	163.86%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-8.9	-0.1320	µg/L	0.04248	-0.1320	ppb	0.04248	32.18%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	11.8	0.3367	µg/L	0.08330	0.3367	ppb	0.08330	24.74%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -2.1     -0.0399 µg/L       0.06377     -0.0399 ppb        0.06377 159.98%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               84.5      0.5705 µg/L       0.72276      0.5705 ppb        0.72276 126.70%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -2.9     -9.0358 µg/L       8.84237     -9.0358 ppb        8.84237  97.86%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         68.6      93.844 µg/L       40.0889      93.844 ppb        40.0889  42.72%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            1.9      12.103 µg/L       23.3192      12.103 ppb        23.3192 192.67%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               10.1      0.0284 µg/L       0.01736      0.0284 ppb        0.01736  61.17%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                6.3      0.7026 µg/L       0.40089      0.7026 ppb        0.40089  57.06%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -25.5     -35.449 µg/L       13.4541     -35.449 ppb        13.4541  37.95%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -9.5     -0.2720 µg/L       0.50214     -0.2720 ppb        0.50214 184.58%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -9.6     -9.7919 µg/L       5.68585     -9.7919 ppb        5.68585  58.07%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -15.5     -3.2219 µg/L       1.78261     -3.2219 ppb        1.78261  55.33%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           2.1      6.4982 µg/L       5.77017      6.4982 ppb        5.77017  88.80%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                0.4      0.2313 µg/L       2.26210      0.2313 ppb        2.26210 978.09%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -4.4       -5.70 µg/L         6.929       -5.70 ppb          6.929 121.64%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     24.6      4.4367 µg/L       9.11349      4.4367 ppb        9.11349 205.41%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               42.1      1.2025 µg/L       0.29759      1.2025 ppb        0.29759  24.75%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -2.1     -0.8505 µg/L       1.13806     -0.8505 ppb        1.13806 133.81%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                9.8      0.1130 µg/L       0.01743      0.1130 ppb        0.01743  15.42%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               17.5      0.0309 µg/L       0.18858      0.0309 ppb        0.18858 611.13%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                3.6      4.3482 µg/L       3.48670      4.3482 ppb        3.48670  80.19%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                10.5      3.0047 µg/L       5.69678      3.0047 ppb        5.69678 189.60%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -59.6     -0.4070 µg/L       0.26483     -0.4070 ppb        0.26483  65.06%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               10.5      0.1315 µg/L       0.16514      0.1315 ppb        0.16514 125.56%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Analysis Begun

Start Time: 11/6/2013 10:10:52 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110613.sif
Batch ID:
Results Data Set: 110613
Results Library: C:\pe\optima4\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 301**
Sample ID: 1202969089|1339673|1 **Date Collected: 11/6/2013 10:10:54**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969089|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23760.1	23760.1	100	%			10:11:44
1	Al 396.153Radial†	-109.7	-1.6	-3.2969	µg/L	-3.2969	ppb	10:11:44
1	Ca 317.933Radial†	102.6	20.1	12.676	µg/L	12.676	ppb	10:12:04
1	Fe 238.204 Radial†	31.2	-1.8	-5.6259	µg/L	-5.6259	ppb	10:12:04
1	K 766.490 Radial†	759.1	39.2	53.599	µg/L	53.599	ppb	10:11:44
1	Mg 279.077 IEC†	-0.1	-3.2	-20.942	µg/L	-20.942	ppb	10:12:04
1	Na 589.592 Radial†	-54.7	-6.0	-8.2948	µg/L	-8.2948	ppb	10:11:44
1	Sr 421.552†	35.2	8.3	0.0955	µg/L	0.0955	ppb	10:11:44
1	Sc 361.383	1302113.9	1302113.9	100.65	%			10:13:42
1	Y 371.029	760215.5	760215.5	99.537	%			10:13:42
1	Ag 328.068†	689.9	10.3	0.0758	µg/L	0.0758	ppb	10:13:44
1	As 188.979†	-7.2	-3.5	-6.6201	µg/L	-6.6201	ppb	10:14:04
1	B 249.677†	315.8	36.5	0.4331	µg/L	0.4331	ppb	10:13:44
1	Ba 233.527†	-60.8	27.3	0.3766	µg/L	0.3766	ppb	10:14:04
1	Be 313.107†	-9511.7	-1522.3	-0.6431	µg/L	-0.6431	ppb	10:13:44
1	Cd 226.502†	-126.0	-20.4	-0.2989	µg/L	-0.2989	ppb	10:14:04
1	Co 228.616†	-79.6	22.3	0.6378	µg/L	0.6378	ppb	10:14:04
1	Cr 267.716†	91.8	-22.2	-0.3948	µg/L	-0.3948	ppb	10:14:04
1	Cu 324.752†	4407.5	201.8	1.3584	µg/L	1.3584	ppb	10:13:44
1	Mn 257.610†	216.5	22.9	0.0665	µg/L	0.0665	ppb	10:14:04
1	Mo 202.031†	-10.1	1.7	0.1877	µg/L	0.1877	ppb	10:14:04
1	Ni 231.604†	211.9	269.6	7.7332	µg/L	7.7332	ppb	10:14:04
1	P 214.914†	-72.0	-6.9	-7.0445	µg/L	-7.0445	ppb	10:14:04
1	Pb 220.353†	98.6	-16.3	-3.3902	µg/L	-3.3902	ppb	10:14:04
1	S 181.975 Axial†	29.7	1.4	4.5082	µg/L	4.5082	ppb	10:14:04
1	Sb 206.836†	-0.2	-4.7	-2.9267	µg/L	-2.9267	ppb	10:14:04
1	Se 196.026†	11.7	-0.2	-0.204	µg/L	-0.204	ppb	10:14:04
1	SiO2†	2098.4	147.2	26.599	µg/L	26.599	ppb	10:13:44
1	Si 251.611†	452.5	56.6	1.6283	µg/L	1.6283	ppb	10:13:44
1	Sn 189.927†	0.5	-0.3	-0.1116	µg/L	-0.1116	ppb	10:14:04
1	Ti 334.940†	1605.9	46.6	0.0909	µg/L	0.0909	ppb	10:13:44
1	Tl 190.801†	-23.3	-5.2	-6.2574	µg/L	-6.2574	ppb	10:14:04
1	U 367.007†	267.7	-26.8	-7.5545	µg/L	-7.5545	ppb	10:13:44
1	V 292.402†	336.4	31.4	0.2154	µg/L	0.2154	ppb	10:13:44
1	Zn 213.857†	599.8	45.7	0.5169	µg/L	0.5169	ppb	10:14:04
2	Sc RADIAL	23552.6	23552.6	99.2	%			10:12:24
2	Al 396.153Radial†	-104.1	3.1	6.4740	µg/L	6.4740	ppb	10:12:24
2	Ca 317.933Radial†	99.9	18.3	11.539	µg/L	11.539	ppb	10:12:44
2	Fe 238.204 Radial†	25.8	-7.0	-21.679	µg/L	-21.679	ppb	10:12:44
2	K 766.490 Radial†	713.6	0.1	0.0866	µg/L	0.0866	ppb	10:12:24
2	Mg 279.077 IEC†	4.5	1.4	8.9431	µg/L	8.9431	ppb	10:12:44
2	Na 589.592 Radial†	-57.3	-9.1	-12.676	µg/L	-12.676	ppb	10:12:24
2	Sr 421.552†	42.1	15.6	0.1801	µg/L	0.1801	ppb	10:12:24
2	Sc 361.383	1253374.6	1253374.6	96.883	%			10:14:06
2	Y 371.029	731348.6	731348.6	95.757	%			10:14:06
2	Ag 328.068†	853.9	206.2	1.3751	µg/L	1.3751	ppb	10:14:08
2	As 188.979†	-4.7	-1.2	-2.3113	µg/L	-2.3113	ppb	10:14:28

2	B 249.677†	389.3	124.6	1.5551	µg/L	1.5551	ppb	10:14:08
2	Ba 233.527†	-66.3	19.2	0.2657	µg/L	0.2657	ppb	10:14:28
2	Be 313.107†	-9243.7	-1613.1	-0.6815	µg/L	-0.6815	ppb	10:14:08
2	Cd 226.502†	-120.4	-19.5	-0.2833	µg/L	-0.2833	ppb	10:14:28
2	Co 228.616†	-77.1	21.8	0.6246	µg/L	0.6246	ppb	10:14:28
2	Cr 267.716†	117.2	7.5	0.1315	µg/L	0.1315	ppb	10:14:28
2	Cu 324.752†	4282.8	243.3	1.6416	µg/L	1.6416	ppb	10:14:08
2	Mn 257.610†	206.3	20.7	0.0586	µg/L	0.0586	ppb	10:14:28
2	Mo 202.031†	5.6	17.4	1.9448	µg/L	1.9448	ppb	10:14:28
2	Ni 231.604†	219.8	285.9	8.2012	µg/L	8.2012	ppb	10:14:28
2	P 214.914†	-86.8	-24.9	-25.416	µg/L	-25.416	ppb	10:14:28
2	Pb 220.353†	89.1	-22.2	-4.6307	µg/L	-4.6307	ppb	10:14:28
2	S 181.975 Axial†	26.1	-1.1	-3.5249	µg/L	-3.5249	ppb	10:14:28
2	Sb 206.836†	-3.2	-7.9	-4.8834	µg/L	-4.8834	ppb	10:14:28
2	Se 196.026†	4.9	-6.8	-8.80	µg/L	-8.80	ppb	10:14:28
2	SiO2†	2081.9	211.3	38.182	µg/L	38.182	ppb	10:14:08
2	Si 251.611†	516.6	140.3	4.0120	µg/L	4.0120	ppb	10:14:08
2	Sn 189.927†	-1.6	-2.4	-0.9436	µg/L	-0.9436	ppb	10:14:28
2	Ti 334.940†	1737.1	244.1	0.4488	µg/L	0.4488	ppb	10:14:08
2	Tl 190.801†	-13.7	3.9	4.6314	µg/L	4.6314	ppb	10:14:28
2	U 367.007†	298.6	15.5	4.4888	µg/L	4.4888	ppb	10:14:08
2	V 292.402†	291.9	-1.5	0.0125	µg/L	0.0125	ppb	10:14:08
2	Zn 213.857†	636.8	107.1	1.2739	µg/L	1.2739	ppb	10:14:28
3	Sc RADIAL	23481.5	23481.5	98.9	%			10:13:04
3	Al 396.153Radial†	-110.7	-4.0	-8.3449	µg/L	-8.3449	ppb	10:13:04
3	Ca 317.933Radial†	101.7	20.4	12.867	µg/L	12.867	ppb	10:13:24
3	Fe 238.204 Radial†	30.0	-2.7	-8.2779	µg/L	-8.2779	ppb	10:13:24
3	K 766.490 Radial†	725.6	14.4	19.672	µg/L	19.672	ppb	10:13:04
3	Mg 279.077 IEC†	-3.5	-6.7	-43.107	µg/L	-43.107	ppb	10:13:24
3	Na 589.592 Radial†	-42.0	6.2	8.5544	µg/L	8.5544	ppb	10:13:04
3	Sr 421.552†	44.4	18.0	0.2079	µg/L	0.2079	ppb	10:13:04
3	Sc 361.383	1317075.5	1317075.5	101.81	%			10:14:30
3	Y 371.029	768319.6	768319.6	100.60	%			10:14:30
3	Ag 328.068†	806.9	117.3	0.7954	µg/L	0.7954	ppb	10:14:32
3	As 188.979†	-8.2	-4.4	-8.2020	µg/L	-8.2020	ppb	10:14:52
3	B 249.677†	290.8	8.4	0.1244	µg/L	0.1244	ppb	10:14:32
3	Ba 233.527†	-70.6	18.3	0.2529	µg/L	0.2529	ppb	10:14:52
3	Be 313.107†	-9462.2	-1366.3	-0.5773	µg/L	-0.5773	ppb	10:14:32
3	Cd 226.502†	-110.8	-4.0	-0.0540	µg/L	-0.0540	ppb	10:14:52
3	Co 228.616†	-86.0	16.9	0.4853	µg/L	0.4853	ppb	10:14:52
3	Cr 267.716†	109.8	-5.6	-0.0934	µg/L	-0.0934	ppb	10:14:52
3	Cu 324.752†	4469.5	213.0	1.4311	µg/L	1.4311	ppb	10:14:32
3	Mn 257.610†	207.3	11.5	0.0342	µg/L	0.0342	ppb	10:14:52
3	Mo 202.031†	-0.1	11.6	1.2946	µg/L	1.2946	ppb	10:14:52
3	Ni 231.604†	217.0	272.2	7.8086	µg/L	7.8086	ppb	10:14:52
3	P 214.914†	-79.3	-13.3	-13.539	µg/L	-13.539	ppb	10:14:52
3	Pb 220.353†	96.5	-19.5	-4.0434	µg/L	-4.0434	ppb	10:14:52
3	S 181.975 Axial†	30.5	1.9	5.9993	µg/L	5.9993	ppb	10:14:52
3	Sb 206.836†	-0.5	-5.0	-3.1259	µg/L	-3.1259	ppb	10:14:52
3	Se 196.026†	7.4	-4.6	-6.00	µg/L	-6.00	ppb	10:14:52
3	SiO2†	2073.6	99.2	17.932	µg/L	17.932	ppb	10:14:32
3	Si 251.611†	502.7	100.9	2.8864	µg/L	2.8864	ppb	10:14:32
3	Sn 189.927†	-2.7	-3.4	-1.3469	µg/L	-1.3469	ppb	10:14:52
3	Ti 334.940†	1653.6	75.3	0.1459	µg/L	0.1459	ppb	10:14:32
3	Tl 190.801†	-17.7	0.6	0.7634	µg/L	0.7634	ppb	10:14:52
3	U 367.007†	257.1	-40.2	-11.323	µg/L	-11.323	ppb	10:14:32
3	V 292.402†	332.1	23.5	0.1715	µg/L	0.1715	ppb	10:14:32
3	Zn 213.857†	605.3	44.3	0.4998	µg/L	0.4998	ppb	10:14:52

Mean Data: 1202969089|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1290854.7	99.780	%	2.5747				2.58%
Sc RADIAL	23598.1	99.4	%	0.61				0.61%
Y 371.029	753294.5	98.631	%	2.5444				2.58%
Ag 328.068†	111.2	0.7488	µg/L	0.65087	0.7488	ppb	0.65087	86.93%
Al 396.153Radial†	-0.8	-1.7226	µg/L	7.53384	-1.7226	ppb	7.53384	437.35%
As 188.979†	-3.0	-5.7111	µg/L	3.04873	-5.7111	ppb	3.04873	53.38%
B 249.677†	56.5	0.7042	µg/L	0.75288	0.7042	ppb	0.75288	106.91%
Ba 233.527†	21.6	0.2984	µg/L	0.06805	0.2984	ppb	0.06805	22.81%

Be 313.107†	-1500.6	-0.6340	µg/L	0.05273	-0.6340	ppb	0.05273	8.32%
Ca 317.933Radial†	19.6	12.361	µg/L	0.7181	12.361	ppb	0.7181	5.81%
Cd 226.502†	-14.6	-0.2121	µg/L	0.13712	-0.2121	ppb	0.13712	64.66%
Co 228.616†	20.4	0.5826	µg/L	0.08449	0.5826	ppb	0.08449	14.50%
Cr 267.716†	-6.8	-0.1189	µg/L	0.26405	-0.1189	ppb	0.26405	222.09%
Cu 324.752†	219.3	1.4770	µg/L	0.14709	1.4770	ppb	0.14709	9.96%
Fe 238.204 Radial†	-3.8	-11.861	µg/L	8.6056	-11.861	ppb	8.6056	72.55%
K 766.490 Radial†	17.9	24.452	µg/L	27.0745	24.452	ppb	27.0745	110.72%
Mg 279.077 IEC†	-2.9	-18.369	µg/L	26.1203	-18.369	ppb	26.1203	142.20%
Mn 257.610†	18.4	0.0531	µg/L	0.01684	0.0531	ppb	0.01684	31.71%
Mo 202.031†	10.2	1.1424	µg/L	0.88836	1.1424	ppb	0.88836	77.77%
Na 589.592 Radial†	-3.0	-4.1388	µg/L	11.20875	-4.1388	ppb	11.20875	270.82%
Ni 231.604†	275.9	7.9143	µg/L	0.25126	7.9143	ppb	0.25126	3.17%
P 214.914†	-15.0	-15.333	µg/L	9.3165	-15.333	ppb	9.3165	60.76%
Pb 220.353†	-19.3	-4.0214	µg/L	0.62058	-4.0214	ppb	0.62058	15.43%
S 181.975 Axial†	0.7	2.3275	µg/L	5.12289	2.3275	ppb	5.12289	220.10%
Sb 206.836†	-5.9	-3.6453	µg/L	1.07677	-3.6453	ppb	1.07677	29.54%
Se 196.026†	-3.8	-5.00	µg/L	4.384	-5.00	ppb	4.384	87.67%
SiO2†	152.6	27.571	µg/L	10.1600	27.571	ppb	10.1600	36.85%
Si 251.611†	99.3	2.8422	µg/L	1.19249	2.8422	ppb	1.19249	41.96%
Sn 189.927†	-2.0	-0.8007	µg/L	0.62991	-0.8007	ppb	0.62991	78.67%
Sr 421.552†	14.0	0.1612	µg/L	0.05851	0.1612	ppb	0.05851	36.31%
Ti 334.940†	122.0	0.2285	µg/L	0.19273	0.2285	ppb	0.19273	84.33%
Tl 190.801†	-0.2	-0.2876	µg/L	5.51994	-0.2876	ppb	5.51994	>999.9%
U 367.007†	-17.2	-4.7961	µg/L	8.25873	-4.7961	ppb	8.25873	172.20%
V 292.402†	17.8	0.1331	µg/L	0.10674	0.1331	ppb	0.10674	80.17%
Zn 213.857†	65.7	0.7636	µg/L	0.44209	0.7636	ppb	0.44209	57.90%

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Sequence No.: 2 **Autosampler Location: 302**
Sample ID: 1202969090|1339673|1 **Date Collected: 11/6/2013 10:15:01**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969090|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23200.7	23200.7	97.7	%			10:15:31
1	Al 396.153Radial†	2295.1	2456.7	5153.0	µg/L	5153.0	ppb	10:15:51
1	Ca 317.933Radial†	8423.1	8537.5	5380.4	µg/L	5380.4	ppb	10:15:51
1	Fe 238.204 Radial†	1758.3	1766.3	5459.9	µg/L	5459.9	ppb	10:15:51
1	K 766.490 Radial†	4562.6	3949.8	5416.1	µg/L	5416.1	ppb	10:15:31
1	Mg 279.077 IEC†	850.7	867.5	5590.4	µg/L	5590.4	ppb	10:15:51
1	Na 589.592 Radial†	3565.4	3697.3	5140.9	µg/L	5140.9	ppb	10:15:31
1	Sr 421.552†	44535.3	45549.1	525.91	µg/L	525.91	ppb	10:15:31
1	Sc 361.383	1334940.8	1334940.8	103.19	%			10:16:53
1	Y 371.029	768803.8	768803.8	100.66	%			10:16:53
1	Ag 328.068†	81158.4	77976.3	522.22	µg/L	522.22	ppb	10:16:55
1	As 188.979†	300.2	294.5	560.35	µg/L	560.35	ppb	10:17:15
1	B 249.677†	45360.0	43681.6	494.98	µg/L	494.98	ppb	10:16:55
1	Ba 233.527†	39160.1	38038.1	525.91	µg/L	525.91	ppb	10:16:55
1	Be 313.107†	1266466.4	1235273.4	521.89	µg/L	521.89	ppb	10:16:53
1	Cd 226.502†	35722.8	34724.1	517.90	µg/L	517.90	ppb	10:16:55
1	Co 228.616†	18946.1	18462.3	527.04	µg/L	527.04	ppb	10:16:55
1	Cr 267.716†	27438.0	26477.1	476.38	µg/L	476.38	ppb	10:16:55
1	Cu 324.752†	80250.7	73594.5	498.23	µg/L	498.23	ppb	10:16:55
1	Mn 257.610†	176349.7	170710.1	490.84	µg/L	490.84	ppb	10:16:55
1	Mo 202.031†	4341.0	4218.6	471.36	µg/L	471.36	ppb	10:17:15
1	Ni 231.604†	17277.3	16802.6	482.02	µg/L	482.02	ppb	10:16:55
1	P 214.914†	390.9	443.5	437.50	µg/L	437.50	ppb	10:17:15
1	Pb 220.353†	2747.4	2548.3	531.92	µg/L	531.92	ppb	10:17:15
1	S 181.975 Axial†	1522.1	1447.0	4552.3	µg/L	4552.3	ppb	10:17:15
1	Sb 206.836†	715.1	688.5	428.64	µg/L	428.64	ppb	10:17:15
1	Se 196.026†	366.6	343.4	449	µg/L	449	ppb	10:17:15
1	SiO2†	58399.4	54657.9	9886.5	µg/L	9886.5	ppb	10:16:55
1	Si 251.611†	165417.4	159914.7	4599.9	µg/L	4599.9	ppb	10:16:55
1	Sn 189.927†	1143.9	1107.8	442.65	µg/L	442.65	ppb	10:17:15
1	Ti 334.940†	271661.3	261720.9	482.92	µg/L	482.92	ppb	10:16:55
1	Tl 190.801†	435.4	439.9	524.07	µg/L	524.07	ppb	10:17:15
1	U 367.007†	2243.8	1881.8	500.19	µg/L	500.19	ppb	10:16:55
1	V 292.402†	70453.8	67974.7	481.89	µg/L	481.89	ppb	10:16:55
1	Zn 213.857†	40145.3	38355.0	470.09	µg/L	470.09	ppb	10:16:55
2	Sc RADIAL	23804.9	23804.9	100	%			10:15:53
2	Al 396.153Radial†	2249.5	2351.7	4932.4	µg/L	4932.4	ppb	10:16:13
2	Ca 317.933Radial†	8379.7	8275.4	5215.2	µg/L	5215.2	ppb	10:16:13
2	Fe 238.204 Radial†	1743.8	1706.3	5273.8	µg/L	5273.8	ppb	10:16:13
2	K 766.490 Radial†	4454.4	3723.4	5106.2	µg/L	5106.2	ppb	10:15:53
2	Mg 279.077 IEC†	833.7	828.4	5338.8	µg/L	5338.8	ppb	10:16:13
2	Na 589.592 Radial†	3617.0	3656.2	5083.7	µg/L	5083.7	ppb	10:15:53
2	Sr 421.552†	45970.4	45823.6	529.08	µg/L	529.08	ppb	10:15:53
2	Sc 361.383	1334636.6	1334636.6	103.16	%			10:17:17
2	Y 371.029	768844.5	768844.5	100.67	%			10:17:17
2	Ag 328.068†	80265.3	77128.4	516.56	µg/L	516.56	ppb	10:17:19
2	As 188.979†	308.5	302.7	575.55	µg/L	575.55	ppb	10:17:39
2	B 249.677†	45006.9	43349.3	491.87	µg/L	491.87	ppb	10:17:19
2	Ba 233.527†	38750.6	37649.8	520.55	µg/L	520.55	ppb	10:17:19
2	Be 313.107†	1267774.2	1236820.9	522.54	µg/L	522.54	ppb	10:17:17
2	Cd 226.502†	35239.7	34263.7	511.05	µg/L	511.05	ppb	10:17:19
2	Co 228.616†	18757.2	18283.4	521.95	µg/L	521.95	ppb	10:17:19
2	Cr 267.716†	27154.8	26208.6	471.54	µg/L	471.54	ppb	10:17:19
2	Cu 324.752†	79096.5	72493.4	490.76	µg/L	490.76	ppb	10:17:19
2	Mn 257.610†	174204.5	168669.7	484.98	µg/L	484.98	ppb	10:17:19
2	Mo 202.031†	4370.6	4248.3	474.66	µg/L	474.66	ppb	10:17:39
2	Ni 231.604†	17015.3	16552.5	474.85	µg/L	474.85	ppb	10:17:19
2	P 214.914†	375.4	428.6	422.56	µg/L	422.56	ppb	10:17:39
2	Pb 220.353†	2766.6	2567.5	535.92	µg/L	535.92	ppb	10:17:39

2	S 181.975 Axial†	1511.7	1437.2	4521.4 µg/L	4521.4 ppb	10:17:39
2	Sb 206.836†	721.5	694.9	432.66 µg/L	432.66 ppb	10:17:39
2	Se 196.026†	365.3	342.3	447 µg/L	447 ppb	10:17:39
2	SiO2†	57712.2	54004.7	9768.3 µg/L	9768.3 ppb	10:17:19
2	Si 251.611†	163274.7	157874.3	4541.0 µg/L	4541.0 ppb	10:17:19
2	Sn 189.927†	1146.5	1110.6	443.75 µg/L	443.75 ppb	10:17:39
2	Ti 334.940†	268423.1	258642.0	477.23 µg/L	477.23 ppb	10:17:19
2	Tl 190.801†	424.1	429.1	511.08 µg/L	511.08 ppb	10:17:39
2	U 367.007†	2219.8	1859.0	494.77 µg/L	494.77 ppb	10:17:19
2	V 292.402†	69704.2	67263.7	476.93 µg/L	476.93 ppb	10:17:19
2	Zn 213.857†	39513.2	37751.2	462.70 µg/L	462.70 ppb	10:17:19
3	Sc RADIAL	23597.7	23597.7	99.4 %		10:16:15
3	Al 396.153Radial†	2225.6	2347.2	4923.2 µg/L	4923.2 ppb	10:16:35
3	Ca 317.933Radial†	8357.9	8326.9	5247.6 µg/L	5247.6 ppb	10:16:35
3	Fe 238.204 Radial†	1748.6	1726.3	5336.0 µg/L	5336.0 ppb	10:16:35
3	K 766.490 Radial†	4516.9	3825.3	5245.7 µg/L	5245.7 ppb	10:16:15
3	Mg 279.077 IEC†	833.8	835.8	5386.1 µg/L	5386.1 ppb	10:16:35
3	Na 589.592 Radial†	3508.3	3578.5	4975.6 µg/L	4975.6 ppb	10:16:15
3	Sr 421.552†	45521.1	45774.2	528.51 µg/L	528.51 ppb	10:16:15
3	Sc 361.383	1324228.0	1324228.0	102.36 %		10:17:42
3	Y 371.029	762791.3	762791.3	99.874 %		10:17:42
3	Ag 328.068†	79837.7	77322.2	517.85 µg/L	517.85 ppb	10:17:44
3	As 188.979†	307.2	303.8	577.64 µg/L	577.64 ppb	10:18:04
3	B 249.677†	44697.0	43389.5	492.05 µg/L	492.05 ppb	10:17:44
3	Ba 233.527†	38369.9	37573.1	519.49 µg/L	519.49 ppb	10:17:44
3	Be 313.107†	1258627.0	1237543.9	522.85 µg/L	522.85 ppb	10:17:42
3	Cd 226.502†	34929.1	34228.8	510.52 µg/L	510.52 ppb	10:17:44
3	Co 228.616†	18626.8	18298.9	522.39 µg/L	522.39 ppb	10:17:44
3	Cr 267.716†	27009.2	26273.2	472.71 µg/L	472.71 ppb	10:17:44
3	Cu 324.752†	78720.2	72728.5	492.35 µg/L	492.35 ppb	10:17:44
3	Mn 257.610†	172900.4	168722.9	485.13 µg/L	485.13 ppb	10:17:44
3	Mo 202.031†	4369.6	4280.6	478.27 µg/L	478.27 ppb	10:18:04
3	Ni 231.604†	16953.5	16621.8	476.83 µg/L	476.83 ppb	10:17:44
3	P 214.914†	394.0	449.6	443.90 µg/L	443.90 ppb	10:18:04
3	Pb 220.353†	2742.6	2565.2	535.44 µg/L	535.44 ppb	10:18:04
3	S 181.975 Axial†	1520.7	1457.6	4585.5 µg/L	4585.5 ppb	10:18:04
3	Sb 206.836†	726.3	705.1	439.03 µg/L	439.03 ppb	10:18:04
3	Se 196.026†	365.7	345.4	451 µg/L	451 ppb	10:18:04
3	SiO2†	57396.0	54135.5	9792.0 µg/L	9792.0 ppb	10:17:44
3	Si 251.611†	162265.3	158132.2	4548.4 µg/L	4548.4 ppb	10:17:44
3	Sn 189.927†	1135.3	1108.4	442.84 µg/L	442.84 ppb	10:18:04
3	Ti 334.940†	266697.2	259001.0	477.89 µg/L	477.89 ppb	10:17:44
3	Tl 190.801†	434.8	442.7	527.49 µg/L	527.49 ppb	10:18:04
3	U 367.007†	2221.9	1878.0	499.82 µg/L	499.82 ppb	10:17:44
3	V 292.402†	69354.7	67453.3	478.31 µg/L	478.31 ppb	10:17:44
3	Zn 213.857†	39301.4	37845.2	463.84 µg/L	463.84 ppb	10:17:44

Mean Data: 1202969090|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1331268.5	102.90	%	0.471				0.46%
Sc RADIAL	23534.4	99.1	%	1.29				1.30%
Y 371.029	766813.2	100.40	%	0.456				0.45%
Ag 328.068†	77475.6	518.88	µg/L	2.970	518.88	ppb	2.970	0.57%
Al 396.153Radial†	2385.2	5002.9	µg/L	130.12	5002.9	ppb	130.12	2.60%
As 188.979†	300.3	571.18	µg/L	9.439	571.18	ppb	9.439	1.65%
B 249.677†	43473.5	492.97	µg/L	1.747	492.97	ppb	1.747	0.35%
Ba 233.527†	37753.7	521.98	µg/L	3.444	521.98	ppb	3.444	0.66%
Be 313.107†	1236546.1	522.42	µg/L	0.490	522.42	ppb	0.490	0.09%
Ca 317.933Radial†	8379.9	5281.1	µg/L	87.52	5281.1	ppb	87.52	1.66%
Cd 226.502†	34405.5	513.15	µg/L	4.117	513.15	ppb	4.117	0.80%
Co 228.616†	18348.2	523.80	µg/L	2.822	523.80	ppb	2.822	0.54%
Cr 267.716†	26319.6	473.54	µg/L	2.522	473.54	ppb	2.522	0.53%
Cu 324.752†	72938.8	493.78	µg/L	3.934	493.78	ppb	3.934	0.80%
Fe 238.204 Radial†	1733.0	5356.6	µg/L	94.72	5356.6	ppb	94.72	1.77%
K 766.490 Radial†	3832.9	5256.0	µg/L	155.20	5256.0	ppb	155.20	2.95%
Mg 279.077 IEC†	843.9	5438.5	µg/L	133.72	5438.5	ppb	133.72	2.46%
Mn 257.610†	169367.6	486.99	µg/L	3.342	486.99	ppb	3.342	0.69%
Mo 202.031†	4249.1	474.76	µg/L	3.456	474.76	ppb	3.456	0.73%
Na 589.592 Radial†	3644.0	5066.7	µg/L	83.91	5066.7	ppb	83.91	1.66%

Ni 231.604†	16659.0	477.90	µg/L	3.704	477.90	ppb	3.704	0.78%
P 214.914†	440.6	434.65	µg/L	10.951	434.65	ppb	10.951	2.52%
Pb 220.353†	2560.3	534.43	µg/L	2.184	534.43	ppb	2.184	0.41%
S 181.975 Axial†	1447.3	4553.1	µg/L	32.07	4553.1	ppb	32.07	0.70%
Sb 206.836†	696.1	433.45	µg/L	5.237	433.45	ppb	5.237	1.21%
Se 196.026†	343.7	449	µg/L	2.1	449	ppb	2.1	0.47%
SiO2†	54266.0	9815.6	µg/L	62.51	9815.6	ppb	62.51	0.64%
Si 251.611†	158640.4	4563.1	µg/L	32.05	4563.1	ppb	32.05	0.70%
Sn 189.927†	1108.9	443.08	µg/L	0.585	443.08	ppb	0.585	0.13%
Sr 421.552†	45715.7	527.83	µg/L	1.691	527.83	ppb	1.691	0.32%
Ti 334.940†	259788.0	479.35	µg/L	3.109	479.35	ppb	3.109	0.65%
Tl 190.801†	437.3	520.88	µg/L	8.657	520.88	ppb	8.657	1.66%
U 367.007†	1872.9	498.26	µg/L	3.026	498.26	ppb	3.026	0.61%
V 292.402†	67563.9	479.05	µg/L	2.559	479.05	ppb	2.559	0.53%
Zn 213.857†	37983.8	465.55	µg/L	3.976	465.55	ppb	3.976	0.85%

Sequence No.: 3
Sample ID: 335304001|1339673|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 303
Date Collected: 11/6/2013 10:18:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304001|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23325.2	23325.2	98.2	%			10:19:02
1	Al 396.153Radial†	-125.2	-19.4	19.139	µg/L	19.139	ppb	10:19:02
1	Ca 317.933Radial†	187005.2	190271.0	119920	µg/L	119920	ppb	10:18:42
1	Fe 238.204 Radial†	2684.6	2699.7	8369.7	µg/L	8369.7	ppb	10:19:02
1	K 766.490 Radial†	11709.4	11199.7	15283	µg/L	15283	ppb	10:18:42
1	Mg 279.077 IEC†	10018.9	10195.2	65694	µg/L	65694	ppb	10:19:02
1	Na 589.592 Radial†	80072.6	81555.0	113400	µg/L	113400	ppb	10:18:42
1	Sr 421.552†	71442.3	72694.7	838.46	µg/L	838.46	ppb	10:18:42
1	Sc 361.383	1288526.7	1288526.7	99.600	%			10:20:04
1	Y 371.029	736351.3	736351.3	96.412	%			10:20:04
1	Ag 328.068†	1201.1	530.7	0.3063	µg/L	0.3063	ppb	10:20:04
1	As 188.979†	3.6	7.2	14.506	µg/L	14.506	ppb	10:20:24
1	B 249.677†	54915.6	54859.0	610.11	µg/L	610.11	ppb	10:20:04
1	Ba 233.527†	41862.1	42118.1	580.86	µg/L	580.86	ppb	10:20:04
1	Be 313.107†	-9322.2	-1431.6	-0.6048	µg/L	-0.6048	ppb	10:20:04
1	Cd 226.502†	-45.1	59.4	-0.1878	µg/L	-0.1878	ppb	10:20:24
1	Co 228.616†	29.4	131.0	3.9797	µg/L	3.9797	ppb	10:20:24
1	Cr 267.716†	886.6	776.7	13.510	µg/L	13.510	ppb	10:20:24
1	Cu 324.752†	3951.0	-210.4	0.1248	µg/L	0.1248	ppb	10:20:04
1	Mn 257.610†	57957.8	57998.6	164.80	µg/L	164.80	ppb	10:20:04
1	Mo 202.031†	-57.9	-46.4	-2.2739	µg/L	-2.2739	ppb	10:20:24
1	Ni 231.604†	1028.4	1091.5	31.271	µg/L	31.271	ppb	10:20:24
1	P 214.914†	19.2	84.0	74.614	µg/L	74.614	ppb	10:20:24
1	Pb 220.353†	107.1	-6.8	-1.7691	µg/L	-1.7691	ppb	10:20:24
1	S 181.975 Axial†	3534.5	3520.6	11070	µg/L	11070	ppb	10:20:24
1	Sb 206.836†	-3.8	-8.4	-5.5397	µg/L	-5.5397	ppb	10:20:24
1	Se 196.026†	16.5	4.7	10.6	µg/L	10.6	ppb	10:20:24
1	SiO2†	155176.0	153862.0	27804	µg/L	27804	ppb	10:20:04
1	Si 251.611†	448698.3	450108.5	12964	µg/L	12964	ppb	10:20:04
1	Sn 189.927†	-48.7	-49.6	-7.6806	µg/L	-7.6806	ppb	10:20:24
1	Ti 334.940†	-1462.1	-3016.9	-0.1115	µg/L	-0.1115	ppb	10:20:04
1	Tl 190.801†	-17.5	0.4	-5.6838	µg/L	-5.6838	ppb	10:20:24
1	U 367.007†	606.4	316.1	17.126	µg/L	17.126	ppb	10:20:04
1	V 292.402†	1531.1	1234.5	9.8866	µg/L	9.8866	ppb	10:20:04
1	Zn 213.857†	1592.8	1049.0	10.257	µg/L	10.257	ppb	10:20:24
2	Sc RADIAL	23143.0	23143.0	97.5	%			10:19:24
2	Al 396.153Radial†	-128.7	-24.1	9.2362	µg/L	9.2362	ppb	10:19:24
2	Ca 317.933Radial†	184977.0	189688.9	119560	µg/L	119560	ppb	10:19:04
2	Fe 238.204 Radial†	2666.1	2702.2	8377.7	µg/L	8377.7	ppb	10:19:24
2	K 766.490 Radial†	11694.0	11277.8	15390	µg/L	15390	ppb	10:19:04
2	Mg 279.077 IEC†	9936.5	10190.9	65666	µg/L	65666	ppb	10:19:24
2	Na 589.592 Radial†	79446.8	81554.6	113400	µg/L	113400	ppb	10:19:04
2	Sr 421.552†	71034.3	72848.6	840.24	µg/L	840.24	ppb	10:19:04
2	Sc 361.383	1283961.7	1283961.7	99.247	%			10:20:26
2	Y 371.029	733563.8	733563.8	96.047	%			10:20:26
2	Ag 328.068†	1146.6	480.1	-0.0018	µg/L	-0.0018	ppb	10:20:26
2	As 188.979†	0.9	4.6	9.5496	µg/L	9.5496	ppb	10:20:46
2	B 249.677†	54777.9	54916.4	610.71	µg/L	610.71	ppb	10:20:26
2	Ba 233.527†	41793.3	42198.1	581.97	µg/L	581.97	ppb	10:20:26
2	Be 313.107†	-9196.2	-1337.9	-0.5653	µg/L	-0.5653	ppb	10:20:26
2	Cd 226.502†	-66.9	37.4	-0.5180	µg/L	-0.5180	ppb	10:20:46
2	Co 228.616†	23.1	124.7	3.8011	µg/L	3.8011	ppb	10:20:46
2	Cr 267.716†	884.0	777.3	13.531	µg/L	13.531	ppb	10:20:46
2	Cu 324.752†	3948.6	-198.7	0.1961	µg/L	0.1961	ppb	10:20:26
2	Mn 257.610†	57796.2	58042.6	164.93	µg/L	164.93	ppb	10:20:26
2	Mo 202.031†	-59.4	-48.2	-2.4697	µg/L	-2.4697	ppb	10:20:46
2	Ni 231.604†	1029.4	1096.2	31.404	µg/L	31.404	ppb	10:20:46
2	P 214.914†	33.6	98.6	89.487	µg/L	89.487	ppb	10:20:46
2	Pb 220.353†	94.9	-18.6	-4.2257	µg/L	-4.2257	ppb	10:20:46

2	S 181.975 Axial†	3531.2	3529.9	11099	µg/L	11099	ppb	10:20:46
2	Sb 206.836†	-2.8	-7.4	-4.9208	µg/L	-4.9208	ppb	10:20:46
2	Se 196.026†	18.0	6.3	12.7	µg/L	12.7	ppb	10:20:46
2	SiO2†	154875.1	154112.8	27850	µg/L	27850	ppb	10:20:26
2	Si 251.611†	447156.3	450156.5	12966	µg/L	12966	ppb	10:20:26
2	Sn 189.927†	-42.1	-43.1	-5.1168	µg/L	-5.1168	ppb	10:20:46
2	Ti 334.940†	-1356.5	-2915.7	0.0659	µg/L	0.0659	ppb	10:20:26
2	Tl 190.801†	-13.0	4.9	-0.3001	µg/L	-0.3001	ppb	10:20:46
2	U 367.007†	543.1	254.5	-0.2604	µg/L	-0.2604	ppb	10:20:26
2	V 292.402†	1779.9	1490.7	11.663	µg/L	11.663	ppb	10:20:26
2	Zn 213.857†	1587.2	1049.1	10.257	µg/L	10.257	ppb	10:20:46
3	Sc RADIAL	23106.0	23106.0	97.3	%			10:19:46
3	Al 396.153Radial†	-108.3	-3.3	53.780	µg/L	53.780	ppb	10:19:46
3	Ca 317.933Radial†	187441.4	192524.7	121340	µg/L	121340	ppb	10:19:26
3	Fe 238.204 Radial†	2663.5	2703.9	8382.8	µg/L	8382.8	ppb	10:19:46
3	K 766.490 Radial†	11716.0	11319.5	15447	µg/L	15447	ppb	10:19:26
3	Mg 279.077 IEC†	9909.5	10179.4	65592	µg/L	65592	ppb	10:19:46
3	Na 589.592 Radial†	79883.7	82133.9	114200	µg/L	114200	ppb	10:19:26
3	Sr 421.552†	71692.4	73641.3	849.38	µg/L	849.38	ppb	10:19:26
3	Sc 361.383	1300950.0	1300950.0	100.56	%			10:20:49
3	Y 371.029	743160.1	743160.1	97.304	%			10:20:49
3	Ag 328.068†	1161.4	479.7	-0.0860	µg/L	-0.0860	ppb	10:20:49
3	As 188.979†	6.5	10.1	19.862	µg/L	19.862	ppb	10:21:09
3	B 249.677†	55567.1	54980.4	611.42	µg/L	611.42	ppb	10:20:49
3	Ba 233.527†	42461.4	42312.6	583.55	µg/L	583.55	ppb	10:20:49
3	Be 313.107†	-9327.6	-1347.6	-0.5693	µg/L	-0.5693	ppb	10:20:49
3	Cd 226.502†	-73.6	31.6	-0.6055	µg/L	-0.6055	ppb	10:21:09
3	Co 228.616†	12.6	114.0	3.4939	µg/L	3.4939	ppb	10:21:09
3	Cr 267.716†	903.2	784.7	13.642	µg/L	13.642	ppb	10:21:09
3	Cu 324.752†	3980.2	-219.2	0.0761	µg/L	0.0761	ppb	10:20:49
3	Mn 257.610†	58608.0	58089.4	165.07	µg/L	165.07	ppb	10:20:49
3	Mo 202.031†	-65.0	-53.0	-3.0101	µg/L	-3.0101	ppb	10:21:09
3	Ni 231.604†	1012.8	1066.2	30.544	µg/L	30.544	ppb	10:21:09
3	P 214.914†	12.8	77.5	67.950	µg/L	67.950	ppb	10:21:09
3	Pb 220.353†	105.9	-8.9	-2.2316	µg/L	-2.2316	ppb	10:21:09
3	S 181.975 Axial†	3541.9	3494.0	10986	µg/L	10986	ppb	10:21:09
3	Sb 206.836†	1.2	-3.3	-2.4173	µg/L	-2.4173	ppb	10:21:09
3	Se 196.026†	13.4	1.5	6.42	µg/L	6.42	ppb	10:21:09
3	SiO2†	157431.0	154616.6	27941	µg/L	27941	ppb	10:20:49
3	Si 251.611†	454174.6	451252.3	12997	µg/L	12997	ppb	10:20:49
3	Sn 189.927†	-46.8	-47.3	-6.5999	µg/L	-6.5999	ppb	10:21:09
3	Ti 334.940†	-1355.1	-2896.4	0.1725	µg/L	0.1725	ppb	10:20:49
3	Tl 190.801†	-21.8	-3.7	-10.719	µg/L	-10.719	ppb	10:21:09
3	U 367.007†	685.6	389.1	37.408	µg/L	37.408	ppb	10:20:49
3	V 292.402†	1772.5	1459.9	11.465	µg/L	11.465	ppb	10:20:49
3	Zn 213.857†	1580.1	1021.1	9.9174	µg/L	9.9174	ppb	10:21:09

Mean Data: 335304001|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1291146.1	99.802	%	0.6796				0.68%
Sc RADIAL	23191.4	97.7	%	0.49				0.51%
Y 371.029	737691.7	96.588	%	0.6464				0.67%
Ag 328.068†	496.8	0.0728	µg/L	0.20651	0.0728	ppb	0.20651	283.50%
Al 396.153Radial†	-15.6	27.385	µg/L	23.3890	27.385	ppb	23.3890	85.41%
As 188.979†	7.3	14.639	µg/L	5.1577	14.639	ppb	5.1577	35.23%
B 249.677†	54918.6	610.75	µg/L	0.659	610.75	ppb	0.659	0.11%
Ba 233.527†	42209.6	582.13	µg/L	1.350	582.13	ppb	1.350	0.23%
Be 313.107†	-1372.4	-0.5798	µg/L	0.02177	-0.5798	ppb	0.02177	3.75%
Ca 317.933Radial†	190828.2	120280	µg/L	944.2	120280	ppb	944.2	0.78%
Cd 226.502†	42.8	-0.4371	µg/L	0.22029	-0.4371	ppb	0.22029	50.39%
Co 228.616†	123.2	3.7582	µg/L	0.24569	3.7582	ppb	0.24569	6.54%
Cr 267.716†	779.6	13.561	µg/L	0.0709	13.561	ppb	0.0709	0.52%
Cu 324.752†	-209.4	0.1323	µg/L	0.06034	0.1323	ppb	0.06034	45.60%
Fe 238.204 Radial†	2701.9	8376.7	µg/L	6.57	8376.7	ppb	6.57	0.08%
K 766.490 Radial†	11265.7	15373	µg/L	83.0	15373	ppb	83.0	0.54%
Mg 279.077 IEC†	10188.5	65651	µg/L	52.4	65651	ppb	52.4	0.08%
Mn 257.610†	58043.5	164.93	µg/L	0.133	164.93	ppb	0.133	0.08%
Mo 202.031†	-49.2	-2.5846	µg/L	0.38131	-2.5846	ppb	0.38131	14.75%
Na 589.592 Radial†	81747.8	113670	µg/L	464.9	113670	ppb	464.9	0.41%

Ni 231.604†	1084.6	31.073	µg/L	0.4629	31.073	ppb	0.4629	1.49%
P 214.914†	86.7	77.350	µg/L	11.0266	77.350	ppb	11.0266	14.26%
Pb 220.353†	-11.4	-2.7421	µg/L	1.30543	-2.7421	ppb	1.30543	47.61%
S 181.975 Axial†	3514.8	11052	µg/L	58.7	11052	ppb	58.7	0.53%
Sb 206.836†	-6.4	-4.2926	µg/L	1.65332	-4.2926	ppb	1.65332	38.52%
Se 196.026†	4.2	9.91	µg/L	3.195	9.91	ppb	3.195	32.26%
SiO2†	154197.2	27865	µg/L	69.5	27865	ppb	69.5	0.25%
Si 251.611†	450505.8	12976	µg/L	18.6	12976	ppb	18.6	0.14%
Sn 189.927†	-46.7	-6.4658	µg/L	1.28714	-6.4658	ppb	1.28714	19.91%
Sr 421.552†	73061.5	842.70	µg/L	5.859	842.70	ppb	5.859	0.70%
Ti 334.940†	-2943.0	0.0423	µg/L	0.14345	0.0423	ppb	0.14345	339.21%
Tl 190.801†	0.5	-5.5675	µg/L	5.21030	-5.5675	ppb	5.21030	93.58%
U 367.007†	319.9	18.091	µg/L	18.8529	18.091	ppb	18.8529	104.21%
V 292.402†	1395.0	11.005	µg/L	0.9733	11.005	ppb	0.9733	8.84%
Zn 213.857†	1039.7	10.144	µg/L	0.1960	10.144	ppb	0.1960	1.93%

Sequence No.: 4
Sample ID: 1202969091|1339673|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 304
Date Collected: 11/6/2013 10:21:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202969091|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23143.3	23143.3	97.5	%			10:22:07
1	Al 396.153Radial†	-131.6	-27.0	2.4498	µg/L	2.4498	ppb	10:22:07
1	Ca 317.933Radial†	183234.2	187897.9	118430	µg/L	118430	ppb	10:21:47
1	Fe 238.204 Radial†	2645.1	2680.6	8310.5	µg/L	8310.5	ppb	10:22:07
1	K 766.490 Radial†	11427.8	11004.4	15016	µg/L	15016	ppb	10:21:47
1	Mg 279.077 IEC†	9811.1	10062.1	64836	µg/L	64836	ppb	10:22:07
1	Na 589.592 Radial†	78514.1	80596.4	112070	µg/L	112070	ppb	10:21:47
1	Sr 421.552†	70120.9	71910.4	829.42	µg/L	829.42	ppb	10:21:47
1	Sc 361.383	1293748.2	1293748.2	100.00	%			10:23:09
1	Y 371.029	739681.4	739681.4	96.848	%			10:23:09
1	Ag 328.068†	1111.1	435.8	-0.2782	µg/L	-0.2782	ppb	10:23:09
1	As 188.979†	2.0	5.6	11.508	µg/L	11.508	ppb	10:23:29
1	B 249.677†	54379.7	54100.6	601.48	µg/L	601.48	ppb	10:23:09
1	Ba 233.527†	41576.1	41662.4	574.58	µg/L	574.58	ppb	10:23:09
1	Be 313.107†	-9258.2	-1329.9	-0.5619	µg/L	-0.5619	ppb	10:23:09
1	Cd 226.502†	-69.1	35.7	-0.5355	µg/L	-0.5355	ppb	10:23:29
1	Co 228.616†	17.6	119.0	3.6349	µg/L	3.6349	ppb	10:23:29
1	Cr 267.716†	864.9	751.4	13.067	µg/L	13.067	ppb	10:23:29
1	Cu 324.752†	3676.2	-501.2	-1.8563	µg/L	-1.8563	ppb	10:23:09
1	Mn 257.610†	57353.1	57159.0	162.42	µg/L	162.42	ppb	10:23:09
1	Mo 202.031†	-62.4	-50.7	-2.7870	µg/L	-2.7870	ppb	10:23:29
1	Ni 231.604†	1016.8	1075.8	30.820	µg/L	30.820	ppb	10:23:29
1	P 214.914†	31.6	96.3	87.274	µg/L	87.274	ppb	10:23:29
1	Pb 220.353†	103.9	-10.3	-2.5034	µg/L	-2.5034	ppb	10:23:29
1	S 181.975 Axial†	3457.5	3429.3	10783	µg/L	10783	ppb	10:23:29
1	Sb 206.836†	-6.9	-11.5	-7.4680	µg/L	-7.4680	ppb	10:23:29
1	Se 196.026†	18.0	6.2	12.5	µg/L	12.5	ppb	10:23:29
1	SiO2†	153133.9	151191.2	27322	µg/L	27322	ppb	10:23:09
1	Si 251.611†	443008.8	442600.9	12748	µg/L	12748	ppb	10:23:09
1	Sn 189.927†	-44.1	-44.9	-5.9211	µg/L	-5.9211	ppb	10:23:29
1	Ti 334.940†	-1501.0	-3049.8	-0.2359	µg/L	-0.2359	ppb	10:23:09
1	Tl 190.801†	-16.3	1.7	-4.0606	µg/L	-4.0606	ppb	10:23:29
1	U 367.007†	576.5	283.8	8.6540	µg/L	8.6540	ppb	10:23:09
1	V 292.402†	1658.9	1356.0	10.714	µg/L	10.714	ppb	10:23:09
1	Zn 213.857†	1409.4	859.1	7.9425	µg/L	7.9425	ppb	10:23:29
2	Sc RADIAL	23096.5	23096.5	97.3	%			10:22:29
2	Al 396.153Radial†	-119.0	-14.3	29.513	µg/L	29.513	ppb	10:22:29
2	Ca 317.933Radial†	183778.5	188839.1	119020	µg/L	119020	ppb	10:22:09
2	Fe 238.204 Radial†	2630.3	2670.9	8280.5	µg/L	8280.5	ppb	10:22:29
2	K 766.490 Radial†	11406.1	11006.0	15019	µg/L	15019	ppb	10:22:09
2	Mg 279.077 IEC†	9776.8	10047.3	64741	µg/L	64741	ppb	10:22:29
2	Na 589.592 Radial†	78033.0	80265.5	111600	µg/L	111600	ppb	10:22:09
2	Sr 421.552†	70437.2	72381.5	834.85	µg/L	834.85	ppb	10:22:09
2	Sc 361.383	1289760.9	1289760.9	99.695	%			10:23:31
2	Y 371.029	736380.3	736380.3	96.416	%			10:23:31
2	Ag 328.068†	1358.3	687.3	1.3755	µg/L	1.3755	ppb	10:23:31
2	As 188.979†	-4.0	-0.4	0.1582	µg/L	0.1582	ppb	10:23:51
2	B 249.677†	53990.5	53878.3	598.97	µg/L	598.97	ppb	10:23:31
2	Ba 233.527†	41201.2	41414.8	571.17	µg/L	571.17	ppb	10:23:31
2	Be 313.107†	-9081.7	-1181.5	-0.4992	µg/L	-0.4992	ppb	10:23:31
2	Cd 226.502†	-63.2	41.4	-0.4463	µg/L	-0.4463	ppb	10:23:51
2	Co 228.616†	27.5	129.0	3.9181	µg/L	3.9181	ppb	10:23:51
2	Cr 267.716†	881.3	770.5	13.405	µg/L	13.405	ppb	10:23:51
2	Cu 324.752†	3647.0	-519.1	-1.9760	µg/L	-1.9760	ppb	10:23:31
2	Mn 257.610†	56985.5	56967.6	161.87	µg/L	161.87	ppb	10:23:31
2	Mo 202.031†	-68.5	-57.0	-3.4963	µg/L	-3.4963	ppb	10:23:51
2	Ni 231.604†	995.8	1057.9	30.306	µg/L	30.306	ppb	10:23:51
2	P 214.914†	15.3	80.0	70.743	µg/L	70.743	ppb	10:23:51
2	Pb 220.353†	96.9	-17.1	-3.9221	µg/L	-3.9221	ppb	10:23:51

2	S 181.975 Axial†	3443.2	3425.6	10771	µg/L	10771	ppb	10:23:51
2	Sb 206.836†	-0.8	-5.4	-3.6910	µg/L	-3.6910	ppb	10:23:51
2	Se 196.026†	22.5	10.7	18.4	µg/L	18.4	ppb	10:23:51
2	SiO2†	152382.0	150910.4	27271	µg/L	27271	ppb	10:23:31
2	Si 251.611†	440283.0	441236.3	12709	µg/L	12709	ppb	10:23:31
2	Sn 189.927†	-52.3	-53.2	-9.1866	µg/L	-9.1866	ppb	10:23:51
2	Ti 334.940†	-1273.8	-2826.6	0.2012	µg/L	0.2012	ppb	10:23:31
2	Tl 190.801†	-15.5	2.5	-3.1452	µg/L	-3.1452	ppb	10:23:51
2	U 367.007†	612.4	321.5	19.371	µg/L	19.371	ppb	10:23:31
2	V 292.402†	1580.6	1282.7	10.196	µg/L	10.196	ppb	10:23:31
2	Zn 213.857†	1398.9	852.9	7.8752	µg/L	7.8752	ppb	10:23:51
3	Sc RADIAL	23011.7	23011.7	96.9	%			10:22:51
3	Al 396.153Radial†	-121.3	-17.1	23.273	µg/L	23.273	ppb	10:22:51
3	Ca 317.933Radial†	182115.0	187818.8	118380	µg/L	118380	ppb	10:22:31
3	Fe 238.204 Radial†	2628.1	2678.6	8304.4	µg/L	8304.4	ppb	10:22:51
3	K 766.490 Radial†	11462.2	11107.0	15157	µg/L	15157	ppb	10:22:31
3	Mg 279.077 IEC†	9752.5	10059.2	64817	µg/L	64817	ppb	10:22:51
3	Na 589.592 Radial†	77855.4	80377.7	111760	µg/L	111760	ppb	10:22:31
3	Sr 421.552†	69744.7	71933.8	829.69	µg/L	829.69	ppb	10:22:31
3	Sc 361.383	1278665.4	1278665.4	98.837	%			10:23:54
3	Y 371.029	731057.0	731057.0	95.719	%			10:23:54
3	Ag 328.068†	1145.5	483.8	0.0277	µg/L	0.0277	ppb	10:23:54
3	As 188.979†	3.2	6.9	13.794	µg/L	13.794	ppb	10:24:14
3	B 249.677†	53476.3	53828.0	598.23	µg/L	598.23	ppb	10:23:54
3	Ba 233.527†	40847.0	41415.1	571.17	µg/L	571.17	ppb	10:23:54
3	Be 313.107†	-9142.1	-1321.6	-0.5584	µg/L	-0.5584	ppb	10:23:54
3	Cd 226.502†	-66.6	37.4	-0.5081	µg/L	-0.5081	ppb	10:24:14
3	Co 228.616†	13.4	115.0	3.5177	µg/L	3.5177	ppb	10:24:14
3	Cr 267.716†	853.1	749.7	13.027	µg/L	13.027	ppb	10:24:14
3	Cu 324.752†	3606.7	-528.2	-2.0317	µg/L	-2.0317	ppb	10:23:54
3	Mn 257.610†	56509.3	56981.7	161.91	µg/L	161.91	ppb	10:23:54
3	Mo 202.031†	-65.3	-54.4	-3.2035	µg/L	-3.2035	ppb	10:24:14
3	Ni 231.604†	1009.3	1080.2	30.946	µg/L	30.946	ppb	10:24:14
3	P 214.914†	22.4	87.3	78.150	µg/L	78.150	ppb	10:24:14
3	Pb 220.353†	98.9	-14.2	-3.3258	µg/L	-3.3258	ppb	10:24:14
3	S 181.975 Axial†	3447.7	3460.2	10880	µg/L	10880	ppb	10:24:14
3	Sb 206.836†	1.3	-3.3	-2.3696	µg/L	-2.3696	ppb	10:24:14
3	Se 196.026†	7.4	-4.3	-1.21	µg/L	-1.21	ppb	10:24:14
3	SiO2†	151322.6	151164.8	27317	µg/L	27317	ppb	10:23:54
3	Si 251.611†	436967.0	441713.6	12722	µg/L	12722	ppb	10:23:54
3	Sn 189.927†	-54.5	-55.9	-10.337	µg/L	-10.337	ppb	10:24:14
3	Ti 334.940†	-1315.4	-2879.8	0.0677	µg/L	0.0677	ppb	10:23:54
3	Tl 190.801†	-17.5	0.3	-5.7476	µg/L	-5.7476	ppb	10:24:14
3	U 367.007†	624.0	338.6	24.211	µg/L	24.211	ppb	10:23:54
3	V 292.402†	1557.0	1272.5	10.134	µg/L	10.134	ppb	10:23:54
3	Zn 213.857†	1401.4	867.7	8.0489	µg/L	8.0489	ppb	10:24:14

Mean Data: 1202969091|1339673|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1287391.5	99.512	%	0.6041				0.61%
Sc RADIAL	23083.8	97.2	%	0.28				0.29%
Y 371.029	735706.2	96.328	%	0.5698				0.59%
Ag 328.068†	535.6	0.3750	µg/L	0.87986	0.3750	ppb	0.87986	234.63%
Al 396.153Radial†	-19.5	18.412	µg/L	14.1713	18.412	ppb	14.1713	76.97%
As 188.979†	4.0	8.4865	µg/L	7.30247	8.4865	ppb	7.30247	86.05%
B 249.677†	53935.7	599.56	µg/L	1.705	599.56	ppb	1.705	0.28%
Ba 233.527†	41497.4	572.31	µg/L	1.971	572.31	ppb	1.971	0.34%
Be 313.107†	-1277.7	-0.5398	µg/L	0.03524	-0.5398	ppb	0.03524	6.53%
Ca 317.933Radial†	188185.3	118610	µg/L	357.8	118610	ppb	357.8	0.30%
Cd 226.502†	38.2	-0.4966	µg/L	0.04572	-0.4966	ppb	0.04572	9.21%
Co 228.616†	121.0	3.6902	µg/L	0.20589	3.6902	ppb	0.20589	5.58%
Cr 267.716†	757.2	13.166	µg/L	0.2073	13.166	ppb	0.2073	1.57%
Cu 324.752†	-516.2	-1.9547	µg/L	0.08958	-1.9547	ppb	0.08958	4.58%
Fe 238.204 Radial†	2676.7	8298.5	µg/L	15.85	8298.5	ppb	15.85	0.19%
K 766.490 Radial†	11039.2	15064	µg/L	80.5	15064	ppb	80.5	0.53%
Mg 279.077 IEC†	10056.2	64798	µg/L	50.7	64798	ppb	50.7	0.08%
Mn 257.610†	57036.1	162.06	µg/L	0.306	162.06	ppb	0.306	0.19%
Mo 202.031†	-54.0	-3.1623	µg/L	0.35644	-3.1623	ppb	0.35644	11.27%
Na 589.592 Radial†	80413.2	111810	µg/L	234.0	111810	ppb	234.0	0.21%

Ni 231.604†	1071.3	30.690	µg/L	0.3391	30.690	ppb	0.3391	1.10%
P 214.914†	87.9	78.722	µg/L	8.2801	78.722	ppb	8.2801	10.52%
Pb 220.353†	-13.9	-3.2504	µg/L	0.71235	-3.2504	ppb	0.71235	21.92%
S 181.975 Axial†	3438.4	10811	µg/L	59.8	10811	ppb	59.8	0.55%
Sb 206.836†	-6.7	-4.5095	µg/L	2.64592	-4.5095	ppb	2.64592	58.67%
Se 196.026†	4.2	9.90	µg/L	10.055	9.90	ppb	10.055	101.61%
SiO2†	151088.8	27303	µg/L	28.0	27303	ppb	28.0	0.10%
Si 251.611†	441850.3	12726	µg/L	19.9	12726	ppb	19.9	0.16%
Sn 189.927†	-51.3	-8.4816	µg/L	2.29090	-8.4816	ppb	2.29090	27.01%
Sr 421.552†	72075.2	831.32	µg/L	3.063	831.32	ppb	3.063	0.37%
Ti 334.940†	-2918.7	0.0110	µg/L	0.22401	0.0110	ppb	0.22401	>999.9%
Tl 190.801†	1.5	-4.3178	µg/L	1.32017	-4.3178	ppb	1.32017	30.58%
U 367.007†	314.6	17.412	µg/L	7.9613	17.412	ppb	7.9613	45.72%
V 292.402†	1303.8	10.348	µg/L	0.3185	10.348	ppb	0.3185	3.08%
Zn 213.857†	859.9	7.9555	µg/L	0.08760	7.9555	ppb	0.08760	1.10%

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Sequence No.: 5 **Autosampler Location: 305**
Sample ID: 1202969092|1339673|1 **Date Collected: 11/6/2013 10:24:22**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969092|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23379.2	23379.2	98.5	%			10:24:54
1	Al 396.153Radial†	2214.8	2357.3	5003.4	µg/L	5003.4	ppb	10:24:54
1	Ca 317.933Radial†	192976.8	195895.5	123470	µg/L	123470	ppb	10:24:52
1	Fe 238.204 Radial†	4388.9	4424.1	13701	µg/L	13701	ppb	10:24:54
1	K 766.490 Radial†	15779.4	15305.4	20912	µg/L	20912	ppb	10:24:54
1	Mg 279.077 IEC†	10917.5	11084.1	71422	µg/L	71422	ppb	10:24:54
1	Na 589.592 Radial†	84073.6	85429.8	118790	µg/L	118790	ppb	10:24:52
1	Sr 421.552†	114221.7	115971.3	1338.1	µg/L	1338.1	ppb	10:24:52
1	Sc 361.383	1278273.9	1278273.9	98.807	%			10:25:19
1	Y 371.029	726639.0	726639.0	95.141	%			10:25:19
1	Ag 328.068†	78084.4	78351.8	521.51	µg/L	521.51	ppb	10:25:22
1	As 188.979†	293.6	300.8	572.76	µg/L	572.76	ppb	10:25:42
1	B 249.677†	98587.4	99500.3	1116.7	µg/L	1116.7	ppb	10:25:22
1	Ba 233.527†	77164.4	78183.6	1079.6	µg/L	1079.6	ppb	10:25:22
1	Be 313.107†	1220391.0	1243051.0	525.17	µg/L	525.17	ppb	10:25:19
1	Cd 226.502†	32237.2	32731.1	487.07	µg/L	487.07	ppb	10:25:22
1	Co 228.616†	17329.0	17639.6	503.78	µg/L	503.78	ppb	10:25:22
1	Cr 267.716†	25733.9	25931.1	466.07	µg/L	466.07	ppb	10:25:22
1	Cu 324.752†	79753.4	76538.9	519.62	µg/L	519.62	ppb	10:25:22
1	Mn 257.610†	213282.5	215665.0	618.13	µg/L	618.13	ppb	10:25:22
1	Mo 202.031†	4013.9	4074.0	458.13	µg/L	458.13	ppb	10:25:42
1	Ni 231.604†	16209.5	16464.1	472.27	µg/L	472.27	ppb	10:25:22
1	P 214.914†	474.3	544.7	529.73	µg/L	529.73	ppb	10:25:42
1	Pb 220.353†	2486.2	2402.0	501.03	µg/L	501.03	ppb	10:25:42
1	S 181.975 Axial†	4742.5	4771.7	15006	µg/L	15006	ppb	10:25:42
1	Sb 206.836†	667.4	670.9	417.50	µg/L	417.50	ppb	10:25:42
1	Se 196.026†	328.4	320.6	424	µg/L	424	ppb	10:25:42
1	SiO2†	204965.8	205502.5	37145	µg/L	37145	ppb	10:25:22
1	Si 251.611†	599423.5	606266.6	17456	µg/L	17456	ppb	10:25:19
1	Sn 189.927†	974.5	985.5	405.80	µg/L	405.80	ppb	10:25:42
1	Ti 334.940†	251318.4	252803.3	471.82	µg/L	471.82	ppb	10:25:22
1	Tl 190.801†	388.7	411.4	483.99	µg/L	483.99	ppb	10:25:42
1	U 367.007†	2473.3	2210.4	522.02	µg/L	522.02	ppb	10:25:22
1	V 292.402†	67659.8	68173.8	484.36	µg/L	484.36	ppb	10:25:22
1	Zn 213.857†	37371.5	37272.4	454.25	µg/L	454.25	ppb	10:25:22
2	Sc RADIAL	22642.8	22642.8	95.4	%			10:24:58
2	Al 396.153Radial†	2114.9	2325.6	4938.0	µg/L	4938.0	ppb	10:24:58
2	Ca 317.933Radial†	191168.5	200373.7	126290	µg/L	126290	ppb	10:24:56
2	Fe 238.204 Radial†	4225.3	4397.5	13619	µg/L	13619	ppb	10:24:58
2	K 766.490 Radial†	15309.0	15333.5	20949	µg/L	20949	ppb	10:24:58
2	Mg 279.077 IEC†	10418.3	10921.3	70373	µg/L	70373	ppb	10:24:58
2	Na 589.592 Radial†	82047.8	86082.5	119690	µg/L	119690	ppb	10:24:56
2	Sr 421.552†	113362.5	118843.2	1371.3	µg/L	1371.3	ppb	10:24:56
2	Sc 361.383	1219496.4	1219496.4	94.264	%			10:25:44
2	Y 371.029	693756.3	693756.3	90.835	%			10:25:44
2	Ag 328.068†	72500.1	76236.7	507.30	µg/L	507.30	ppb	10:25:46
2	As 188.979†	312.1	334.8	636.63	µg/L	636.63	ppb	10:26:06
2	B 249.677†	90712.4	95955.2	1075.1	µg/L	1075.1	ppb	10:25:46
2	Ba 233.527†	70604.8	74988.9	1035.4	µg/L	1035.4	ppb	10:25:46
2	Be 313.107†	1159111.1	1237572.8	522.86	µg/L	522.86	ppb	10:25:44
2	Cd 226.502†	29280.8	31167.3	463.72	µg/L	463.72	ppb	10:25:46
2	Co 228.616†	15862.3	16928.9	483.54	µg/L	483.54	ppb	10:25:46
2	Cr 267.716†	23728.3	25058.8	450.40	µg/L	450.40	ppb	10:25:46
2	Cu 324.752†	74122.1	74455.3	505.49	µg/L	505.49	ppb	10:25:46
2	Mn 257.610†	196530.2	208297.2	596.98	µg/L	596.98	ppb	10:25:46
2	Mo 202.031†	4193.6	4460.4	501.22	µg/L	501.22	ppb	10:26:06
2	Ni 231.604†	14835.0	15796.7	453.12	µg/L	453.12	ppb	10:25:46
2	P 214.914†	498.9	594.0	579.86	µg/L	579.86	ppb	10:26:06
2	Pb 220.353†	2572.7	2615.1	545.54	µg/L	545.54	ppb	10:26:06

2	S 181.975 Axial†	4938.0	5210.4	16387	µg/L	16387	ppb	10:26:06
2	Sb 206.836†	702.1	740.3	461.20	µg/L	461.20	ppb	10:26:06
2	Se 196.026†	352.2	361.8	477	µg/L	477	ppb	10:26:06
2	SiO2†	190051.8	199679.2	36092	µg/L	36092	ppb	10:25:46
2	Si 251.611†	571220.0	605586.7	17436	µg/L	17436	ppb	10:25:44
2	Sn 189.927†	1024.0	1085.5	445.98	µg/L	445.98	ppb	10:26:06
2	Ti 334.940†	232579.7	245183.7	457.93	µg/L	457.93	ppb	10:25:46
2	Tl 190.801†	408.6	451.4	532.25	µg/L	532.25	ppb	10:26:06
2	U 367.007†	2262.8	2107.8	493.03	µg/L	493.03	ppb	10:25:46
2	V 292.402†	62182.7	65663.9	467.32	µg/L	467.32	ppb	10:25:46
2	Zn 213.857†	34479.6	36027.5	439.02	µg/L	439.02	ppb	10:25:46
3	Sc RADIAL	23258.3	23258.3	98.0	%			10:25:02
3	Al 396.153Radial†	2177.1	2330.4	4947.3	µg/L	4947.3	ppb	10:25:02
3	Ca 317.933Radial†	193054.5	196993.7	124160	µg/L	124160	ppb	10:25:00
3	Fe 238.204 Radial†	4339.8	4397.2	13617	µg/L	13617	ppb	10:25:02
3	K 766.490 Radial†	15646.8	15253.4	20842	µg/L	20842	ppb	10:25:02
3	Mg 279.077 IEC†	10803.0	11025.0	71041	µg/L	71041	ppb	10:25:02
3	Na 589.592 Radial†	82550.7	84319.0	117240	µg/L	117240	ppb	10:25:00
3	Sr 421.552†	114629.4	116990.5	1349.9	µg/L	1349.9	ppb	10:25:00
3	Sc 361.383	1300504.5	1300504.5	100.53	%			10:26:08
3	Y 371.029	739037.6	739037.6	96.764	%			10:26:08
3	Ag 328.068†	81135.6	80036.2	532.78	µg/L	532.78	ppb	10:26:10
3	As 188.979†	325.4	327.4	622.88	µg/L	622.88	ppb	10:26:30
3	B 249.677†	102896.7	102081.4	1147.6	µg/L	1147.6	ppb	10:26:10
3	Ba 233.527†	80318.4	79986.1	1104.4	µg/L	1104.4	ppb	10:26:10
3	Be 313.107†	1250741.3	1252129.7	529.01	µg/L	529.01	ppb	10:26:08
3	Cd 226.502†	33948.8	33876.1	504.17	µg/L	504.17	ppb	10:26:10
3	Co 228.616†	18070.8	18077.7	516.31	µg/L	516.31	ppb	10:26:10
3	Cr 267.716†	26941.1	26686.8	479.67	µg/L	479.67	ppb	10:26:10
3	Cu 324.752†	82936.7	78325.8	531.69	µg/L	531.69	ppb	10:26:10
3	Mn 257.610†	222149.4	220795.7	632.90	µg/L	632.90	ppb	10:26:10
3	Mo 202.031†	4246.5	4236.0	476.19	µg/L	476.19	ppb	10:26:30
3	Ni 231.604†	16833.1	16804.1	482.02	µg/L	482.02	ppb	10:26:10
3	P 214.914†	507.2	569.2	554.60	µg/L	554.60	ppb	10:26:30
3	Pb 220.353†	2607.4	2479.5	517.22	µg/L	517.22	ppb	10:26:30
3	S 181.975 Axial†	5026.3	4972.0	15636	µg/L	15636	ppb	10:26:30
3	Sb 206.836†	705.7	697.4	434.05	µg/L	434.05	ppb	10:26:30
3	Se 196.026†	345.2	331.6	438	µg/L	438	ppb	10:26:30
3	SiO2†	212531.2	209482.4	37865	µg/L	37865	ppb	10:26:10
3	Si 251.611†	611647.7	608056.7	17507	µg/L	17507	ppb	10:26:08
3	Sn 189.927†	1038.2	1032.0	424.41	µg/L	424.41	ppb	10:26:30
3	Ti 334.940†	261490.7	258574.6	482.50	µg/L	482.50	ppb	10:26:10
3	Tl 190.801†	402.5	418.4	492.26	µg/L	492.26	ppb	10:26:30
3	U 367.007†	2574.8	2268.6	538.73	µg/L	538.73	ppb	10:26:10
3	V 292.402†	70343.1	69672.5	495.06	µg/L	495.06	ppb	10:26:10
3	Zn 213.857†	39003.0	38248.9	466.27	µg/L	466.27	ppb	10:26:10

Mean Data: 1202969092|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1266091.6	97.866	%	3.2353				3.31%
Sc RADIAL	23093.4	97.3	%	1.66				1.71%
Y 371.029	719811.0	94.247	%	3.0638				3.25%
Ag 328.068†	78208.2	520.53	µg/L	12.766	520.53	ppb	12.766	2.45%
Al 396.153Radial†	2337.8	4962.9	µg/L	35.40	4962.9	ppb	35.40	0.71%
As 188.979†	321.0	610.76	µg/L	33.616	610.76	ppb	33.616	5.50%
B 249.677†	99179.0	1113.1	µg/L	36.39	1113.1	ppb	36.39	3.27%
Ba 233.527†	77719.5	1073.1	µg/L	34.95	1073.1	ppb	34.95	3.26%
Be 313.107†	1244251.2	525.68	µg/L	3.106	525.68	ppb	3.106	0.59%
Ca 317.933Radial†	197754.3	124640	µg/L	1471.4	124640	ppb	1471.4	1.18%
Cd 226.502†	32591.5	484.99	µg/L	20.305	484.99	ppb	20.305	4.19%
Co 228.616†	17548.8	501.21	µg/L	16.535	501.21	ppb	16.535	3.30%
Cr 267.716†	25892.2	465.38	µg/L	14.645	465.38	ppb	14.645	3.15%
Cu 324.752†	76440.0	518.93	µg/L	13.112	518.93	ppb	13.112	2.53%
Fe 238.204 Radial†	4406.3	13645	µg/L	47.8	13645	ppb	47.8	0.35%
K 766.490 Radial†	15297.4	20901	µg/L	54.7	20901	ppb	54.7	0.26%
Mg 279.077 IEC†	11010.1	70946	µg/L	531.1	70946	ppb	531.1	0.75%
Mn 257.610†	214919.3	616.00	µg/L	18.052	616.00	ppb	18.052	2.93%
Mo 202.031†	4256.8	478.51	µg/L	21.641	478.51	ppb	21.641	4.52%
Na 589.592 Radial†	85277.1	118570	µg/L	1239.7	118570	ppb	1239.7	1.05%

Ni 231.604†	16355.0	469.14	µg/L	14.703	469.14	ppb	14.703	3.13%
P 214.914†	569.3	554.73	µg/L	25.065	554.73	ppb	25.065	4.52%
Pb 220.353†	2498.9	521.26	µg/L	22.530	521.26	ppb	22.530	4.32%
S 181.975 Axial†	4984.7	15676	µg/L	691.5	15676	ppb	691.5	4.41%
Sb 206.836†	702.9	437.58	µg/L	22.064	437.58	ppb	22.064	5.04%
Se 196.026†	338.0	446	µg/L	27.7	446	ppb	27.7	6.22%
SiO2†	204888.0	37034	µg/L	891.2	37034	ppb	891.2	2.41%
Si 251.611†	606636.7	17466	µg/L	36.8	17466	ppb	36.8	0.21%
Sn 189.927†	1034.4	425.40	µg/L	20.105	425.40	ppb	20.105	4.73%
Sr 421.552†	117268.3	1353.1	µg/L	16.80	1353.1	ppb	16.80	1.24%
Ti 334.940†	252187.2	470.75	µg/L	12.321	470.75	ppb	12.321	2.62%
Tl 190.801†	427.1	502.83	µg/L	25.810	502.83	ppb	25.810	5.13%
U 367.007†	2195.6	517.93	µg/L	23.121	517.93	ppb	23.121	4.46%
V 292.402†	67836.7	482.24	µg/L	13.991	482.24	ppb	13.991	2.90%
Zn 213.857†	37182.9	453.18	µg/L	13.656	453.18	ppb	13.656	3.01%

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Sequence No.: 6 **Autosampler Location: 306**
Sample ID: 1202969093|1339673|5 **Date Collected: 11/6/2013 10:26:39**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969093|1339673|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23436.1	23436.1	98.7	%			10:27:09
1	Al 396.153Radial†	-118.3	-11.8	-12.905	µg/L	-12.905	ppb	10:27:29
1	Ca 317.933Radial†	37231.6	37636.4	23721	µg/L	23721	ppb	10:27:09
1	Fe 238.204 Radial†	551.4	525.6	1629.4	µg/L	1629.4	ppb	10:27:29
1	K 766.490 Radial†	2969.0	2288.5	3122.9	µg/L	3122.9	ppb	10:27:09
1	Mg 279.077 IEC†	2008.0	2031.2	13088	µg/L	13088	ppb	10:27:29
1	Na 589.592 Radial†	16150.6	16410.6	22818	µg/L	22818	ppb	10:27:09
1	Sr 421.552†	14180.6	14339.3	165.39	µg/L	165.39	ppb	10:27:09
1	Sc 361.383	1315775.8	1315775.8	101.71	%			10:28:30
1	Y 371.029	758964.4	758964.4	99.373	%			10:28:30
1	Ag 328.068†	747.8	60.0	-0.2567	µg/L	-0.2567	ppb	10:28:32
1	As 188.979†	-5.4	-1.7	-3.0168	µg/L	-3.0168	ppb	10:28:52
1	B 249.677†	10700.1	10243.4	113.56	µg/L	113.56	ppb	10:28:32
1	Ba 233.527†	8041.0	7993.8	110.25	µg/L	110.25	ppb	10:28:32
1	Be 313.107†	-8848.2	-771.8	-0.3261	µg/L	-0.3261	ppb	10:28:32
1	Cd 226.502†	-111.6	-5.0	-0.2841	µg/L	-0.2841	ppb	10:28:52
1	Co 228.616†	-46.8	55.4	1.6267	µg/L	1.6267	ppb	10:28:52
1	Cr 267.716†	301.0	182.5	3.1784	µg/L	3.1784	ppb	10:28:52
1	Cu 324.752†	4114.8	-131.5	-0.5754	µg/L	-0.5754	ppb	10:28:32
1	Mn 257.610†	11568.8	11182.5	31.761	µg/L	31.761	ppb	10:28:32
1	Mo 202.031†	-23.6	-11.6	-0.7126	µg/L	-0.7126	ppb	10:28:52
1	Ni 231.604†	136.9	193.6	5.5465	µg/L	5.5465	ppb	10:28:52
1	P 214.914†	-60.2	5.4	3.4066	µg/L	3.4066	ppb	10:28:52
1	Pb 220.353†	96.6	-19.3	-4.1071	µg/L	-4.1071	ppb	10:28:52
1	S 181.975 Axial†	710.4	670.4	2107.8	µg/L	2107.8	ppb	10:28:52
1	Sb 206.836†	3.5	-1.1	-0.7588	µg/L	-0.7588	ppb	10:28:52
1	Se 196.026†	6.0	-5.9	-6.80	µg/L	-6.80	ppb	10:28:52
1	SiO2†	31059.1	28600.5	5168.4	µg/L	5168.4	ppb	10:28:32
1	Si 251.611†	85369.3	83544.4	2406.3	µg/L	2406.3	ppb	10:28:32
1	Sn 189.927†	-18.6	-19.1	-5.2108	µg/L	-5.2108	ppb	10:28:52
1	Ti 334.940†	1012.1	-553.7	0.0463	µg/L	0.0463	ppb	10:28:32
1	Tl 190.801†	-16.7	1.6	0.7125	µg/L	0.7125	ppb	10:28:52
1	U 367.007†	432.3	132.3	23.259	µg/L	23.259	ppb	10:28:32
1	V 292.402†	591.1	278.4	2.2000	µg/L	2.2000	ppb	10:28:32
1	Zn 213.857†	869.4	304.6	3.2339	µg/L	3.2339	ppb	10:28:52
2	Sc RADIAL	23038.8	23038.8	97.0	%			10:27:31
2	Al 396.153Radial†	-106.8	-2.1	7.5356	µg/L	7.5356	ppb	10:27:51
2	Ca 317.933Radial†	36939.9	37986.2	23942	µg/L	23942	ppb	10:27:31
2	Fe 238.204 Radial†	554.1	538.0	1668.1	µg/L	1668.1	ppb	10:27:51
2	K 766.490 Radial†	2931.3	2301.5	3140.8	µg/L	3140.8	ppb	10:27:31
2	Mg 279.077 IEC†	2002.2	2060.3	13276	µg/L	13276	ppb	10:27:51
2	Na 589.592 Radial†	15781.3	16312.2	22681	µg/L	22681	ppb	10:27:31
2	Sr 421.552†	14141.9	14547.2	167.79	µg/L	167.79	ppb	10:27:31
2	Sc 361.383	1336209.8	1336209.8	103.29	%			10:28:54
2	Y 371.029	769481.6	769481.6	100.75	%			10:28:54
2	Ag 328.068†	793.7	93.2	-0.0331	µg/L	-0.0331	ppb	10:28:56
2	As 188.979†	-3.8	-0.1	0.0791	µg/L	0.0791	ppb	10:29:16
2	B 249.677†	11216.8	10582.7	117.42	µg/L	117.42	ppb	10:28:56
2	Ba 233.527†	8472.1	8290.3	114.33	µg/L	114.33	ppb	10:28:56
2	Be 313.107†	-9149.4	-930.3	-0.3930	µg/L	-0.3930	ppb	10:28:56
2	Cd 226.502†	-85.1	22.4	0.1201	µg/L	0.1201	ppb	10:29:16
2	Co 228.616†	-62.2	41.2	1.2233	µg/L	1.2233	ppb	10:29:16
2	Cr 267.716†	310.0	186.7	3.2603	µg/L	3.2603	ppb	10:29:16
2	Cu 324.752†	4310.8	-3.6	0.2896	µg/L	0.2896	ppb	10:28:56
2	Mn 257.610†	11950.5	11378.2	32.319	µg/L	32.319	ppb	10:28:56
2	Mo 202.031†	-29.6	-16.9	-1.3043	µg/L	-1.3043	ppb	10:29:16
2	Ni 231.604†	159.3	213.3	6.1095	µg/L	6.1095	ppb	10:29:16
2	P 214.914†	-62.7	3.9	1.8245	µg/L	1.8245	ppb	10:29:16
2	Pb 220.353†	91.7	-25.4	-5.3768	µg/L	-5.3768	ppb	10:29:16

2	S 181.975 Axial†	719.7	668.7	2102.5	µg/L	2102.5	ppb	10:29:16
2	Sb 206.836†	5.5	0.8	0.4210	µg/L	0.4210	ppb	10:29:16
2	Se 196.026†	18.6	6.1	8.87	µg/L	8.87	ppb	10:29:16
2	SiO2†	32303.4	29338.3	5301.7	µg/L	5301.7	ppb	10:28:56
2	Si 251.611†	88488.2	85280.4	2456.3	µg/L	2456.3	ppb	10:28:56
2	Sn 189.927†	-19.9	-20.0	-5.5446	µg/L	-5.5446	ppb	10:29:16
2	Ti 334.940†	992.4	-588.1	-0.0020	µg/L	-0.0020	ppb	10:28:56
2	Tl 190.801†	-13.4	5.0	4.7985	µg/L	4.7985	ppb	10:29:16
2	U 367.007†	399.3	93.9	12.130	µg/L	12.130	ppb	10:28:56
2	V 292.402†	536.5	216.6	1.7609	µg/L	1.7609	ppb	10:28:56
2	Zn 213.857†	870.7	292.8	3.0744	µg/L	3.0744	ppb	10:29:16
3	Sc RADIAL	23431.2	23431.2	98.7	%			10:27:53
3	Al 396.153Radial†	-112.7	-6.2	-1.0703	µg/L	-1.0703	ppb	10:28:13
3	Ca 317.933Radial†	37421.2	37836.4	23848	µg/L	23848	ppb	10:27:53
3	Fe 238.204 Radial†	564.0	538.5	1669.6	µg/L	1669.6	ppb	10:28:13
3	K 766.490 Radial†	2942.2	2262.0	3087.0	µg/L	3087.0	ppb	10:27:53
3	Mg 279.077 IEC†	2025.2	2049.0	13203	µg/L	13203	ppb	10:28:13
3	Na 589.592 Radial†	15644.9	15901.6	22110	µg/L	22110	ppb	10:27:53
3	Sr 421.552†	14276.4	14439.4	166.54	µg/L	166.54	ppb	10:27:53
3	Sc 361.383	1323814.3	1323814.3	102.33	%			10:29:18
3	Y 371.029	763597.0	763597.0	99.980	%			10:29:18
3	Ag 328.068†	1002.1	304.0	1.3793	µg/L	1.3793	ppb	10:29:21
3	As 188.979†	0.1	3.7	7.1607	µg/L	7.1607	ppb	10:29:41
3	B 249.677†	11421.9	10884.9	121.00	µg/L	121.00	ppb	10:29:21
3	Ba 233.527†	8522.6	8416.4	116.08	µg/L	116.08	ppb	10:29:21
3	Be 313.107†	-9208.7	-1071.3	-0.4526	µg/L	-0.4526	ppb	10:29:21
3	Cd 226.502†	-99.7	7.4	-0.1040	µg/L	-0.1040	ppb	10:29:41
3	Co 228.616†	-66.3	36.7	1.0949	µg/L	1.0949	ppb	10:29:41
3	Cr 267.716†	314.1	193.6	3.3820	µg/L	3.3820	ppb	10:29:41
3	Cu 324.752†	4406.2	128.7	1.1834	µg/L	1.1834	ppb	10:29:21
3	Mn 257.610†	12186.6	11717.2	33.296	µg/L	33.296	ppb	10:29:21
3	Mo 202.031†	-19.6	-7.5	-0.2494	µg/L	-0.2494	ppb	10:29:41
3	Ni 231.604†	184.8	239.6	6.8638	µg/L	6.8638	ppb	10:29:41
3	P 214.914†	-54.9	11.0	8.9912	µg/L	8.9912	ppb	10:29:41
3	Pb 220.353†	100.2	-16.3	-3.4760	µg/L	-3.4760	ppb	10:29:41
3	S 181.975 Axial†	720.0	675.6	2124.1	µg/L	2124.1	ppb	10:29:41
3	Sb 206.836†	3.8	-0.8	-0.5956	µg/L	-0.5956	ppb	10:29:41
3	Se 196.026†	9.5	-2.5	-2.42	µg/L	-2.42	ppb	10:29:41
3	SiO2†	32668.7	29988.1	5419.2	µg/L	5419.2	ppb	10:29:21
3	Si 251.611†	89367.1	86941.5	2504.1	µg/L	2504.1	ppb	10:29:21
3	Sn 189.927†	-18.3	-18.6	-5.0170	µg/L	-5.0170	ppb	10:29:41
3	Ti 334.940†	1139.9	-434.9	0.2753	µg/L	0.2753	ppb	10:29:21
3	Tl 190.801†	-14.3	4.1	3.6541	µg/L	3.6541	ppb	10:29:41
3	U 367.007†	403.6	101.7	14.339	µg/L	14.339	ppb	10:29:21
3	V 292.402†	628.9	311.8	2.4396	µg/L	2.4396	ppb	10:29:21
3	Zn 213.857†	881.2	310.9	3.2946	µg/L	3.2946	ppb	10:29:41

Mean Data: 1202969093|1339673|5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1325266.6	102.44	%	0.796				0.78%
Sc RADIAL	23302.1	98.1	%	0.96				0.98%
Y 371.029	764014.3	100.03	%	0.690				0.69%
Ag 328.068†	152.4	0.3632	µg/L	0.88704	0.3632	ppb	0.88704	244.24%
Al 396.153Radial†	-6.7	-2.1465	µg/L	10.26264	-2.1465	ppb	10.26264	478.11%
As 188.979†	0.7	1.4076	µg/L	5.21720	1.4076	ppb	5.21720	370.63%
B 249.677†	10570.3	117.33	µg/L	3.720	117.33	ppb	3.720	3.17%
Ba 233.527†	8233.5	113.55	µg/L	2.992	113.55	ppb	2.992	2.64%
Be 313.107†	-924.4	-0.3906	µg/L	0.06330	-0.3906	ppb	0.06330	16.21%
Ca 317.933Radial†	37819.7	23837	µg/L	110.6	23837	ppb	110.6	0.46%
Cd 226.502†	8.3	-0.0894	µg/L	0.20251	-0.0894	ppb	0.20251	226.64%
Co 228.616†	44.4	1.3150	µg/L	0.27748	1.3150	ppb	0.27748	21.10%
Cr 267.716†	187.6	3.2736	µg/L	0.10247	3.2736	ppb	0.10247	3.13%
Cu 324.752†	-2.1	0.2992	µg/L	0.87946	0.2992	ppb	0.87946	293.94%
Fe 238.204 Radial†	534.1	1655.7	µg/L	22.80	1655.7	ppb	22.80	1.38%
K 766.490 Radial†	2284.0	3116.9	µg/L	27.41	3116.9	ppb	27.41	0.88%
Mg 279.077 IEC†	2046.8	13189	µg/L	94.5	13189	ppb	94.5	0.72%
Mn 257.610†	11426.0	32.459	µg/L	0.7769	32.459	ppb	0.7769	2.39%
Mo 202.031†	-12.0	-0.7554	µg/L	0.52875	-0.7554	ppb	0.52875	70.00%
Na 589.592 Radial†	16208.2	22537	µg/L	375.4	22537	ppb	375.4	1.67%

Ni 231.604†	215.5	6.1733	µg/L	0.66099	6.1733	ppb	0.66099	10.71%
P 214.914†	6.8	4.7407	µg/L	3.76502	4.7407	ppb	3.76502	79.42%
Pb 220.353†	-20.3	-4.3200	µg/L	0.96810	-4.3200	ppb	0.96810	22.41%
S 181.975 Axial†	671.6	2111.5	µg/L	11.24	2111.5	ppb	11.24	0.53%
Sb 206.836†	-0.4	-0.3111	µg/L	0.63926	-0.3111	ppb	0.63926	205.47%
Se 196.026†	-0.8	-0.115	µg/L	8.0877	-0.115	ppb	8.0877	>999.9%
SiO2†	29309.0	5296.4	µg/L	125.46	5296.4	ppb	125.46	2.37%
Si 251.611†	85255.4	2455.6	µg/L	48.92	2455.6	ppb	48.92	1.99%
Sn 189.927†	-19.2	-5.2574	µg/L	0.26687	-5.2574	ppb	0.26687	5.08%
Sr 421.552†	14442.0	166.57	µg/L	1.199	166.57	ppb	1.199	0.72%
Ti 334.940†	-525.6	0.1065	µg/L	0.14817	0.1065	ppb	0.14817	139.09%
Tl 190.801†	3.6	3.0551	µg/L	2.10785	3.0551	ppb	2.10785	69.00%
U 367.007†	109.3	16.576	µg/L	5.8925	16.576	ppb	5.8925	35.55%
V 292.402†	268.9	2.1335	µg/L	0.34421	2.1335	ppb	0.34421	16.13%
Zn 213.857†	302.7	3.2010	µg/L	0.11374	3.2010	ppb	0.11374	3.55%

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Sequence No.: 7 **Autosampler Location: 307**
Sample ID: 335304002|1339673|1 **Date Collected: 11/6/2013 10:29:49**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304002|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23081.9	23081.9	97.2	%			10:30:39
1	Al 396.153Radial†	-132.5	-28.3	0.8201	µg/L	0.8201	ppb	10:30:39
1	Ca 317.933Radial†	186056.3	191301.6	120570	µg/L	120570	ppb	10:30:19
1	Fe 238.204 Radial†	2757.4	2803.4	8691.3	µg/L	8691.3	ppb	10:30:39
1	K 766.490 Radial†	12117.2	11744.9	16028	µg/L	16028	ppb	10:30:19
1	Mg 279.077 IEC†	9973.8	10256.3	66087	µg/L	66087	ppb	10:30:39
1	Na 589.592 Radial†	80957.1	83323.9	115860	µg/L	115860	ppb	10:30:19
1	Sr 421.552†	71029.1	73036.1	842.40	µg/L	842.40	ppb	10:30:19
1	Sc 361.383	1279098.5	1279098.5	98.871	%			10:31:41
1	Y 371.029	730416.0	730416.0	95.635	%			10:31:41
1	Ag 328.068†	1352.9	693.2	1.3670	µg/L	1.3670	ppb	10:31:41
1	As 188.979†	-0.7	2.9	6.4176	µg/L	6.4176	ppb	10:32:01
1	B 249.677†	56836.8	57208.6	636.34	µg/L	636.34	ppb	10:31:41
1	Ba 233.527†	44029.6	44620.0	615.37	µg/L	615.37	ppb	10:31:41
1	Be 313.107†	-9289.4	-1467.5	-0.6200	µg/L	-0.6200	ppb	10:31:41
1	Cd 226.502†	-66.7	37.3	-0.5601	µg/L	-0.5601	ppb	10:32:01
1	Co 228.616†	38.0	139.9	4.2479	µg/L	4.2479	ppb	10:32:01
1	Cr 267.716†	902.0	798.9	13.912	µg/L	13.912	ppb	10:32:01
1	Cu 324.752†	3654.5	-481.0	-1.6516	µg/L	-1.6516	ppb	10:31:41
1	Mn 257.610†	57336.5	57799.1	164.23	µg/L	164.23	ppb	10:31:41
1	Mo 202.031†	-69.3	-58.4	-3.5865	µg/L	-3.5865	ppb	10:32:01
1	Ni 231.604†	1036.4	1107.2	31.720	µg/L	31.720	ppb	10:32:01
1	P 214.914†	17.7	82.6	72.811	µg/L	72.811	ppb	10:32:01
1	Pb 220.353†	102.8	-10.3	-2.5269	µg/L	-2.5269	ppb	10:32:01
1	S 181.975 Axial†	3549.7	3562.1	11201	µg/L	11201	ppb	10:32:01
1	Sb 206.836†	-1.0	-5.6	-3.8256	µg/L	-3.8256	ppb	10:32:01
1	Se 196.026†	16.7	5.1	11.2	µg/L	11.2	ppb	10:32:01
1	SiO2†	154842.3	154672.9	27951	µg/L	27951	ppb	10:31:41
1	Si 251.611†	447712.7	452432.3	13031	µg/L	13031	ppb	10:31:41
1	Sn 189.927†	-41.9	-43.1	-5.0048	µg/L	-5.0048	ppb	10:32:01
1	Ti 334.940†	-1333.4	-2897.5	0.1342	µg/L	0.1342	ppb	10:31:41
1	Tl 190.801†	-14.9	3.0	-2.6278	µg/L	-2.6278	ppb	10:32:01
1	U 367.007†	629.3	343.8	23.136	µg/L	23.136	ppb	10:31:41
1	V 292.402†	1635.5	1351.4	10.739	µg/L	10.739	ppb	10:31:41
1	Zn 213.857†	1122.9	585.5	4.4828	µg/L	4.4828	ppb	10:32:01
2	Sc RADIAL	22591.2	22591.2	95.1	%			10:31:01
2	Al 396.153Radial†	-123.4	-21.7	14.994	µg/L	14.994	ppb	10:31:01
2	Ca 317.933Radial†	182994.0	192239.9	121170	µg/L	121170	ppb	10:30:41
2	Fe 238.204 Radial†	2715.8	2821.3	8746.7	µg/L	8746.7	ppb	10:31:01
2	K 766.490 Radial†	11860.7	11746.0	16030	µg/L	16030	ppb	10:30:41
2	Mg 279.077 IEC†	9779.8	10275.2	66209	µg/L	66209	ppb	10:31:01
2	Na 589.592 Radial†	79258.4	83347.3	115890	µg/L	115890	ppb	10:30:41
2	Sr 421.552†	70395.4	73957.1	853.03	µg/L	853.03	ppb	10:30:41
2	Sc 361.383	1283662.2	1283662.2	99.224	%			10:32:04
2	Y 371.029	732807.0	732807.0	95.948	%			10:32:04
2	Ag 328.068†	1136.6	470.3	-0.1396	µg/L	-0.1396	ppb	10:32:04
2	As 188.979†	3.0	6.7	13.522	µg/L	13.522	ppb	10:32:24
2	B 249.677†	56809.3	56976.5	633.39	µg/L	633.39	ppb	10:32:04
2	Ba 233.527†	44327.6	44762.1	617.33	µg/L	617.33	ppb	10:32:04
2	Be 313.107†	-9369.8	-1515.1	-0.6401	µg/L	-0.6401	ppb	10:32:04
2	Cd 226.502†	-69.4	34.8	-0.6046	µg/L	-0.6046	ppb	10:32:24
2	Co 228.616†	16.6	118.1	3.6277	µg/L	3.6277	ppb	10:32:24
2	Cr 267.716†	901.2	794.8	13.837	µg/L	13.837	ppb	10:32:24
2	Cu 324.752†	3600.2	-548.9	-2.1006	µg/L	-2.1006	ppb	10:32:04
2	Mn 257.610†	57609.1	57867.6	164.42	µg/L	164.42	ppb	10:32:04
2	Mo 202.031†	-69.9	-58.8	-3.6233	µg/L	-3.6233	ppb	10:32:24
2	Ni 231.604†	1044.6	1111.8	31.849	µg/L	31.849	ppb	10:32:24
2	P 214.914†	31.2	96.1	86.495	µg/L	86.495	ppb	10:32:24
2	Pb 220.353†	84.7	-28.8	-6.3914	µg/L	-6.3914	ppb	10:32:24

2	S 181.975 Axial†	3551.2	3550.9	11165	µg/L	11165	ppb	10:32:24
2	Sb 206.836†	-1.1	-5.6	-3.8480	µg/L	-3.8480	ppb	10:32:24
2	Se 196.026†	19.8	8.2	15.2	µg/L	15.2	ppb	10:32:24
2	SiO2†	155760.3	155041.3	28017	µg/L	28017	ppb	10:32:04
2	Si 251.611†	450270.5	453400.2	13059	µg/L	13059	ppb	10:32:04
2	Sn 189.927†	-51.3	-52.4	-8.6537	µg/L	-8.6537	ppb	10:32:24
2	Ti 334.940†	-1409.1	-2969.0	0.0294	µg/L	0.0294	ppb	10:32:04
2	Tl 190.801†	-14.7	3.1	-2.4366	µg/L	-2.4366	ppb	10:32:24
2	U 367.007†	643.0	355.3	25.972	µg/L	25.972	ppb	10:32:04
2	V 292.402†	1716.5	1427.1	11.277	µg/L	11.277	ppb	10:32:04
2	Zn 213.857†	1132.7	591.3	4.5452	µg/L	4.5452	ppb	10:32:24
3	Sc RADIAL	21878.5	21878.5	92.1	%			10:31:23
3	Al 396.153Radial†	-141.2	-45.2	-34.943	µg/L	-34.943	ppb	10:31:23
3	Ca 317.933Radial†	175314.3	190170.6	119860	µg/L	119860	ppb	10:31:03
3	Fe 238.204 Radial†	2609.9	2799.3	8678.6	µg/L	8678.6	ppb	10:31:23
3	K 766.490 Radial†	11569.0	11835.5	16153	µg/L	16153	ppb	10:31:03
3	Mg 279.077 IEC†	9427.2	10227.4	65901	µg/L	65901	ppb	10:31:23
3	Na 589.592 Radial†	76031.5	82558.9	114790	µg/L	114790	ppb	10:31:03
3	Sr 421.552†	67922.0	73682.9	849.87	µg/L	849.87	ppb	10:31:03
3	Sc 361.383	1297929.2	1297929.2	100.33	%			10:32:26
3	Y 371.029	741247.9	741247.9	97.053	%			10:32:26
3	Ag 328.068†	1239.8	560.5	0.5075	µg/L	0.5075	ppb	10:32:26
3	As 188.979†	6.1	9.7	19.235	µg/L	19.235	ppb	10:32:46
3	B 249.677†	57771.6	57306.3	637.49	µg/L	637.49	ppb	10:32:26
3	Ba 233.527†	44829.4	44771.2	617.46	µg/L	617.46	ppb	10:32:26
3	Be 313.107†	-9141.9	-1184.1	-0.5003	µg/L	-0.5003	ppb	10:32:26
3	Cd 226.502†	-80.9	24.1	-0.7553	µg/L	-0.7553	ppb	10:32:46
3	Co 228.616†	25.3	126.6	3.8725	µg/L	3.8725	ppb	10:32:46
3	Cr 267.716†	910.1	793.7	13.823	µg/L	13.823	ppb	10:32:46
3	Cu 324.752†	3621.6	-567.5	-2.2415	µg/L	-2.2415	ppb	10:32:26
3	Mn 257.610†	58333.6	57951.6	164.67	µg/L	164.67	ppb	10:32:26
3	Mo 202.031†	-62.5	-50.6	-2.7278	µg/L	-2.7278	ppb	10:32:46
3	Ni 231.604†	1060.8	1116.4	31.982	µg/L	31.982	ppb	10:32:46
3	P 214.914†	25.8	90.3	80.720	µg/L	80.720	ppb	10:32:46
3	Pb 220.353†	100.0	-14.6	-3.4175	µg/L	-3.4175	ppb	10:32:46
3	S 181.975 Axial†	3558.6	3518.9	11065	µg/L	11065	ppb	10:32:46
3	Sb 206.836†	3.5	-1.1	-1.0083	µg/L	-1.0083	ppb	10:32:46
3	Se 196.026†	18.0	6.1	12.6	µg/L	12.6	ppb	10:32:46
3	SiO2†	157679.3	155228.6	28051	µg/L	28051	ppb	10:32:26
3	Si 251.611†	455110.9	453236.6	13054	µg/L	13054	ppb	10:32:26
3	Sn 189.927†	-36.9	-37.5	-2.8532	µg/L	-2.8532	ppb	10:32:46
3	Ti 334.940†	-1608.3	-3151.9	-0.3666	µg/L	-0.3666	ppb	10:32:26
3	Tl 190.801†	-17.2	0.9	-5.1237	µg/L	-5.1237	ppb	10:32:46
3	U 367.007†	616.7	321.9	17.188	µg/L	17.188	ppb	10:32:26
3	V 292.402†	1757.0	1448.5	11.422	µg/L	11.422	ppb	10:32:26
3	Zn 213.857†	1135.4	581.4	4.4373	µg/L	4.4373	ppb	10:32:46

Mean Data: 335304002|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1286896.7	99.474	%	0.7593				0.76%
Sc RADIAL	22517.2	94.8	%	2.55				2.69%
Y 371.029	734823.6	96.212	%	0.7451				0.77%
Ag 328.068†	574.7	0.5783	µg/L	0.75576	0.5783	ppb	0.75576	130.69%
Al 396.153Radial†	-31.8	-6.3763	µg/L	25.73456	-6.3763	ppb	25.73456	403.59%
As 188.979†	6.5	13.058	µg/L	6.4213	13.058	ppb	6.4213	49.17%
B 249.677†	57163.8	635.74	µg/L	2.116	635.74	ppb	2.116	0.33%
Ba 233.527†	44717.8	616.72	µg/L	1.170	616.72	ppb	1.170	0.19%
Be 313.107†	-1388.9	-0.5868	µg/L	0.07560	-0.5868	ppb	0.07560	12.88%
Ca 317.933Radial†	191237.3	120530	µg/L	653.1	120530	ppb	653.1	0.54%
Cd 226.502†	32.1	-0.6400	µg/L	0.10229	-0.6400	ppb	0.10229	15.98%
Co 228.616†	128.2	3.9160	µg/L	0.31242	3.9160	ppb	0.31242	7.98%
Cr 267.716†	795.8	13.858	µg/L	0.0479	13.858	ppb	0.0479	0.35%
Cu 324.752†	-532.5	-1.9979	µg/L	0.30808	-1.9979	ppb	0.30808	15.42%
Fe 238.204 Radial†	2808.0	8705.6	µg/L	36.23	8705.6	ppb	36.23	0.42%
K 766.490 Radial†	11775.4	16070	µg/L	71.4	16070	ppb	71.4	0.44%
Mg 279.077 IEC†	10253.0	66066	µg/L	155.0	66066	ppb	155.0	0.23%
Mn 257.610†	57872.8	164.44	µg/L	0.223	164.44	ppb	0.223	0.14%
Mo 202.031†	-55.9	-3.3125	µg/L	0.50675	-3.3125	ppb	0.50675	15.30%
Na 589.592 Radial†	83076.7	115510	µg/L	623.7	115510	ppb	623.7	0.54%

Ni 231.604†	1111.8	31.850	µg/L	0.1312	31.850	ppb	0.1312	0.41%
P 214.914†	89.7	80.009	µg/L	6.8695	80.009	ppb	6.8695	8.59%
Pb 220.353†	-17.9	-4.1119	µg/L	2.02370	-4.1119	ppb	2.02370	49.22%
S 181.975 Axial†	3544.0	11144	µg/L	70.5	11144	ppb	70.5	0.63%
Sb 206.836†	-4.1	-2.8940	µg/L	1.63312	-2.8940	ppb	1.63312	56.43%
Se 196.026†	6.5	13.0	µg/L	2.07	13.0	ppb	2.07	15.93%
SiO2†	154980.9	28007	µg/L	51.1	28007	ppb	51.1	0.18%
Si 251.611†	453023.0	13048	µg/L	14.9	13048	ppb	14.9	0.11%
Sn 189.927†	-44.4	-5.5039	µg/L	2.93229	-5.5039	ppb	2.93229	53.28%
Sr 421.552†	73558.7	848.43	µg/L	5.459	848.43	ppb	5.459	0.64%
Ti 334.940†	-3006.1	-0.0677	µg/L	0.26413	-0.0677	ppb	0.26413	390.17%
Tl 190.801†	2.3	-3.3960	µg/L	1.49928	-3.3960	ppb	1.49928	44.15%
U 367.007†	340.3	22.099	µg/L	4.4834	22.099	ppb	4.4834	20.29%
V 292.402†	1409.0	11.146	µg/L	0.3598	11.146	ppb	0.3598	3.23%
Zn 213.857†	586.1	4.4884	µg/L	0.05415	4.4884	ppb	0.05415	1.21%

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Sequence No.: 8 **Autosampler Location: 308**
Sample ID: 335304003|1339673|1 **Date Collected: 11/6/2013 10:32:54**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304003|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23187.3	23187.3	97.7	%			10:33:26
1	Al 396.153Radial†	-127.3	-22.3	97.389	µg/L	97.389	ppb	10:33:26
1	Ca 317.933Radial†	439114.6	449552.0	283360	µg/L	283360	ppb	10:33:24
1	Fe 238.204 Radial†	11211.0	11446.6	35488	µg/L	35488	ppb	10:33:26
1	K 766.490 Radial†	21753.6	21555.4	29375	µg/L	29375	ppb	10:33:26
1	Mg 279.077 IEC†	12829.1	13133.3	84629	µg/L	84629	ppb	10:33:26
1	Na 589.592 Radial†	249442.7	255467.2	355210	µg/L	355210	ppb	10:33:24
1	Sr 421.552†	79910.4	81797.9	942.30	µg/L	942.30	ppb	10:33:24
1	Sc 361.383	1257844.9	1257844.9	97.228	%			10:33:52
1	Y 371.029	714507.9	714507.9	93.552	%			10:33:52
1	Ag 328.068†	1874.3	1252.6	0.4768	µg/L	0.4768	ppb	10:33:52
1	As 188.979†	-8.2	-4.8	-5.5576	µg/L	-5.5576	ppb	10:34:12
1	B 249.677†	143510.3	147324.3	1594.1	µg/L	1594.1	ppb	10:33:52
1	Ba 233.527†	171314.6	176286.3	2431.1	µg/L	2431.1	ppb	10:33:52
1	Be 313.107†	-9479.7	-1821.9	-0.7697	µg/L	-0.7697	ppb	10:33:52
1	Cd 226.502†	151.1	260.2	-0.7491	µg/L	-0.7491	ppb	10:34:12
1	Co 228.616†	83.2	187.0	6.3321	µg/L	6.3321	ppb	10:34:12
1	Cr 267.716†	222.2	115.1	2.1702	µg/L	2.1702	ppb	10:34:12
1	Cu 324.752†	3117.6	-970.8	-1.0418	µg/L	-1.0418	ppb	10:33:52
1	Mn 257.610†	185127.9	190213.5	545.19	µg/L	545.19	ppb	10:33:52
1	Mo 202.031†	-85.3	-76.0	-3.9843	µg/L	-3.9843	ppb	10:34:12
1	Ni 231.604†	472.3	544.8	15.443	µg/L	15.443	ppb	10:34:12
1	P 214.914†	612.3	694.5	661.64	µg/L	661.64	ppb	10:34:12
1	Pb 220.353†	97.8	-13.6	-4.2167	µg/L	-4.2167	ppb	10:34:12
1	S 181.975 Axial†	786.0	780.3	2421.7	µg/L	2421.7	ppb	10:34:12
1	Sb 206.836†	-2.2	-6.8	-4.8686	µg/L	-4.8686	ppb	10:34:12
1	Se 196.026†	4.3	-7.4	6.30	µg/L	6.30	ppb	10:34:12
1	SiO2†	201631.3	205442.1	37125	µg/L	37125	ppb	10:33:52
1	Si 251.611†	584881.6	601163.0	17318	µg/L	17318	ppb	10:33:52
1	Sn 189.927†	-66.1	-68.7	1.6376	µg/L	1.6376	ppb	10:34:12
1	Ti 334.940†	-6274.2	-8001.9	-1.3171	µg/L	-1.3171	ppb	10:33:52
1	Tl 190.801†	-8.1	9.6	-3.2432	µg/L	-3.2432	ppb	10:34:12
1	U 367.007†	1146.8	886.8	4.4456	µg/L	4.4456	ppb	10:33:52
1	V 292.402†	-396.5	-710.6	0.3916	µg/L	0.3916	ppb	10:33:52
1	Zn 213.857†	1420.7	911.0	5.0377	µg/L	5.0377	ppb	10:34:12
2	Sc RADIAL	22751.0	22751.0	95.8	%			10:33:30
2	Al 396.153Radial†	-174.6	-74.3	-7.9518	µg/L	-7.9518	ppb	10:33:30
2	Ca 317.933Radial†	441704.3	460877.4	290500	µg/L	290500	ppb	10:33:28
2	Fe 238.204 Radial†	10976.1	11421.5	35410	µg/L	35410	ppb	10:33:30
2	K 766.490 Radial†	21271.0	21478.9	29266	µg/L	29266	ppb	10:33:30
2	Mg 279.077 IEC†	12590.4	13136.1	84648	µg/L	84648	ppb	10:33:30
2	Na 589.592 Radial†	252318.5	263366.7	366200	µg/L	366200	ppb	10:33:28
2	Sr 421.552†	80368.6	83845.3	965.89	µg/L	965.89	ppb	10:33:28
2	Sc 361.383	1251809.5	1251809.5	96.762	%			10:34:15
2	Y 371.029	711715.0	711715.0	93.186	%			10:34:15
2	Ag 328.068†	1943.1	1333.0	0.8437	µg/L	0.8437	ppb	10:34:15
2	As 188.979†	-0.3	3.3	9.7087	µg/L	9.7087	ppb	10:34:35
2	B 249.677†	142915.0	147420.7	1595.5	µg/L	1595.5	ppb	10:34:15
2	Ba 233.527†	171074.5	176887.6	2439.4	µg/L	2439.4	ppb	10:34:15
2	Be 313.107†	-9317.3	-1701.1	-0.7187	µg/L	-0.7187	ppb	10:34:15
2	Cd 226.502†	148.4	258.1	-0.7693	µg/L	-0.7693	ppb	10:34:35
2	Co 228.616†	76.4	180.4	6.1489	µg/L	6.1489	ppb	10:34:35
2	Cr 267.716†	239.1	133.6	2.5115	µg/L	2.5115	ppb	10:34:35
2	Cu 324.752†	3026.9	-1049.1	-1.5892	µg/L	-1.5892	ppb	10:34:15
2	Mn 257.610†	184259.3	190233.9	545.24	µg/L	545.24	ppb	10:34:15
2	Mo 202.031†	-83.0	-74.1	-3.7756	µg/L	-3.7756	ppb	10:34:35
2	Ni 231.604†	491.1	566.5	16.067	µg/L	16.067	ppb	10:34:35
2	P 214.914†	612.3	697.4	664.73	µg/L	664.73	ppb	10:34:35
2	Pb 220.353†	85.3	-26.1	-6.7948	µg/L	-6.7948	ppb	10:34:35

2	S 181.975 Axial†	792.6	791.0	2454.7	µg/L	2454.7	ppb	10:34:35
2	Sb 206.836†	0.4	-4.1	-3.1923	µg/L	-3.1923	ppb	10:34:35
2	Se 196.026†	3.4	-8.3	5.18	µg/L	5.18	ppb	10:34:35
2	SiO2†	200714.5	205494.4	37134	µg/L	37134	ppb	10:34:15
2	Si 251.611†	581995.8	601080.9	17315	µg/L	17315	ppb	10:34:15
2	Sn 189.927†	-59.5	-62.2	4.9236	µg/L	4.9236	ppb	10:34:35
2	Ti 334.940†	-6068.6	-7820.6	-0.6148	µg/L	-0.6148	ppb	10:34:15
2	Tl 190.801†	-11.6	6.0	-7.9946	µg/L	-7.9946	ppb	10:34:35
2	U 367.007†	1084.9	828.5	-13.098	µg/L	-13.098	ppb	10:34:15
2	V 292.402†	-420.0	-736.8	0.1901	µg/L	0.1901	ppb	10:34:15
2	Zn 213.857†	1418.8	916.1	5.1067	µg/L	5.1067	ppb	10:34:35
3	Sc RADIAL	22815.8	22815.8	96.1	%			10:33:34
3	Al 396.153Radial†	-155.0	-53.3	31.629	µg/L	31.629	ppb	10:33:34
3	Ca 317.933Radial†	429604.6	446977.7	281740	µg/L	281740	ppb	10:33:32
3	Fe 238.204 Radial†	11041.1	11456.7	35519	µg/L	35519	ppb	10:33:34
3	K 766.490 Radial†	21262.1	21406.7	29170	µg/L	29170	ppb	10:33:34
3	Mg 279.077 IEC†	12611.9	13121.2	84552	µg/L	84552	ppb	10:33:34
3	Na 589.592 Radial†	247459.0	257562.3	358130	µg/L	358130	ppb	10:33:32
3	Sr 421.552†	78701.7	81872.6	943.18	µg/L	943.18	ppb	10:33:32
3	Sc 361.383	1253560.0	1253560.0	96.897	%			10:34:37
3	Y 371.029	712999.9	712999.9	93.355	%			10:34:37
3	Ag 328.068†	1853.3	1237.5	0.4183	µg/L	0.4183	ppb	10:34:37
3	As 188.979†	-9.0	-5.6	-7.1695	µg/L	-7.1695	ppb	10:34:57
3	B 249.677†	143254.0	147564.4	1596.9	µg/L	1596.9	ppb	10:34:37
3	Ba 233.527†	171152.9	176721.7	2437.1	µg/L	2437.1	ppb	10:34:37
3	Be 313.107†	-9339.3	-1710.4	-0.7226	µg/L	-0.7226	ppb	10:34:37
3	Cd 226.502†	122.3	231.0	-1.1882	µg/L	-1.1882	ppb	10:34:57
3	Co 228.616†	74.9	178.7	6.1005	µg/L	6.1005	ppb	10:34:57
3	Cr 267.716†	199.4	92.4	1.7636	µg/L	1.7636	ppb	10:34:57
3	Cu 324.752†	3096.6	-981.5	-1.1113	µg/L	-1.1113	ppb	10:34:37
3	Mn 257.610†	184643.0	190364.0	545.62	µg/L	545.62	ppb	10:34:37
3	Mo 202.031†	-78.3	-69.2	-3.2223	µg/L	-3.2223	ppb	10:34:57
3	Ni 231.604†	492.0	566.8	16.073	µg/L	16.073	ppb	10:34:57
3	P 214.914†	613.3	697.6	664.74	µg/L	664.74	ppb	10:34:57
3	Pb 220.353†	84.2	-27.3	-7.0698	µg/L	-7.0698	ppb	10:34:57
3	S 181.975 Axial†	787.0	784.1	2433.8	µg/L	2433.8	ppb	10:34:57
3	Sb 206.836†	-3.2	-7.9	-5.5465	µg/L	-5.5465	ppb	10:34:57
3	Se 196.026†	9.9	-1.6	13.9	µg/L	13.9	ppb	10:34:57
3	SiO2†	201014.1	205513.9	37138	µg/L	37138	ppb	10:34:37
3	Si 251.611†	582772.9	601043.0	17314	µg/L	17314	ppb	10:34:37
3	Sn 189.927†	-67.0	-69.9	1.0126	µg/L	1.0126	ppb	10:34:57
3	Ti 334.940†	-6280.4	-8030.4	-1.4499	µg/L	-1.4499	ppb	10:34:37
3	Tl 190.801†	-18.7	-1.3	-16.291	µg/L	-16.291	ppb	10:34:57
3	U 367.007†	1137.6	881.3	3.0720	µg/L	3.0720	ppb	10:34:37
3	V 292.402†	-462.1	-779.7	-0.0788	µg/L	-0.0788	ppb	10:34:37
3	Zn 213.857†	1389.0	883.3	4.6901	µg/L	4.6901	ppb	10:34:57

Mean Data: 335304003|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1254404.8	96.962	%	0.2400				0.25%
Sc RADIAL	22918.0	96.5	%	0.99				1.03%
Y 371.029	713074.3	93.364	%	0.1830				0.20%
Ag 328.068†	1274.3	0.5796	µg/L	0.23060	0.5796	ppb	0.23060	39.79%
Al 396.153Radial†	-50.0	40.356	µg/L	53.2098	40.356	ppb	53.2098	131.85%
As 188.979†	-2.4	-1.0061	µg/L	9.31426	-1.0061	ppb	9.31426	925.75%
B 249.677†	147436.5	1595.5	µg/L	1.40	1595.5	ppb	1.40	0.09%
Ba 233.527†	176631.9	2435.9	µg/L	4.28	2435.9	ppb	4.28	0.18%
Be 313.107†	-1744.5	-0.7370	µg/L	0.02840	-0.7370	ppb	0.02840	3.85%
Ca 317.933Radial†	452469.1	285200	µg/L	4661.4	285200	ppb	4661.4	1.63%
Cd 226.502†	249.8	-0.9022	µg/L	0.24792	-0.9022	ppb	0.24792	27.48%
Co 228.616†	182.0	6.1938	µg/L	0.12215	6.1938	ppb	0.12215	1.97%
Cr 267.716†	113.7	2.1485	µg/L	0.37442	2.1485	ppb	0.37442	17.43%
Cu 324.752†	-1000.5	-1.2474	µg/L	0.29798	-1.2474	ppb	0.29798	23.89%
Fe 238.204 Radial†	11441.6	35473	µg/L	56.1	35473	ppb	56.1	0.16%
K 766.490 Radial†	21480.4	29270	µg/L	102.4	29270	ppb	102.4	0.35%
Mg 279.077 IEC†	13130.2	84610	µg/L	50.9	84610	ppb	50.9	0.06%
Mn 257.610†	190270.5	545.35	µg/L	0.237	545.35	ppb	0.237	0.04%
Mo 202.031†	-73.1	-3.6607	µg/L	0.39378	-3.6607	ppb	0.39378	10.76%
Na 589.592 Radial†	258798.7	359850	µg/L	5690.1	359850	ppb	5690.1	1.58%

Ni 231.604†	559.4	15.861	µg/L	0.3621	15.861	ppb	0.3621	2.28%
P 214.914†	696.5	663.70	µg/L	1.783	663.70	ppb	1.783	0.27%
Pb 220.353†	-22.3	-6.0271	µg/L	1.57385	-6.0271	ppb	1.57385	26.11%
S 181.975 Axial†	785.2	2436.7	µg/L	16.68	2436.7	ppb	16.68	0.68%
Sb 206.836†	-6.2	-4.5358	µg/L	1.21189	-4.5358	ppb	1.21189	26.72%
Se 196.026†	-5.8	8.45	µg/L	4.723	8.45	ppb	4.723	55.91%
SiO2†	205483.5	37132	µg/L	6.7	37132	ppb	6.7	0.02%
Si 251.611†	601095.6	17316	µg/L	1.8	17316	ppb	1.8	0.01%
Sn 189.927†	-66.9	2.5246	µg/L	2.10096	2.5246	ppb	2.10096	83.22%
Sr 421.552†	82505.3	950.46	µg/L	13.371	950.46	ppb	13.371	1.41%
Ti 334.940†	-7951.0	-1.1273	µg/L	0.44872	-1.1273	ppb	0.44872	39.81%
Tl 190.801†	4.8	-9.1762	µg/L	6.60369	-9.1762	ppb	6.60369	71.97%
U 367.007†	865.5	-1.8600	µg/L	9.75622	-1.8600	ppb	9.75622	524.53%
V 292.402†	-742.4	0.1676	µg/L	0.23600	0.1676	ppb	0.23600	140.79%
Zn 213.857†	903.4	4.9448	µg/L	0.22327	4.9448	ppb	0.22327	4.52%

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Sequence No.: 9 **Autosampler Location: 309**
Sample ID: 335304004|1339673|1 **Date Collected: 11/6/2013 10:35:06**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304004|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23012.3	23012.3	96.9	%			10:35:38
1	Al 396.153Radial†	-162.6	-59.7	19.016	µg/L	19.016	ppb	10:35:38
1	Ca 317.933Radial†	435946.1	449702.0	283460	µg/L	283460	ppb	10:35:36
1	Fe 238.204 Radial†	11224.7	11548.0	35803	µg/L	35803	ppb	10:35:38
1	K 766.490 Radial†	21731.9	21702.4	29574	µg/L	29574	ppb	10:35:38
1	Mg 279.077 IEC†	12896.7	13303.0	85723	µg/L	85723	ppb	10:35:38
1	Na 589.592 Radial†	251839.3	259882.2	361350	µg/L	361350	ppb	10:35:36
1	Sr 421.552†	79693.9	82196.8	946.91	µg/L	946.91	ppb	10:35:36
1	Sc 361.383	1256242.1	1256242.1	97.104	%			10:36:04
1	Y 371.029	713341.6	713341.6	93.399	%			10:36:04
1	Ag 328.068†	1887.0	1268.1	0.5830	µg/L	0.5830	ppb	10:36:04
1	As 188.979†	-2.1	1.4	6.1766	µg/L	6.1766	ppb	10:36:24
1	B 249.677†	145200.9	149253.7	1615.6	µg/L	1615.6	ppb	10:36:04
1	Ba 233.527†	173443.4	178703.4	2464.4	µg/L	2464.4	ppb	10:36:04
1	Be 313.107†	-9269.3	-1617.7	-0.6835	µg/L	-0.6835	ppb	10:36:04
1	Cd 226.502†	127.5	236.0	-1.1500	µg/L	-1.1500	ppb	10:36:24
1	Co 228.616†	89.1	193.2	6.5279	µg/L	6.5279	ppb	10:36:24
1	Cr 267.716†	208.0	100.8	1.9159	µg/L	1.9159	ppb	10:36:24
1	Cu 324.752†	3049.3	-1037.0	-1.4432	µg/L	-1.4432	ppb	10:36:04
1	Mn 257.610†	186348.1	191713.0	549.47	µg/L	549.47	ppb	10:36:04
1	Mo 202.031†	-74.9	-65.5	-2.7537	µg/L	-2.7537	ppb	10:36:24
1	Ni 231.604†	503.4	577.4	16.376	µg/L	16.376	ppb	10:36:24
1	P 214.914†	598.7	681.2	647.63	µg/L	647.63	ppb	10:36:24
1	Pb 220.353†	105.1	-6.0	-2.6377	µg/L	-2.6377	ppb	10:36:24
1	S 181.975 Axial†	781.2	776.4	2409.4	µg/L	2409.4	ppb	10:36:24
1	Sb 206.836†	2.3	-2.1	-1.9662	µg/L	-1.9662	ppb	10:36:24
1	Se 196.026†	5.9	-5.8	8.60	µg/L	8.60	ppb	10:36:24
1	SiO2†	203342.7	207469.0	37491	µg/L	37491	ppb	10:36:04
1	Si 251.611†	589668.6	606860.3	17482	µg/L	17482	ppb	10:36:04
1	Sn 189.927†	-59.6	-62.1	4.2867	µg/L	4.2867	ppb	10:36:24
1	Ti 334.940†	-6545.8	-8289.9	-1.8488	µg/L	-1.8488	ppb	10:36:04
1	Tl 190.801†	-14.2	3.4	-10.813	µg/L	-10.813	ppb	10:36:24
1	U 367.007†	1119.2	859.8	-4.9045	µg/L	-4.9045	ppb	10:36:04
1	V 292.402†	-394.4	-709.0	0.4592	µg/L	0.4592	ppb	10:36:04
1	Zn 213.857†	1362.9	853.3	4.2575	µg/L	4.2575	ppb	10:36:24
2	Sc RADIAL	22420.0	22420.0	94.4	%			10:35:43
2	Al 396.153Radial†	-172.8	-75.0	-9.5509	µg/L	-9.5509	ppb	10:35:43
2	Ca 317.933Radial†	435317.5	460919.5	290530	µg/L	290530	ppb	10:35:40
2	Fe 238.204 Radial†	10882.1	11491.2	35626	µg/L	35626	ppb	10:35:43
2	K 766.490 Radial†	21252.1	21786.6	29684	µg/L	29684	ppb	10:35:43
2	Mg 279.077 IEC†	12559.7	13297.6	85689	µg/L	85689	ppb	10:35:43
2	Na 589.592 Radial†	252581.1	267532.5	371990	µg/L	371990	ppb	10:35:40
2	Sr 421.552†	79781.9	84462.4	973.01	µg/L	973.01	ppb	10:35:40
2	Sc 361.383	1191010.8	1191010.8	92.062	%			10:36:27
2	Y 371.029	676804.8	676804.8	88.616	%			10:36:27
2	Ag 328.068†	1948.1	1440.9	1.5517	µg/L	1.5517	ppb	10:36:27
2	As 188.979†	1.3	5.1	12.994	µg/L	12.994	ppb	10:36:47
2	B 249.677†	137079.5	148621.8	1608.8	µg/L	1608.8	ppb	10:36:27
2	Ba 233.527†	163404.4	177581.5	2449.0	µg/L	2449.0	ppb	10:36:27
2	Be 313.107†	-9310.6	-2185.4	-0.9233	µg/L	-0.9233	ppb	10:36:27
2	Cd 226.502†	146.0	263.3	-0.7195	µg/L	-0.7195	ppb	10:36:47
2	Co 228.616†	94.7	204.4	6.8367	µg/L	6.8367	ppb	10:36:47
2	Cr 267.716†	219.3	124.7	2.3398	µg/L	2.3398	ppb	10:36:47
2	Cu 324.752†	3106.0	-803.4	0.1119	µg/L	0.1119	ppb	10:36:27
2	Mn 257.610†	175655.2	190608.7	546.29	µg/L	546.29	ppb	10:36:27
2	Mo 202.031†	-84.1	-79.6	-4.3445	µg/L	-4.3445	ppb	10:36:47
2	Ni 231.604†	486.9	587.8	16.677	µg/L	16.677	ppb	10:36:47
2	P 214.914†	585.7	700.9	667.97	µg/L	667.97	ppb	10:36:47
2	Pb 220.353†	98.2	-7.6	-2.9674	µg/L	-2.9674	ppb	10:36:47

2	S 181.975 Axial†	778.7	817.8	2538.8	µg/L	2538.8	ppb	10:36:47
2	Sb 206.836†	0.4	-4.1	-3.2293	µg/L	-3.2293	ppb	10:36:47
2	Se 196.026†	8.0	-3.1	12.0	µg/L	12.0	ppb	10:36:47
2	SiO2†	192117.7	206745.3	37361	µg/L	37361	ppb	10:36:27
2	Si 251.611†	557460.6	605134.3	17432	µg/L	17432	ppb	10:36:27
2	Sn 189.927†	-61.7	-67.8	2.7146	µg/L	2.7146	ppb	10:36:47
2	Ti 334.940†	-6046.1	-8116.3	-1.1742	µg/L	-1.1742	ppb	10:36:27
2	Tl 190.801†	-14.4	2.3	-12.409	µg/L	-12.409	ppb	10:36:47
2	U 367.007†	1072.9	872.7	-1.7778	µg/L	-1.7778	ppb	10:36:27
2	V 292.402†	-365.9	-700.2	0.4776	µg/L	0.4776	ppb	10:36:27
2	Zn 213.857†	1368.1	935.8	5.2953	µg/L	5.2953	ppb	10:36:47
3	Sc RADIAL	22543.6	22543.6	94.9	%			10:35:47
3	Al 396.153Radial†	-127.0	-25.8	91.073	µg/L	91.073	ppb	10:35:47
3	Ca 317.933Radial†	429711.9	452487.8	285210	µg/L	285210	ppb	10:35:45
3	Fe 238.204 Radial†	10900.3	11447.1	35490	µg/L	35490	ppb	10:35:47
3	K 766.490 Radial†	21267.4	21679.4	29540	µg/L	29540	ppb	10:35:47
3	Mg 279.077 IEC†	12557.4	13222.3	85203	µg/L	85203	ppb	10:35:47
3	Na 589.592 Radial†	250460.3	263832.0	366840	µg/L	366840	ppb	10:35:45
3	Sr 421.552†	79168.6	83353.1	960.25	µg/L	960.25	ppb	10:35:45
3	Sc 361.383	1259901.1	1259901.1	97.387	%			10:36:49
3	Y 371.029	715361.7	715361.7	93.664	%			10:36:49
3	Ag 328.068†	1871.4	1246.4	0.3929	µg/L	0.3929	ppb	10:36:49
3	As 188.979†	-2.4	1.2	5.7497	µg/L	5.7497	ppb	10:37:09
3	B 249.677†	146007.9	149648.1	1621.4	µg/L	1621.4	ppb	10:36:49
3	Ba 233.527†	173803.7	178554.6	2462.4	µg/L	2462.4	ppb	10:36:49
3	Be 313.107†	-9496.1	-1822.9	-0.7702	µg/L	-0.7702	ppb	10:36:49
3	Cd 226.502†	165.2	274.4	-0.5356	µg/L	-0.5356	ppb	10:37:09
3	Co 228.616†	102.7	206.9	6.9210	µg/L	6.9210	ppb	10:37:09
3	Cr 267.716†	230.7	123.5	2.3147	µg/L	2.3147	ppb	10:37:09
3	Cu 324.752†	3061.7	-1033.4	-1.4621	µg/L	-1.4621	ppb	10:36:49
3	Mn 257.610†	186745.8	191564.1	549.05	µg/L	549.05	ppb	10:36:49
3	Mo 202.031†	-76.2	-66.6	-2.9089	µg/L	-2.9089	ppb	10:37:09
3	Ni 231.604†	518.8	591.7	16.789	µg/L	16.789	ppb	10:37:09
3	P 214.914†	614.4	695.6	662.75	µg/L	662.75	ppb	10:37:09
3	Pb 220.353†	105.2	-6.3	-2.6795	µg/L	-2.6795	ppb	10:37:09
3	S 181.975 Axial†	798.0	791.3	2456.1	µg/L	2456.1	ppb	10:37:09
3	Sb 206.836†	-2.2	-6.8	-4.8731	µg/L	-4.8731	ppb	10:37:09
3	Se 196.026†	12.4	0.9	17.1	µg/L	17.1	ppb	10:37:09
3	SiO2†	204265.7	207808.6	37553	µg/L	37553	ppb	10:36:49
3	Si 251.611†	591704.4	607187.1	17491	µg/L	17491	ppb	10:36:49
3	Sn 189.927†	-67.1	-69.6	1.4598	µg/L	1.4598	ppb	10:37:09
3	Ti 334.940†	-6732.7	-8462.3	-2.0778	µg/L	-2.0778	ppb	10:36:49
3	Tl 190.801†	-11.6	6.1	-7.6416	µg/L	-7.6416	ppb	10:37:09
3	U 367.007†	1144.5	882.5	2.7943	µg/L	2.7943	ppb	10:36:49
3	V 292.402†	-219.5	-528.1	1.6779	µg/L	1.6779	ppb	10:36:49
3	Zn 213.857†	1406.7	894.2	4.8081	µg/L	4.8081	ppb	10:37:09

Mean Data: 335304004|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1235718.0	95.518	%	2.9961				3.14%
Sc RADIAL	22658.6	95.4	%	1.32				1.38%
Y 371.029	701836.0	91.893	%	2.8414				3.09%
Ag 328.068†	1318.4	0.8426	µg/L	0.62144	0.8426	ppb	0.62144	73.76%
Al 396.153Radial†	-53.5	33.513	µg/L	51.8546	33.513	ppb	51.8546	154.73%
As 188.979†	2.6	8.3068	µg/L	4.06495	8.3068	ppb	4.06495	48.94%
B 249.677†	149174.6	1615.3	µg/L	6.35	1615.3	ppb	6.35	0.39%
Ba 233.527†	178279.8	2458.6	µg/L	8.40	2458.6	ppb	8.40	0.34%
Be 313.107†	-1875.3	-0.7923	µg/L	0.12145	-0.7923	ppb	0.12145	15.33%
Ca 317.933Radial†	454369.8	286400	µg/L	3681.8	286400	ppb	3681.8	1.29%
Cd 226.502†	257.9	-0.8017	µg/L	0.31532	-0.8017	ppb	0.31532	39.33%
Co 228.616†	201.5	6.7619	µg/L	0.20699	6.7619	ppb	0.20699	3.06%
Cr 267.716†	116.3	2.1901	µg/L	0.23780	2.1901	ppb	0.23780	10.86%
Cu 324.752†	-958.0	-0.9312	µg/L	0.90334	-0.9312	ppb	0.90334	97.01%
Fe 238.204 Radial†	11495.5	35640	µg/L	156.8	35640	ppb	156.8	0.44%
K 766.490 Radial†	21722.8	29599	µg/L	75.5	29599	ppb	75.5	0.25%
Mg 279.077 IEC†	13274.3	85538	µg/L	290.8	85538	ppb	290.8	0.34%
Mn 257.610†	191295.3	548.27	µg/L	1.727	548.27	ppb	1.727	0.32%
Mo 202.031†	-70.6	-3.3357	µg/L	0.87709	-3.3357	ppb	0.87709	26.29%
Na 589.592 Radial†	263748.9	366730	µg/L	5319.7	366730	ppb	5319.7	1.45%

Ni 231.604†	585.6	16.614	µg/L	0.2137	16.614	ppb	0.2137	1.29%
P 214.914†	692.6	659.45	µg/L	10.563	659.45	ppb	10.563	1.60%
Pb 220.353†	-6.6	-2.7615	µg/L	0.17950	-2.7615	ppb	0.17950	6.50%
S 181.975 Axial†	795.2	2468.1	µg/L	65.56	2468.1	ppb	65.56	2.66%
Sb 206.836†	-4.3	-3.3562	µg/L	1.45757	-3.3562	ppb	1.45757	43.43%
Se 196.026†	-2.7	12.5	µg/L	4.28	12.5	ppb	4.28	34.08%
SiO2†	207341.0	37468	µg/L	98.1	37468	ppb	98.1	0.26%
Si 251.611†	606393.9	17468	µg/L	31.8	17468	ppb	31.8	0.18%
Sn 189.927†	-66.5	2.8204	µg/L	1.41640	2.8204	ppb	1.41640	50.22%
Sr 421.552†	83337.4	960.06	µg/L	13.053	960.06	ppb	13.053	1.36%
Ti 334.940†	-8289.5	-1.7003	µg/L	0.46977	-1.7003	ppb	0.46977	27.63%
Tl 190.801†	3.9	-10.288	µg/L	2.4265	-10.288	ppb	2.4265	23.59%
U 367.007†	871.7	-1.2960	µg/L	3.87190	-1.2960	ppb	3.87190	298.76%
V 292.402†	-645.8	0.8716	µg/L	0.69835	0.8716	ppb	0.69835	80.12%
Zn 213.857†	894.4	4.7870	µg/L	0.51924	4.7870	ppb	0.51924	10.85%

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Sequence No.: 10 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 10:37:18**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23921.1	23921.1	101	%			10:37:51
1	Al 396.153Radial†	2126.2	2218.3	4652.3	µg/L	4652.3	ppb	10:38:11
1	Ca 317.933Radial†	8161.9	8018.6	5053.3	µg/L	5053.3	ppb	10:38:11
1	Fe 238.204 Radial†	1698.7	1653.1	5109.3	µg/L	5109.3	ppb	10:38:11
1	K 766.490 Radial†	4342.6	3590.9	4922.9	µg/L	4922.9	ppb	10:37:51
1	Mg 279.077 IEC†	814.6	805.5	5190.7	µg/L	5190.7	ppb	10:38:11
1	Na 589.592 Radial†	6960.3	6957.1	9673.4	µg/L	9673.4	ppb	10:37:51
1	Sr 421.552†	43090.3	42742.2	493.50	µg/L	493.50	ppb	10:37:51
1	Sc 361.383	1326042.4	1326042.4	102.50	%			10:39:13
1	Y 371.029	763770.5	763770.5	100.00	%			10:39:13
1	Ag 328.068†	78696.3	76101.9	509.76	µg/L	509.76	ppb	10:39:15
1	As 188.979†	297.2	293.6	558.86	µg/L	558.86	ppb	10:39:35
1	B 249.677†	43858.4	42511.6	482.61	µg/L	482.61	ppb	10:39:15
1	Ba 233.527†	36914.4	36101.9	499.26	µg/L	499.26	ppb	10:39:15
1	Be 313.107†	1191866.5	1170729.0	494.62	µg/L	494.62	ppb	10:39:13
1	Cd 226.502†	34162.9	33434.5	498.70	µg/L	498.70	ppb	10:39:15
1	Co 228.616†	18060.4	17721.4	505.86	µg/L	505.86	ppb	10:39:15
1	Cr 267.716†	28288.1	27484.9	494.49	µg/L	494.49	ppb	10:39:15
1	Cu 324.752†	81393.8	75231.6	509.22	µg/L	509.22	ppb	10:39:15
1	Mn 257.610†	180673.9	176075.8	506.27	µg/L	506.27	ppb	10:39:15
1	Mo 202.031†	4584.5	4484.3	501.00	µg/L	501.00	ppb	10:39:35
1	Ni 231.604†	17724.1	17350.8	497.75	µg/L	497.75	ppb	10:39:15
1	P 214.914†	2154.8	2167.0	2196.4	µg/L	2196.4	ppb	10:39:35
1	Pb 220.353†	2568.7	2391.8	499.38	µg/L	499.38	ppb	10:39:35
1	S 181.975 Axial†	343.2	306.7	961.57	µg/L	961.57	ppb	10:39:35
1	Sb 206.836†	741.7	719.0	447.75	µg/L	447.75	ppb	10:39:35
1	Se 196.026†	407.1	385.3	503	µg/L	503	ppb	10:39:35
1	SiO2†	32904.5	30164.5	5460.7	µg/L	5460.7	ppb	10:39:15
1	Si 251.611†	91226.1	88608.4	2545.8	µg/L	2545.8	ppb	10:39:15
1	Sn 189.927†	1154.8	1125.9	449.82	µg/L	449.82	ppb	10:39:35
1	Ti 334.940†	281212.0	272805.3	503.34	µg/L	503.34	ppb	10:39:15
1	Tl 190.801†	444.2	451.3	538.02	µg/L	538.02	ppb	10:39:35
1	U 367.007†	2334.0	1984.4	531.15	µg/L	531.15	ppb	10:39:15
1	V 292.402†	72598.2	70525.0	500.04	µg/L	500.04	ppb	10:39:15
1	Zn 213.857†	42308.1	40726.2	499.34	µg/L	499.34	ppb	10:39:15
2	Sc RADIAL	23236.9	23236.9	97.9	%			10:38:13
2	Al 396.153Radial†	2115.9	2269.9	4760.7	µg/L	4760.7	ppb	10:38:33
2	Ca 317.933Radial†	8126.3	8220.7	5180.8	µg/L	5180.8	ppb	10:38:33
2	Fe 238.204 Radial†	1689.4	1693.2	5234.2	µg/L	5234.2	ppb	10:38:33
2	K 766.490 Radial†	4267.2	3640.8	4991.0	µg/L	4991.0	ppb	10:38:13
2	Mg 279.077 IEC†	811.4	825.9	5322.5	µg/L	5322.5	ppb	10:38:33
2	Na 589.592 Radial†	6634.7	6827.8	9493.7	µg/L	9493.7	ppb	10:38:13
2	Sr 421.552†	42198.3	43090.1	497.52	µg/L	497.52	ppb	10:38:13
2	Sc 361.383	1338970.7	1338970.7	103.50	%			10:39:37
2	Y 371.029	770727.4	770727.4	100.91	%			10:39:37
2	Ag 328.068†	77913.6	74604.3	499.72	µg/L	499.72	ppb	10:39:39
2	As 188.979†	302.8	296.2	563.62	µg/L	563.62	ppb	10:40:00
2	B 249.677†	43166.3	41429.8	469.29	µg/L	469.29	ppb	10:39:39
2	Ba 233.527†	36360.1	35218.6	487.05	µg/L	487.05	ppb	10:39:39
2	Be 313.107†	1206854.3	1173982.7	495.99	µg/L	495.99	ppb	10:39:37
2	Cd 226.502†	33617.9	32586.2	486.02	µg/L	486.02	ppb	10:39:39
2	Co 228.616†	17787.7	17287.8	493.49	µg/L	493.49	ppb	10:39:39
2	Cr 267.716†	27806.5	26753.0	481.32	µg/L	481.32	ppb	10:39:39
2	Cu 324.752†	80140.8	73254.2	495.88	µg/L	495.88	ppb	10:39:39
2	Mn 257.610†	178204.9	171988.3	494.52	µg/L	494.52	ppb	10:39:39
2	Mo 202.031†	4603.2	4459.2	498.21	µg/L	498.21	ppb	10:40:00
2	Ni 231.604†	17518.0	16984.8	487.25	µg/L	487.25	ppb	10:39:39
2	P 214.914†	2172.7	2163.9	2193.3	µg/L	2193.3	ppb	10:40:00
2	Pb 220.353†	2566.4	2365.4	493.87	µg/L	493.87	ppb	10:40:00

2	S 181.975 Axial†	351.4	311.4	976.37 µg/L	976.37 ppb	10:40:00
2	Sb 206.836†	742.3	712.7	443.88 µg/L	443.88 ppb	10:40:00
2	Se 196.026†	410.4	384.7	502 µg/L	502 ppb	10:40:00
2	SiO2†	32370.4	29338.5	5311.2 µg/L	5311.2 ppb	10:39:39
2	Si 251.611†	89499.6	86081.0	2473.1 µg/L	2473.1 ppb	10:39:39
2	Sn 189.927†	1160.1	1120.1	447.52 µg/L	447.52 ppb	10:40:00
2	Ti 334.940†	277413.3	266486.0	491.69 µg/L	491.69 ppb	10:39:39
2	Tl 190.801†	452.9	455.6	543.24 µg/L	543.24 ppb	10:40:00
2	U 367.007†	2327.2	1955.8	522.45 µg/L	522.45 ppb	10:39:39
2	V 292.402†	71716.6	68989.3	489.28 µg/L	489.28 ppb	10:39:39
2	Zn 213.857†	41785.5	39822.6	488.23 µg/L	488.23 ppb	10:39:39
3	Sc RADIAL	23715.7	23715.7	99.9 %		10:38:35
3	Al 396.153Radial†	2089.2	2199.6	4613.1 µg/L	4613.1 ppb	10:38:55
3	Ca 317.933Radial†	8179.0	8105.9	5108.4 µg/L	5108.4 ppb	10:38:55
3	Fe 238.204 Radial†	1697.7	1666.6	5151.9 µg/L	5151.9 ppb	10:38:55
3	K 766.490 Radial†	4328.9	3614.5	4955.0 µg/L	4955.0 ppb	10:38:35
3	Mg 279.077 IEC†	817.2	815.0	5252.2 µg/L	5252.2 ppb	10:38:55
3	Na 589.592 Radial†	6685.7	6741.9	9374.3 µg/L	9374.3 ppb	10:38:35
3	Sr 421.552†	42874.6	42896.7	495.28 µg/L	495.28 ppb	10:38:35
3	Sc 361.383	1356510.6	1356510.6	104.85 %		10:40:02
3	Y 371.029	781030.5	781030.5	102.26 %		10:40:02
3	Ag 328.068†	78074.6	73784.6	494.25 µg/L	494.25 ppb	10:40:04
3	As 188.979†	305.1	294.7	560.68 µg/L	560.68 ppb	10:40:24
3	B 249.677†	43393.4	41107.1	465.79 µg/L	465.79 ppb	10:40:04
3	Ba 233.527†	36531.7	34928.0	483.03 µg/L	483.03 ppb	10:40:04
3	Be 313.107†	1221422.7	1172799.4	495.49 µg/L	495.49 ppb	10:40:02
3	Cd 226.502†	33929.9	32463.7	484.20 µg/L	484.20 ppb	10:40:04
3	Co 228.616†	17856.3	17131.0	489.01 µg/L	489.01 ppb	10:40:04
3	Cr 267.716†	28118.3	26703.0	480.44 µg/L	480.44 ppb	10:40:04
3	Cu 324.752†	80516.7	72611.5	491.51 µg/L	491.51 ppb	10:40:04
3	Mn 257.610†	179224.5	170734.3	490.92 µg/L	490.92 ppb	10:40:04
3	Mo 202.031†	4608.8	4407.1	492.38 µg/L	492.38 ppb	10:40:24
3	Ni 231.604†	17540.4	16787.3	481.59 µg/L	481.59 ppb	10:40:04
3	P 214.914†	2176.4	2140.3	2169.4 µg/L	2169.4 ppb	10:40:24
3	Pb 220.353†	2599.6	2365.0	493.79 µg/L	493.79 ppb	10:40:24
3	S 181.975 Axial†	353.1	308.6	967.59 µg/L	967.59 ppb	10:40:24
3	Sb 206.836†	752.1	712.7	443.86 µg/L	443.86 ppb	10:40:24
3	Se 196.026†	406.1	375.5	490 µg/L	490 ppb	10:40:24
3	SiO2†	32450.2	29010.2	5251.8 µg/L	5251.8 ppb	10:40:04
3	Si 251.611†	89908.5	85352.8	2452.2 µg/L	2452.2 ppb	10:40:04
3	Sn 189.927†	1170.2	1115.3	445.59 µg/L	445.59 ppb	10:40:24
3	Ti 334.940†	278641.1	264191.3	487.47 µg/L	487.47 ppb	10:40:04
3	Tl 190.801†	446.1	443.4	528.64 µg/L	528.64 ppb	10:40:24
3	U 367.007†	2254.5	1857.3	495.07 µg/L	495.07 ppb	10:40:04
3	V 292.402†	71946.1	68312.2	484.46 µg/L	484.46 ppb	10:40:04
3	Zn 213.857†	42015.6	39520.0	484.54 µg/L	484.54 ppb	10:40:04

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1340507.9	103.62	%	1.182				1.14%
Sc RADIAL	23624.6	99.5	%	1.48				1.49%
Y 371.029	771842.8	101.06	%	1.137				1.13%
Ag 328.068†	74830.3	501.24	µg/L	7.866	501.24	ppb	7.866	1.57%
QC value within limits for Ag 328.068 Recovery = 100.25%								
Al 396.153Radial†	2229.3	4675.4	µg/L	76.42	4675.4	ppb	76.42	1.63%
QC value within limits for Al 396.153Radial Recovery = 93.51%								
As 188.979†	294.8	561.06	µg/L	2.405	561.06	ppb	2.405	0.43%
QC value greater than the upper limit for As 188.979 Recovery = 112.21%								
B 249.677†	41682.8	472.56	µg/L	8.876	472.56	ppb	8.876	1.88%
QC value within limits for B 249.677 Recovery = 94.51%								
Ba 233.527†	35416.2	489.78	µg/L	8.455	489.78	ppb	8.455	1.73%
QC value within limits for Ba 233.527 Recovery = 97.96%								
Be 313.107†	1172503.7	495.37	µg/L	0.696	495.37	ppb	0.696	0.14%
QC value within limits for Be 313.107 Recovery = 99.07%								
Ca 317.933Radial†	8115.1	5114.2	µg/L	63.90	5114.2	ppb	63.90	1.25%
QC value within limits for Ca 317.933Radial Recovery = 102.28%								
Cd 226.502†	32828.2	489.64	µg/L	7.902	489.64	ppb	7.902	1.61%
QC value within limits for Cd 226.502 Recovery = 97.93%								
Co 228.616†	17380.1	496.12	µg/L	8.728	496.12	ppb	8.728	1.76%

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   QC value within limits for Co 228.616  Recovery = 99.22%
Cr 267.716†            26980.3      485.42 µg/L         7.868      485.42 ppb          7.868   1.62%
   QC value within limits for Cr 267.716  Recovery = 97.08%
Cu 324.752†            73699.1      498.87 µg/L         9.228      498.87 ppb          9.228   1.85%
   QC value within limits for Cu 324.752  Recovery = 99.77%
Fe 238.204 Radial†      1671.0      5165.1 µg/L         63.50      5165.1 ppb          63.50   1.23%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.30%
K 766.490 Radial†       3615.4      4956.3 µg/L         34.09      4956.3 ppb          34.09   0.69%
   QC value within limits for K 766.490 Radial  Recovery = 99.13%
Mg 279.077 IEC†          815.4      5255.1 µg/L         65.92      5255.1 ppb          65.92   1.25%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.10%
Mn 257.610†           172932.8      497.24 µg/L         8.032      497.24 ppb          8.032   1.62%
   QC value within limits for Mn 257.610  Recovery = 99.45%
Mo 202.031†             4450.2      497.19 µg/L         4.399      497.19 ppb          4.399   0.88%
   QC value within limits for Mo 202.031  Recovery = 99.44%
Na 589.592 Radial†      6842.3      9513.8 µg/L        150.56      9513.8 ppb         150.56   1.58%
   QC value within limits for Na 589.592 Radial  Recovery = 95.14%
Ni 231.604†            17041.0      488.86 µg/L         8.203      488.86 ppb          8.203   1.68%
   QC value within limits for Ni 231.604  Recovery = 97.77%
P 214.914†              2157.1      2186.3 µg/L         14.77      2186.3 ppb          14.77   0.68%
   QC value less than the lower limit for P 214.914  Recovery = 87.45%
Pb 220.353†             2374.0      495.68 µg/L         3.203      495.68 ppb          3.203   0.65%
   QC value within limits for Pb 220.353  Recovery = 99.14%
S 181.975 Axial†         308.9      968.51 µg/L         7.442      968.51 ppb          7.442   0.77%
   QC value within limits for S 181.975 Axial  Recovery = 96.85%
Sb 206.836†              714.8      445.16 µg/L         2.240      445.16 ppb          2.240   0.50%
   QC value less than the lower limit for Sb 206.836  Recovery = 89.03%
Se 196.026†              381.8         499 µg/L           7.2         499 ppb            7.2   1.44%
   QC value within limits for Se 196.026  Recovery = 99.74%
SiO2†                  29504.4      5341.2 µg/L        107.63      5341.2 ppb         107.63   2.02%
   QC value within limits for SiO2  Recovery = 99.88%
Si 251.611†            86680.8      2490.3 µg/L         49.15      2490.3 ppb          49.15   1.97%
   QC value within limits for Si 251.611  Recovery = 99.61%
Sn 189.927†             1120.4      447.64 µg/L         2.117      447.64 ppb          2.117   0.47%
   QC value less than the lower limit for Sn 189.927  Recovery = 89.53%
Sr 421.552†            42909.7      495.43 µg/L         2.012      495.43 ppb          2.012   0.41%
   QC value within limits for Sr 421.552  Recovery = 99.09%
Ti 334.940†           267827.5      494.17 µg/L         8.222      494.17 ppb          8.222   1.66%
   QC value within limits for Ti 334.940  Recovery = 98.83%
Tl 190.801†              450.1      536.63 µg/L         7.401      536.63 ppb          7.401   1.38%
   QC value within limits for Tl 190.801  Recovery = 107.33%
U 367.007†              1932.5      516.23 µg/L        18.829      516.23 ppb         18.829   3.65%
   QC value within limits for U 367.007  Recovery = 103.25%
V 292.402†             69275.5      491.26 µg/L         7.976      491.26 ppb          7.976   1.62%
   QC value within limits for V 292.402  Recovery = 98.25%
Zn 213.857†            40022.9      490.70 µg/L         7.707      490.70 ppb          7.707   1.57%
   QC value within limits for Zn 213.857  Recovery = 98.14%
QC Failed.  Continue with analysis.
```

Sequence No.: 11 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 10:40:32**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23265.5	23265.5	98.0	%			10:41:19
1	Al 396.153Radial†	-109.8	-4.1	-8.5444	µg/L	-8.5444	ppb	10:41:19
1	Ca 317.933Radial†	88.0	7.4	4.6525	µg/L	4.6525	ppb	10:41:39
1	Fe 238.204 Radial†	28.6	-3.8	-11.923	µg/L	-11.923	ppb	10:41:39
1	K 766.490 Radial†	746.5	42.4	58.045	µg/L	58.045	ppb	10:41:19
1	Mg 279.077 IEC†	0.8	-2.3	-15.031	µg/L	-15.031	ppb	10:41:39
1	Na 589.592 Radial†	5.5	54.2	75.414	µg/L	75.414	ppb	10:41:19
1	Sr 421.552†	36.2	10.0	0.1159	µg/L	0.1159	ppb	10:41:19
1	Sc 361.383	1314808.4	1314808.4	101.63	%			10:43:17
1	Y 371.029	772284.4	772284.4	101.12	%			10:43:17
1	Ag 328.068†	821.8	133.3	0.8760	µg/L	0.8760	ppb	10:43:19
1	As 188.979†	-4.9	-1.2	-2.2656	µg/L	-2.2656	ppb	10:43:39
1	B 249.677†	456.0	171.4	2.0478	µg/L	2.0478	ppb	10:43:19
1	Ba 233.527†	-73.6	15.3	0.2106	µg/L	0.2106	ppb	10:43:39
1	Be 313.107†	-9314.4	-1236.9	-0.5226	µg/L	-0.5226	ppb	10:43:19
1	Cd 226.502†	-114.5	-7.9	-0.1160	µg/L	-0.1160	ppb	10:43:39
1	Co 228.616†	-79.3	23.4	0.6692	µg/L	0.6692	ppb	10:43:39
1	Cr 267.716†	105.8	-9.3	-0.1801	µg/L	-0.1801	ppb	10:43:39
1	Cu 324.752†	4418.4	170.2	1.1560	µg/L	1.1560	ppb	10:43:19
1	Mn 257.610†	194.8	-0.5	-0.0013	µg/L	-0.0013	ppb	10:43:39
1	Mo 202.031†	2.4	14.1	1.5690	µg/L	1.5690	ppb	10:43:39
1	Ni 231.604†	-70.0	-9.9	-0.2844	µg/L	-0.2844	ppb	10:43:39
1	P 214.914†	-89.7	-23.6	-24.085	µg/L	-24.085	ppb	10:43:39
1	Pb 220.353†	97.0	-18.8	-3.9260	µg/L	-3.9260	ppb	10:43:39
1	S 181.975 Axial†	24.9	-3.6	-11.411	µg/L	-11.411	ppb	10:43:39
1	Sb 206.836†	1.2	-3.4	-2.0817	µg/L	-2.0817	ppb	10:43:39
1	Se 196.026†	17.1	5.0	6.46	µg/L	6.46	ppb	10:43:39
1	SiO2†	2332.3	357.3	64.556	µg/L	64.556	ppb	10:43:19
1	Si 251.611†	1255.6	842.5	24.242	µg/L	24.242	ppb	10:43:19
1	Sn 189.927†	2.9	2.1	0.8396	µg/L	0.8396	ppb	10:43:39
1	Ti 334.940†	1645.5	70.2	0.1208	µg/L	0.1208	ppb	10:43:19
1	Tl 190.801†	-10.0	8.2	9.8282	µg/L	9.8282	ppb	10:43:39
1	U 367.007†	361.8	63.3	17.955	µg/L	17.955	ppb	10:43:19
1	V 292.402†	298.7	-8.8	-0.0343	µg/L	-0.0343	ppb	10:43:19
1	Zn 213.857†	567.4	8.1	0.1021	µg/L	0.1021	ppb	10:43:39
2	Sc RADIAL	23078.0	23078.0	97.2	%			10:41:59
2	Al 396.153Radial†	-100.1	5.0	10.523	µg/L	10.523	ppb	10:41:59
2	Ca 317.933Radial†	83.2	3.2	1.9993	µg/L	1.9993	ppb	10:42:19
2	Fe 238.204 Radial†	31.4	-0.7	-2.3415	µg/L	-2.3415	ppb	10:42:19
2	K 766.490 Radial†	778.5	81.5	111.56	µg/L	111.56	ppb	10:41:59
2	Mg 279.077 IEC†	1.9	-1.2	-7.4245	µg/L	-7.4245	ppb	10:42:19
2	Na 589.592 Radial†	-12.8	35.5	49.386	µg/L	49.386	ppb	10:41:59
2	Sr 421.552†	45.9	20.3	0.2348	µg/L	0.2348	ppb	10:41:59
2	Sc 361.383	1308338.3	1308338.3	101.13	%			10:43:41
2	Y 371.029	768085.0	768085.0	100.57	%			10:43:41
2	Ag 328.068†	840.4	155.8	1.0263	µg/L	1.0263	ppb	10:43:43
2	As 188.979†	-8.3	-4.6	-8.5655	µg/L	-8.5655	ppb	10:44:03
2	B 249.677†	499.2	216.4	2.5231	µg/L	2.5231	ppb	10:43:43
2	Ba 233.527†	-71.2	17.3	0.2406	µg/L	0.2406	ppb	10:44:03
2	Be 313.107†	-9278.3	-1246.5	-0.5266	µg/L	-0.5266	ppb	10:43:43
2	Cd 226.502†	-109.0	-3.0	-0.0446	µg/L	-0.0446	ppb	10:44:03
2	Co 228.616†	-63.9	38.3	1.0936	µg/L	1.0936	ppb	10:44:03
2	Cr 267.716†	117.5	2.8	0.0369	µg/L	0.0369	ppb	10:44:03
2	Cu 324.752†	4391.2	164.8	1.1218	µg/L	1.1218	ppb	10:43:43
2	Mn 257.610†	212.3	17.7	0.0512	µg/L	0.0512	ppb	10:44:03
2	Mo 202.031†	0.1	11.8	1.3170	µg/L	1.3170	ppb	10:44:03
2	Ni 231.604†	-74.0	-14.2	-0.4077	µg/L	-0.4077	ppb	10:44:03
2	P 214.914†	-89.3	-23.6	-24.109	µg/L	-24.109	ppb	10:44:03
2	Pb 220.353†	80.0	-35.2	-7.3350	µg/L	-7.3350	ppb	10:44:03

2	S 181.975 Axial†	26.4	-2.0	-6.3023	µg/L	-6.3023	ppb	10:44:03
2	Sb 206.836†	1.8	-2.8	-1.7280	µg/L	-1.7280	ppb	10:44:03
2	Se 196.026†	22.3	10.3	13.4	µg/L	13.4	ppb	10:44:03
2	SiO2†	2283.6	320.5	57.916	µg/L	57.916	ppb	10:43:43
2	Si 251.611†	1220.0	813.4	23.410	µg/L	23.410	ppb	10:43:43
2	Sn 189.927†	8.8	8.0	3.1847	µg/L	3.1847	ppb	10:44:03
2	Ti 334.940†	1759.5	190.9	0.3424	µg/L	0.3424	ppb	10:43:43
2	Tl 190.801†	-14.3	3.9	4.6797	µg/L	4.6797	ppb	10:44:03
2	U 367.007†	366.9	70.1	19.822	µg/L	19.822	ppb	10:43:43
2	V 292.402†	405.1	97.8	0.7095	µg/L	0.7095	ppb	10:43:43
2	Zn 213.857†	567.4	10.8	0.1356	µg/L	0.1356	ppb	10:44:03
3	Sc RADIAL	23084.7	23084.7	97.2	%			10:42:39
3	Al 396.153Radial†	-98.0	7.3	15.208	µg/L	15.208	ppb	10:42:39
3	Ca 317.933Radial†	79.4	-0.8	-0.4835	µg/L	-0.4835	ppb	10:42:59
3	Fe 238.204 Radial†	33.4	1.3	4.0688	µg/L	4.0688	ppb	10:42:59
3	K 766.490 Radial†	739.7	41.5	56.754	µg/L	56.754	ppb	10:42:39
3	Mg 279.077 IEC†	7.5	4.6	29.647	µg/L	29.647	ppb	10:42:59
3	Na 589.592 Radial†	0.4	49.1	68.265	µg/L	68.265	ppb	10:42:39
3	Sr 421.552†	40.9	15.2	0.1759	µg/L	0.1759	ppb	10:42:39
3	Sc 361.383	1311169.4	1311169.4	101.35	%			10:44:05
3	Y 371.029	769641.0	769641.0	100.77	%			10:44:05
3	Ag 328.068†	744.8	59.6	0.4079	µg/L	0.4079	ppb	10:44:07
3	As 188.979†	-1.7	2.0	3.7011	µg/L	3.7011	ppb	10:44:27
3	B 249.677†	574.3	289.4	3.3802	µg/L	3.3802	ppb	10:44:07
3	Ba 233.527†	-73.9	14.7	0.2037	µg/L	0.2037	ppb	10:44:27
3	Be 313.107†	-9345.5	-1293.1	-0.5463	µg/L	-0.5463	ppb	10:44:07
3	Cd 226.502†	-121.9	-15.5	-0.2315	µg/L	-0.2315	ppb	10:44:27
3	Co 228.616†	-91.2	11.4	0.3268	µg/L	0.3268	ppb	10:44:27
3	Cr 267.716†	99.2	-15.6	-0.2747	µg/L	-0.2747	ppb	10:44:27
3	Cu 324.752†	4337.9	102.8	0.6905	µg/L	0.6905	ppb	10:44:07
3	Mn 257.610†	212.0	17.0	0.0479	µg/L	0.0479	ppb	10:44:27
3	Mo 202.031†	1.0	12.6	1.4124	µg/L	1.4124	ppb	10:44:27
3	Ni 231.604†	-64.1	-4.2	-0.1206	µg/L	-0.1206	ppb	10:44:27
3	P 214.914†	-81.8	-16.0	-16.368	µg/L	-16.368	ppb	10:44:27
3	Pb 220.353†	95.8	-19.7	-4.0861	µg/L	-4.0861	ppb	10:44:27
3	S 181.975 Axial†	26.2	-2.3	-7.0986	µg/L	-7.0986	ppb	10:44:27
3	Sb 206.836†	-1.0	-5.5	-3.4403	µg/L	-3.4403	ppb	10:44:27
3	Se 196.026†	8.9	-3.0	-3.97	µg/L	-3.97	ppb	10:44:27
3	SiO2†	2203.7	236.8	42.790	µg/L	42.790	ppb	10:44:07
3	Si 251.611†	1160.1	751.7	21.630	µg/L	21.630	ppb	10:44:07
3	Sn 189.927†	0.6	-0.2	-0.0772	µg/L	-0.0772	ppb	10:44:27
3	Ti 334.940†	1833.0	259.7	0.4837	µg/L	0.4837	ppb	10:44:07
3	Tl 190.801†	-17.5	0.8	0.9169	µg/L	0.9169	ppb	10:44:27
3	U 367.007†	266.2	-30.1	-8.5384	µg/L	-8.5384	ppb	10:44:07
3	V 292.402†	342.7	35.3	0.2584	µg/L	0.2584	ppb	10:44:07
3	Zn 213.857†	557.3	-0.4	-0.0050	µg/L	-0.0050	ppb	10:44:27

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1311438.7	101.37	%	0.251				0.25%
Sc RADIAL	23142.7	97.5	%	0.45				0.46%
Y 371.029	770003.5	100.82	%	0.278				0.28%
Ag 328.068†	116.3	0.7700	µg/L	0.32255	0.7700	ppb	0.32255	41.89%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	2.7	5.7289	µg/L	12.58111	5.7289	ppb	12.58111	219.61%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.3	-2.3767	µg/L	6.13405	-2.3767	ppb	6.13405	258.09%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	225.7	2.6504	µg/L	0.67526	2.6504	ppb	0.67526	25.48%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	15.8	0.2183	µg/L	0.01964	0.2183	ppb	0.01964	9.00%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1258.8	-0.5318	µg/L	0.01270	-0.5318	ppb	0.01270	2.39%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.3	2.0561	µg/L	2.56850	2.0561	ppb	2.56850	124.92%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-8.8	-0.1307	µg/L	0.09435	-0.1307	ppb	0.09435	72.18%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	24.4	0.6966	µg/L	0.38412	0.6966	ppb	0.38412	55.14%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -7.4     -0.1393 µg/L       0.15976     -0.1393 ppb        0.15976 114.69%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               145.9      0.9894 µg/L       0.25942      0.9894 ppb        0.25942  26.22%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -1.1     -3.3987 µg/L       8.04828     -3.3987 ppb        8.04828 236.81%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          55.2      75.452 µg/L       31.2739      75.452 ppb        31.2739  41.45%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.4      2.3970 µg/L      23.90327      2.3970 ppb       23.90327 997.21%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                11.4      0.0326 µg/L       0.02940      0.0326 ppb        0.02940  90.13%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                12.8      1.4328 µg/L       0.12723      1.4328 ppb        0.12723   8.88%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         46.3      64.355 µg/L       13.4470      64.355 ppb        13.4470  20.89%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -9.4     -0.2709 µg/L       0.14404     -0.2709 ppb        0.14404  53.17%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -21.1     -21.521 µg/L        4.4626     -21.521 ppb         4.4626  20.74%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -24.5     -5.1157 µg/L       1.92362     -5.1157 ppb        1.92362  37.60%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -2.6     -8.2707 µg/L       2.74883     -8.2707 ppb        2.74883  33.24%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -3.9     -2.4167 µg/L       0.90397     -2.4167 ppb        0.90397  37.41%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 4.1        5.28 µg/L         8.722        5.28 ppb          8.722 165.08%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     304.9      55.087 µg/L       11.1554      55.087 ppb        11.1554  20.25%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               802.6      23.094 µg/L        1.3343      23.094 ppb         1.3343   5.78%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 3.3      1.3157 µg/L       1.68229      1.3157 ppb        1.68229 127.86%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                15.2      0.1755 µg/L       0.05944      0.1755 ppb        0.05944  33.86%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               173.6      0.3157 µg/L       0.18290      0.3157 ppb        0.18290  57.94%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 4.3      5.1416 µg/L       4.47357      5.1416 ppb        4.47357  87.01%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 34.4      9.7462 µg/L      15.86241      9.7462 ppb       15.86241 162.76%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 41.4      0.3112 µg/L       0.37469      0.3112 ppb        0.37469 120.40%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                 6.2      0.0776 µg/L       0.07344      0.0776 ppb        0.07344  94.69%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 14 **Autosampler Location: 312**
Sample ID: 335304007|1339673|1 **Date Collected: 11/6/2013 10:49:02**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304007|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22925.3	22925.3	96.6	%			10:49:34
1	Al 396.153Radial†	-155.5	-53.1	37.018	µg/L	37.018	ppb	10:49:34
1	Ca 317.933Radial†	446834.7	462686.0	291640	µg/L	291640	ppb	10:49:32
1	Fe 238.204 Radial†	11319.7	11690.4	36244	µg/L	36244	ppb	10:49:34
1	K 766.490 Radial†	18476.4	18415.9	25086	µg/L	25086	ppb	10:49:34
1	Mg 279.077 IEC†	13370.5	13844.1	89210	µg/L	89210	ppb	10:49:34
1	Na 589.592 Radial†	233924.9	242315.0	336930	µg/L	336930	ppb	10:49:32
1	Sr 421.552†	77458.5	80193.7	923.72	µg/L	923.72	ppb	10:49:32
1	Sc 361.383	1249668.4	1249668.4	96.596	%			10:50:00
1	Y 371.029	710360.2	710360.2	93.009	%			10:50:00
1	Ag 328.068†	1800.9	1189.1	-0.1576	µg/L	-0.1576	ppb	10:50:00
1	As 188.979†	5.3	9.1	20.697	µg/L	20.697	ppb	10:50:20
1	B 249.677†	128934.0	133200.1	1426.2	µg/L	1426.2	ppb	10:50:00
1	Ba 233.527†	153766.0	159272.2	2196.4	µg/L	2196.4	ppb	10:50:00
1	Be 313.107†	-9486.6	-1892.8	-0.7997	µg/L	-0.7997	ppb	10:50:00
1	Cd 226.502†	154.6	264.8	-0.7785	µg/L	-0.7785	ppb	10:50:20
1	Co 228.616†	63.3	166.9	5.6307	µg/L	5.6307	ppb	10:50:20
1	Cr 267.716†	195.2	88.6	1.6530	µg/L	1.6530	ppb	10:50:20
1	Cu 324.752†	3070.1	-999.0	-1.1101	µg/L	-1.1101	ppb	10:50:00
1	Mn 257.610†	213465.7	220795.8	632.99	µg/L	632.99	ppb	10:50:00
1	Mo 202.031†	-88.1	-79.5	-4.1714	µg/L	-4.1714	ppb	10:50:20
1	Ni 231.604†	501.1	577.8	16.386	µg/L	16.386	ppb	10:50:20
1	P 214.914†	605.5	691.5	657.62	µg/L	657.62	ppb	10:50:20
1	Pb 220.353†	84.0	-27.2	-7.0670	µg/L	-7.0670	ppb	10:50:20
1	S 181.975 Axial†	733.1	730.8	2264.6	µg/L	2264.6	ppb	10:50:20
1	Sb 206.836†	1.6	-2.9	-2.4352	µg/L	-2.4352	ppb	10:50:20
1	Se 196.026†	8.2	-3.3	12.0	µg/L	12.0	ppb	10:50:20
1	SiO2†	210872.5	216365.7	39099	µg/L	39099	ppb	10:50:00
1	Si 251.611†	611170.1	632313.9	18215	µg/L	18215	ppb	10:50:00
1	Sn 189.927†	-59.7	-62.6	4.9260	µg/L	4.9260	ppb	10:50:20
1	Ti 334.940†	-6553.7	-8333.5	-1.5424	µg/L	-1.5424	ppb	10:50:00
1	Tl 190.801†	-12.3	5.3	-9.1620	µg/L	-9.1620	ppb	10:50:20
1	U 367.007†	1093.6	839.4	-14.951	µg/L	-14.951	ppb	10:50:00
1	V 292.402†	-437.2	-755.4	0.1780	µg/L	0.1780	ppb	10:50:00
1	Zn 213.857†	1409.6	909.1	4.8132	µg/L	4.8132	ppb	10:50:20
2	Sc RADIAL	22512.1	22512.1	94.8	%			10:49:38
2	Al 396.153Radial†	-135.6	-35.1	72.143	µg/L	72.143	ppb	10:49:38
2	Ca 317.933Radial†	430647.5	454108.7	286230	µg/L	286230	ppb	10:49:36
2	Fe 238.204 Radial†	11170.9	11748.6	36424	µg/L	36424	ppb	10:49:38
2	K 766.490 Radial†	18428.3	18716.5	25499	µg/L	25499	ppb	10:49:38
2	Mg 279.077 IEC†	13230.1	13950.2	89894	µg/L	89894	ppb	10:49:38
2	Na 589.592 Radial†	228233.2	240759.4	334760	µg/L	334760	ppb	10:49:36
2	Sr 421.552†	75283.4	79372.4	914.27	µg/L	914.27	ppb	10:49:36
2	Sc 361.383	1258084.7	1258084.7	97.247	%			10:50:23
2	Y 371.029	715216.9	715216.9	93.645	%			10:50:23
2	Ag 328.068†	1897.3	1275.8	0.5517	µg/L	0.5517	ppb	10:50:23
2	As 188.979†	-2.2	1.4	6.1481	µg/L	6.1481	ppb	10:50:43
2	B 249.677†	129973.2	133375.8	1427.4	µg/L	1427.4	ppb	10:50:23
2	Ba 233.527†	155159.8	159640.5	2201.5	µg/L	2201.5	ppb	10:50:23
2	Be 313.107†	-9412.5	-1751.0	-0.7398	µg/L	-0.7398	ppb	10:50:23
2	Cd 226.502†	163.9	273.3	-0.6746	µg/L	-0.6746	ppb	10:50:43
2	Co 228.616†	82.3	186.1	6.1785	µg/L	6.1785	ppb	10:50:43
2	Cr 267.716†	199.1	91.3	1.6918	µg/L	1.6918	ppb	10:50:43
2	Cu 324.752†	3042.3	-1048.9	-1.4127	µg/L	-1.4127	ppb	10:50:23
2	Mn 257.610†	215880.4	221800.5	635.86	µg/L	635.86	ppb	10:50:23
2	Mo 202.031†	-86.8	-77.6	-3.9220	µg/L	-3.9220	ppb	10:50:43
2	Ni 231.604†	505.5	578.8	16.413	µg/L	16.413	ppb	10:50:43
2	P 214.914†	592.7	674.2	639.66	µg/L	639.66	ppb	10:50:43
2	Pb 220.353†	69.5	-42.7	-10.306	µg/L	-10.306	ppb	10:50:43

2	S 181.975 Axial†	727.4	719.9	2230.8	µg/L	2230.8	ppb	10:50:43
2	Sb 206.836†	-1.7	-6.3	-4.6041	µg/L	-4.6041	ppb	10:50:43
2	Se 196.026†	3.7	-8.0	6.02	µg/L	6.02	ppb	10:50:43
2	SiO2†	212927.6	217018.7	39217	µg/L	39217	ppb	10:50:23
2	Si 251.611†	617018.6	634095.3	18266	µg/L	18266	ppb	10:50:23
2	Sn 189.927†	-68.8	-71.5	0.8430	µg/L	0.8430	ppb	10:50:43
2	Ti 334.940†	-6653.4	-8390.7	-1.9313	µg/L	-1.9313	ppb	10:50:23
2	Tl 190.801†	-11.1	6.6	-7.2773	µg/L	-7.2773	ppb	10:50:43
2	U 367.007†	1139.6	879.1	-3.6161	µg/L	-3.6161	ppb	10:50:23
2	V 292.402†	-384.7	-698.4	0.6124	µg/L	0.6124	ppb	10:50:23
2	Zn 213.857†	1412.9	902.6	4.6966	µg/L	4.6966	ppb	10:50:43
3	Sc RADIAL	23023.2	23023.2	97.0	%			10:49:43
3	Al 396.153Radial†	-168.7	-66.0	7.7185	µg/L	7.7185	ppb	10:49:43
3	Ca 317.933Radial†	441949.6	455680.7	287220	µg/L	287220	ppb	10:49:41
3	Fe 238.204 Radial†	11420.8	11744.7	36412	µg/L	36412	ppb	10:49:43
3	K 766.490 Radial†	18706.8	18572.1	25303	µg/L	25303	ppb	10:49:43
3	Mg 279.077 IEC†	13619.9	14042.5	90488	µg/L	90488	ppb	10:49:43
3	Na 589.592 Radial†	230552.3	237807.0	330660	µg/L	330660	ppb	10:49:41
3	Sr 421.552†	76899.1	79275.8	913.15	µg/L	913.15	ppb	10:49:41
3	Sc 361.383	1261531.0	1261531.0	97.513	%			10:50:45
3	Y 371.029	716638.2	716638.2	93.831	%			10:50:45
3	Ag 328.068†	1717.2	1085.8	-0.7526	µg/L	-0.7526	ppb	10:50:45
3	As 188.979†	-3.2	0.4	4.2519	µg/L	4.2519	ppb	10:51:05
3	B 249.677†	130422.3	133471.3	1428.6	µg/L	1428.6	ppb	10:50:45
3	Ba 233.527†	155640.0	159697.1	2202.3	µg/L	2202.3	ppb	10:50:45
3	Be 313.107†	-9490.8	-1804.9	-0.7625	µg/L	-0.7625	ppb	10:50:45
3	Cd 226.502†	137.8	246.0	-1.0800	µg/L	-1.0800	ppb	10:51:05
3	Co 228.616†	74.3	177.7	5.9402	µg/L	5.9402	ppb	10:51:05
3	Cr 267.716†	201.8	93.6	1.7206	µg/L	1.7206	ppb	10:51:05
3	Cu 324.752†	2927.5	-1175.1	-2.2596	µg/L	-2.2596	ppb	10:50:45
3	Mn 257.610†	216478.3	221807.2	635.86	µg/L	635.86	ppb	10:50:45
3	Mo 202.031†	-90.0	-80.6	-4.2311	µg/L	-4.2311	ppb	10:51:05
3	Ni 231.604†	527.1	599.6	17.009	µg/L	17.009	ppb	10:51:05
3	P 214.914†	591.6	671.4	636.85	µg/L	636.85	ppb	10:51:05
3	Pb 220.353†	91.4	-20.5	-5.6956	µg/L	-5.6956	ppb	10:51:05
3	S 181.975 Axial†	723.6	714.0	2211.9	µg/L	2211.9	ppb	10:51:05
3	Sb 206.836†	1.7	-2.8	-2.4165	µg/L	-2.4165	ppb	10:51:05
3	Se 196.026†	1.2	-10.5	2.71	µg/L	2.71	ppb	10:51:05
3	SiO2†	213603.6	217113.7	39234	µg/L	39234	ppb	10:50:45
3	Si 251.611†	618992.0	634385.7	18275	µg/L	18275	ppb	10:50:45
3	Sn 189.927†	-65.4	-67.9	2.3881	µg/L	2.3881	ppb	10:51:05
3	Ti 334.940†	-6837.7	-8561.0	-2.2052	µg/L	-2.2052	ppb	10:50:45
3	Tl 190.801†	-10.8	6.9	-6.9788	µg/L	-6.9788	ppb	10:51:05
3	U 367.007†	1173.8	911.0	5.2217	µg/L	5.2217	ppb	10:50:45
3	V 292.402†	-433.4	-747.2	0.2712	µg/L	0.2712	ppb	10:50:45
3	Zn 213.857†	1413.6	899.4	4.6408	µg/L	4.6408	ppb	10:51:05

Mean Data: 335304007|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1256428.0	97.119	%	0.4717				0.49%
Sc RADIAL	22820.2	96.1	%	1.14				1.19%
Y 371.029	714071.8	93.495	%	0.4310				0.46%
Ag 328.068†	1183.6	-0.1195	µg/L	0.65302	-0.1195	ppb	0.65302	546.35%
Al 396.153Radial†	-51.4	38.960	µg/L	32.2563	38.960	ppb	32.2563	82.79%
As 188.979†	3.6	10.366	µg/L	8.9974	10.366	ppb	8.9974	86.80%
B 249.677†	133349.1	1427.4	µg/L	1.24	1427.4	ppb	1.24	0.09%
Ba 233.527†	159536.6	2200.1	µg/L	3.18	2200.1	ppb	3.18	0.14%
Be 313.107†	-1816.2	-0.7673	µg/L	0.03025	-0.7673	ppb	0.03025	3.94%
Ca 317.933Radial†	457491.8	288370	µg/L	2878.7	288370	ppb	2878.7	1.00%
Cd 226.502†	261.4	-0.8444	µg/L	0.21054	-0.8444	ppb	0.21054	24.93%
Co 228.616†	176.9	5.9165	µg/L	0.27466	5.9165	ppb	0.27466	4.64%
Cr 267.716†	91.2	1.6885	µg/L	0.03396	1.6885	ppb	0.03396	2.01%
Cu 324.752†	-1074.3	-1.5941	µg/L	0.59580	-1.5941	ppb	0.59580	37.37%
Fe 238.204 Radial†	11727.9	36360	µg/L	100.9	36360	ppb	100.9	0.28%
K 766.490 Radial†	18568.2	25296	µg/L	206.3	25296	ppb	206.3	0.82%
Mg 279.077 IEC†	13945.6	89864	µg/L	639.5	89864	ppb	639.5	0.71%
Mn 257.610†	221467.8	634.91	µg/L	1.657	634.91	ppb	1.657	0.26%
Mo 202.031†	-79.2	-4.1082	µg/L	0.16395	-4.1082	ppb	0.16395	3.99%
Na 589.592 Radial†	240293.8	334120	µg/L	3183.8	334120	ppb	3183.8	0.95%

Ni 231.604†	585.4	16.603	µg/L	0.3524	16.603	ppb	0.3524	2.12%
P 214.914†	679.0	644.71	µg/L	11.272	644.71	ppb	11.272	1.75%
Pb 220.353†	-30.2	-7.6897	µg/L	2.36762	-7.6897	ppb	2.36762	30.79%
S 181.975 Axial†	721.6	2235.8	µg/L	26.70	2235.8	ppb	26.70	1.19%
Sb 206.836†	-4.0	-3.1520	µg/L	1.25763	-3.1520	ppb	1.25763	39.90%
Se 196.026†	-7.3	6.93	µg/L	4.733	6.93	ppb	4.733	68.34%
SiO2†	216832.7	39183	µg/L	73.6	39183	ppb	73.6	0.19%
Si 251.611†	633598.3	18252	µg/L	32.3	18252	ppb	32.3	0.18%
Sn 189.927†	-67.3	2.7190	µg/L	2.06151	2.7190	ppb	2.06151	75.82%
Sr 421.552†	79614.0	917.05	µg/L	5.803	917.05	ppb	5.803	0.63%
Ti 334.940†	-8428.4	-1.8929	µg/L	0.33307	-1.8929	ppb	0.33307	17.60%
Tl 190.801†	6.3	-7.8060	µg/L	1.18373	-7.8060	ppb	1.18373	15.16%
U 367.007†	876.5	-4.4486	µg/L	10.11227	-4.4486	ppb	10.11227	227.31%
V 292.402†	-733.7	0.3539	µg/L	0.22870	0.3539	ppb	0.22870	64.63%
Zn 213.857†	903.7	4.7169	µg/L	0.08795	4.7169	ppb	0.08795	1.86%

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Sequence No.: 15 **Autosampler Location: 313**
Sample ID: 335304008|1339673|1 **Date Collected: 11/6/2013 10:51:14**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304008|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22976.1	22976.1	96.8	%			10:51:46
1	Al 396.153Radial†	-135.6	-32.1	78.665	µg/L	78.665	ppb	10:51:46
1	Ca 317.933Radial†	440936.3	455567.9	287150	µg/L	287150	ppb	10:51:44
1	Fe 238.204 Radial†	11166.7	11506.3	35673	µg/L	35673	ppb	10:51:46
1	K 766.490 Radial†	18476.5	18373.8	25028	µg/L	25028	ppb	10:51:46
1	Mg 279.077 IEC†	13465.1	13911.3	89642	µg/L	89642	ppb	10:51:46
1	Na 589.592 Radial†	234935.2	242823.7	337630	µg/L	337630	ppb	10:51:44
1	Sr 421.552†	76392.0	78914.4	908.98	µg/L	908.98	ppb	10:51:44
1	Sc 361.383	1260175.0	1260175.0	97.408	%			10:52:12
1	Y 371.029	716222.6	716222.6	93.777	%			10:52:12
1	Ag 328.068†	1752.4	1123.8	-0.4850	µg/L	-0.4850	ppb	10:52:12
1	As 188.979†	-3.4	0.1	3.7154	µg/L	3.7154	ppb	10:52:32
1	B 249.677†	128341.0	131478.5	1408.0	µg/L	1408.0	ppb	10:52:12
1	Ba 233.527†	154104.4	158292.4	2182.9	µg/L	2182.9	ppb	10:52:12
1	Be 313.107†	-9437.7	-1760.8	-0.7439	µg/L	-0.7439	ppb	10:52:12
1	Cd 226.502†	162.1	271.2	-0.6090	µg/L	-0.6090	ppb	10:52:32
1	Co 228.616†	60.8	163.8	5.5405	µg/L	5.5405	ppb	10:52:32
1	Cr 267.716†	193.3	85.1	1.5584	µg/L	1.5584	ppb	10:52:32
1	Cu 324.752†	2865.0	-1236.0	-2.7832	µg/L	-2.7832	ppb	10:52:12
1	Mn 257.610†	212019.4	217468.5	623.39	µg/L	623.39	ppb	10:52:12
1	Mo 202.031†	-86.2	-76.8	-3.8654	µg/L	-3.8654	ppb	10:52:32
1	Ni 231.604†	488.9	560.9	15.904	µg/L	15.904	ppb	10:52:32
1	P 214.914†	591.7	672.1	638.55	µg/L	638.55	ppb	10:52:32
1	Pb 220.353†	98.8	-12.8	-4.0468	µg/L	-4.0468	ppb	10:52:32
1	S 181.975 Axial†	719.7	710.8	2202.0	µg/L	2202.0	ppb	10:52:32
1	Sb 206.836†	-0.0	-4.6	-3.4963	µg/L	-3.4963	ppb	10:52:32
1	Se 196.026†	11.7	0.2	16.4	µg/L	16.4	ppb	10:52:32
1	SiO2†	211504.2	215194.2	38887	µg/L	38887	ppb	10:52:12
1	Si 251.611†	612258.2	628155.7	18095	µg/L	18095	ppb	10:52:12
1	Sn 189.927†	-72.8	-75.5	-0.6902	µg/L	-0.6902	ppb	10:52:32
1	Ti 334.940†	-6663.4	-8389.6	-1.8813	µg/L	-1.8813	ppb	10:52:12
1	Tl 190.801†	-10.7	7.0	-6.8051	µg/L	-6.8051	ppb	10:52:32
1	U 367.007†	1143.8	881.5	0.7590	µg/L	0.7590	ppb	10:52:12
1	V 292.402†	-518.0	-834.5	-0.4486	µg/L	-0.4486	ppb	10:52:12
1	Zn 213.857†	1387.4	874.0	4.4414	µg/L	4.4414	ppb	10:52:32
2	Sc RADIAL	22725.9	22725.9	95.7	%			10:51:50
2	Al 396.153Radial†	-157.8	-56.8	28.151	µg/L	28.151	ppb	10:51:50
2	Ca 317.933Radial†	440009.1	459616.5	289700	µg/L	289700	ppb	10:51:48
2	Fe 238.204 Radial†	11071.5	11533.9	35759	µg/L	35759	ppb	10:51:50
2	K 766.490 Radial†	18170.9	18264.7	24879	µg/L	24879	ppb	10:51:50
2	Mg 279.077 IEC†	13280.7	13871.9	89388	µg/L	89388	ppb	10:51:50
2	Na 589.592 Radial†	231549.4	241959.6	336430	µg/L	336430	ppb	10:51:48
2	Sr 421.552†	76260.5	79646.2	917.41	µg/L	917.41	ppb	10:51:48
2	Sc 361.383	1233325.2	1233325.2	95.333	%			10:52:34
2	Y 371.029	701031.9	701031.9	91.788	%			10:52:34
2	Ag 328.068†	1848.8	1264.1	0.3754	µg/L	0.3754	ppb	10:52:34
2	As 188.979†	-7.6	-4.3	-4.7063	µg/L	-4.7063	ppb	10:52:54
2	B 249.677†	125895.6	131781.7	1411.3	µg/L	1411.3	ppb	10:52:34
2	Ba 233.527†	150808.7	158279.5	2182.7	µg/L	2182.7	ppb	10:52:34
2	Be 313.107†	-9146.6	-1666.4	-0.7040	µg/L	-0.7040	ppb	10:52:34
2	Cd 226.502†	153.1	265.3	-0.7074	µg/L	-0.7074	ppb	10:52:54
2	Co 228.616†	62.5	167.0	5.6291	µg/L	5.6291	ppb	10:52:54
2	Cr 267.716†	191.2	87.1	1.5911	µg/L	1.5911	ppb	10:52:54
2	Cu 324.752†	2931.5	-1102.3	-1.8615	µg/L	-1.8615	ppb	10:52:34
2	Mn 257.610†	207710.6	217687.3	624.03	µg/L	624.03	ppb	10:52:34
2	Mo 202.031†	-84.7	-77.2	-3.9126	µg/L	-3.9126	ppb	10:52:54
2	Ni 231.604†	473.7	555.9	15.760	µg/L	15.760	ppb	10:52:54
2	P 214.914†	582.5	675.7	642.10	µg/L	642.10	ppb	10:52:54
2	Pb 220.353†	94.5	-15.1	-4.5448	µg/L	-4.5448	ppb	10:52:54

2	S 181.975 Axial†	727.5	735.0	2277.9	µg/L	2277.9	ppb	10:52:54
2	Sb 206.836†	7.5	3.3	1.4186	µg/L	1.4186	ppb	10:52:54
2	Se 196.026†	7.8	-3.7	11.3	µg/L	11.3	ppb	10:52:54
2	SiO2†	207032.8	215230.9	38894	µg/L	38894	ppb	10:52:34
2	Si 251.611†	600410.8	629412.0	18131	µg/L	18131	ppb	10:52:34
2	Sn 189.927†	-66.5	-70.5	1.5697	µg/L	1.5697	ppb	10:52:54
2	Ti 334.940†	-6463.1	-8328.4	-1.6460	µg/L	-1.6460	ppb	10:52:34
2	Tl 190.801†	-13.4	3.9	-10.635	µg/L	-10.635	ppb	10:52:54
2	U 367.007†	1173.4	938.1	15.842	µg/L	15.842	ppb	10:52:34
2	V 292.402†	-330.6	-649.6	0.8636	µg/L	0.8636	ppb	10:52:34
2	Zn 213.857†	1412.5	931.4	5.1459	µg/L	5.1459	ppb	10:52:54
3	Sc RADIAL	23013.9	23013.9	96.9	%			10:51:54
3	Al 396.153Radial†	-145.5	-42.1	54.532	µg/L	54.532	ppb	10:51:54
3	Ca 317.933Radial†	431823.8	445417.5	280750	µg/L	280750	ppb	10:51:52
3	Fe 238.204 Radial†	11237.5	11560.4	35841	µg/L	35841	ppb	10:51:54
3	K 766.490 Radial†	18460.8	18326.1	24967	µg/L	24967	ppb	10:51:54
3	Mg 279.077 IEC†	13407.8	13829.3	89114	µg/L	89114	ppb	10:51:54
3	Na 589.592 Radial†	228939.9	236239.3	328480	µg/L	328480	ppb	10:51:52
3	Sr 421.552†	75340.3	77699.6	895.00	µg/L	895.00	ppb	10:51:52
3	Sc 361.383	1262416.6	1262416.6	97.582	%			10:52:57
3	Y 371.029	717608.9	717608.9	93.958	%			10:52:57
3	Ag 328.068†	1896.7	1268.5	0.6510	µg/L	0.6510	ppb	10:52:57
3	As 188.979†	-2.6	1.0	5.3100	µg/L	5.3100	ppb	10:53:17
3	B 249.677†	128215.9	131116.4	1403.1	µg/L	1403.1	ppb	10:52:57
3	Ba 233.527†	153412.3	157302.2	2169.3	µg/L	2169.3	ppb	10:52:57
3	Be 313.107†	-9345.4	-1649.1	-0.6967	µg/L	-0.6967	ppb	10:52:57
3	Cd 226.502†	142.1	250.4	-0.9411	µg/L	-0.9411	ppb	10:53:17
3	Co 228.616†	65.3	168.4	5.6625	µg/L	5.6625	ppb	10:53:17
3	Cr 267.716†	179.8	70.8	1.3165	µg/L	1.3165	ppb	10:53:17
3	Cu 324.752†	3009.0	-1093.7	-1.8027	µg/L	-1.8027	ppb	10:52:57
3	Mn 257.610†	210993.3	216030.4	619.28	µg/L	619.28	ppb	10:52:57
3	Mo 202.031†	-81.4	-71.7	-3.3166	µg/L	-3.3166	ppb	10:53:17
3	Ni 231.604†	519.8	591.7	16.786	µg/L	16.786	ppb	10:53:17
3	P 214.914†	572.2	651.1	616.88	µg/L	616.88	ppb	10:53:17
3	Pb 220.353†	68.5	-44.0	-10.551	µg/L	-10.551	ppb	10:53:17
3	S 181.975 Axial†	719.6	709.3	2198.1	µg/L	2198.1	ppb	10:53:17
3	Sb 206.836†	4.7	0.3	-0.4749	µg/L	-0.4749	ppb	10:53:17
3	Se 196.026†	8.2	-3.5	11.7	µg/L	11.7	ppb	10:53:17
3	SiO2†	210629.8	213912.5	38656	µg/L	38656	ppb	10:52:57
3	Si 251.611†	610443.1	625179.5	18010	µg/L	18010	ppb	10:52:57
3	Sn 189.927†	-59.7	-61.9	4.1102	µg/L	4.1102	ppb	10:53:17
3	Ti 334.940†	-6500.9	-8210.9	-1.8674	µg/L	-1.8674	ppb	10:52:57
3	Tl 190.801†	-15.5	2.1	-12.397	µg/L	-12.397	ppb	10:53:17
3	U 367.007†	1134.8	870.2	-1.9556	µg/L	-1.9556	ppb	10:52:57
3	V 292.402†	-485.7	-800.5	-0.1818	µg/L	-0.1818	ppb	10:52:57
3	Zn 213.857†	1395.8	880.2	4.5036	µg/L	4.5036	ppb	10:53:17

Mean Data: 335304008|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1251972.3	96.774	%	1.2513				1.29%
Sc RADIAL	22905.3	96.5	%	0.66				0.68%
Y 371.029	711621.1	93.174	%	1.2041				1.29%
Ag 328.068†	1218.8	0.1805	µg/L	0.59255	0.1805	ppb	0.59255	328.35%
Al 396.153Radial†	-43.7	53.783	µg/L	25.2656	53.783	ppb	25.2656	46.98%
As 188.979†	-1.1	1.4397	µg/L	5.38200	1.4397	ppb	5.38200	373.82%
B 249.677†	131458.9	1407.5	µg/L	4.13	1407.5	ppb	4.13	0.29%
Ba 233.527†	157958.0	2178.3	µg/L	7.84	2178.3	ppb	7.84	0.36%
Be 313.107†	-1692.1	-0.7149	µg/L	0.02542	-0.7149	ppb	0.02542	3.56%
Ca 317.933Radial†	453534.0	285870	µg/L	4610.9	285870	ppb	4610.9	1.61%
Cd 226.502†	262.3	-0.7525	µg/L	0.17056	-0.7525	ppb	0.17056	22.67%
Co 228.616†	166.4	5.6107	µg/L	0.06305	5.6107	ppb	0.06305	1.12%
Cr 267.716†	81.0	1.4887	µg/L	0.14998	1.4887	ppb	0.14998	10.07%
Cu 324.752†	-1144.0	-2.1492	µg/L	0.54991	-2.1492	ppb	0.54991	25.59%
Fe 238.204 Radial†	11533.5	35758	µg/L	83.9	35758	ppb	83.9	0.23%
K 766.490 Radial†	18321.5	24958	µg/L	74.7	24958	ppb	74.7	0.30%
Mg 279.077 IEC†	13870.8	89382	µg/L	264.1	89382	ppb	264.1	0.30%
Mn 257.610†	217062.1	622.23	µg/L	2.579	622.23	ppb	2.579	0.41%
Mo 202.031†	-75.2	-3.6982	µg/L	0.33129	-3.6982	ppb	0.33129	8.96%
Na 589.592 Radial†	240340.9	334180	µg/L	4975.4	334180	ppb	4975.4	1.49%

Ni 231.604†	569.5	16.150	µg/L	0.5555	16.150	ppb	0.5555	3.44%
P 214.914†	666.3	632.51	µg/L	13.651	632.51	ppb	13.651	2.16%
Pb 220.353†	-24.0	-6.3807	µg/L	3.61971	-6.3807	ppb	3.61971	56.73%
S 181.975 Axial†	718.4	2226.0	µg/L	45.00	2226.0	ppb	45.00	2.02%
Sb 206.836†	-0.3	-0.8509	µg/L	2.47895	-0.8509	ppb	2.47895	291.34%
Se 196.026†	-2.3	13.1	µg/L	2.81	13.1	ppb	2.81	21.43%
SiO2†	214779.2	38812	µg/L	135.7	38812	ppb	135.7	0.35%
Si 251.611†	627582.4	18079	µg/L	62.6	18079	ppb	62.6	0.35%
Sn 189.927†	-69.3	1.6632	µg/L	2.40157	1.6632	ppb	2.40157	144.40%
Sr 421.552†	78753.4	907.13	µg/L	11.318	907.13	ppb	11.318	1.25%
Ti 334.940†	-8309.6	-1.7982	µg/L	0.13201	-1.7982	ppb	0.13201	7.34%
Tl 190.801†	4.4	-9.9455	µg/L	2.85893	-9.9455	ppb	2.85893	28.75%
U 367.007†	896.6	4.8816	µg/L	9.58815	4.8816	ppb	9.58815	196.41%
V 292.402†	-761.5	0.0777	µg/L	0.69353	0.0777	ppb	0.69353	892.49%
Zn 213.857†	895.2	4.6970	µg/L	0.39000	4.6970	ppb	0.39000	8.30%

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Sequence No.: 16 **Autosampler Location: 314**
Sample ID: 335304009|1339673|1 **Date Collected: 11/6/2013 10:53:25**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304009|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23539.8	23539.8	99.1	%			10:53:55
1	Al 396.153Radial†	676.9	790.7	1715.4	µg/L	1715.4	ppb	10:54:15
1	Ca 317.933Radial†	177210.6	178656.3	112610	µg/L	112610	ppb	10:53:55
1	Fe 238.204 Radial†	957.4	932.7	2891.5	µg/L	2891.5	ppb	10:54:15
1	K 766.490 Radial†	3160.9	2468.8	3372.7	µg/L	3372.7	ppb	10:53:55
1	Mg 279.077 IEC†	6564.7	6618.2	42644	µg/L	42644	ppb	10:54:15
1	Na 589.592 Radial†	16702.9	16895.6	23492	µg/L	23492	ppb	10:53:55
1	Sr 421.552†	68157.3	68718.2	792.60	µg/L	792.60	ppb	10:53:55
1	Sc 361.383	1312116.8	1312116.8	101.42	%			10:55:16
1	Y 371.029	757159.3	757159.3	99.137	%			10:55:16
1	Ag 328.068†	1026.6	336.9	-0.7465	µg/L	-0.7465	ppb	10:55:16
1	As 188.979†	-4.3	-0.6	-0.8615	µg/L	-0.8615	ppb	10:55:37
1	B 249.677†	9898.7	9482.5	99.715	µg/L	99.715	ppb	10:55:16
1	Ba 233.527†	20776.1	20572.2	283.73	µg/L	283.73	ppb	10:55:16
1	Be 313.107†	-8139.9	-97.7	-0.0413	µg/L	-0.0413	ppb	10:55:16
1	Cd 226.502†	-121.7	-15.2	-0.6031	µg/L	-0.6031	ppb	10:55:37
1	Co 228.616†	-46.2	55.9	1.6816	µg/L	1.6816	ppb	10:55:37
1	Cr 267.716†	249.7	132.8	1.9402	µg/L	1.9402	ppb	10:55:37
1	Cu 324.752†	4072.2	-162.2	-0.4445	µg/L	-0.4445	ppb	10:55:16
1	Mn 257.610†	78604.2	77309.1	220.94	µg/L	220.94	ppb	10:55:16
1	Mo 202.031†	-20.5	-8.5	0.8589	µg/L	0.8589	ppb	10:55:37
1	Ni 231.604†	72.9	130.8	3.7384	µg/L	3.7384	ppb	10:55:37
1	P 214.914†	40.8	104.9	103.59	µg/L	103.59	ppb	10:55:37
1	Pb 220.353†	118.3	2.4	0.4204	µg/L	0.4204	ppb	10:55:37
1	S 181.975 Axial†	2639.5	2574.4	8093.2	µg/L	8093.2	ppb	10:55:37
1	Sb 206.836†	1.3	-3.2	-2.0494	µg/L	-2.0494	ppb	10:55:37
1	Se 196.026†	10.5	-1.5	-0.051	µg/L	-0.051	ppb	10:55:37
1	SiO2†	126125.2	122417.8	22122	µg/L	22122	ppb	10:55:16
1	Si 251.611†	363549.2	358054.8	10312	µg/L	10312	ppb	10:55:16
1	Sn 189.927†	-49.1	-49.2	-8.3646	µg/L	-8.3646	ppb	10:55:37
1	Ti 334.940†	11395.0	9686.2	23.170	µg/L	23.170	ppb	10:55:16
1	Tl 190.801†	-10.7	7.4	3.1927	µg/L	3.1927	ppb	10:55:37
1	U 367.007†	551.9	251.4	30.033	µg/L	30.033	ppb	10:55:16
1	V 292.402†	979.9	663.4	5.0821	µg/L	5.0821	ppb	10:55:16
1	Zn 213.857†	1903.7	1326.7	15.054	µg/L	15.054	ppb	10:55:37
2	Sc RADIAL	23358.5	23358.5	98.4	%			10:54:17
2	Al 396.153Radial†	690.1	809.4	1754.9	µg/L	1754.9	ppb	10:54:37
2	Ca 317.933Radial†	176677.8	179502.1	113140	µg/L	113140	ppb	10:54:17
2	Fe 238.204 Radial†	944.3	926.9	2873.5	µg/L	2873.5	ppb	10:54:37
2	K 766.490 Radial†	3139.4	2471.7	3377.3	µg/L	3377.3	ppb	10:54:17
2	Mg 279.077 IEC†	6504.0	6607.9	42578	µg/L	42578	ppb	10:54:37
2	Na 589.592 Radial†	16295.4	16612.1	23098	µg/L	23098	ppb	10:54:17
2	Sr 421.552†	68242.3	69338.1	799.76	µg/L	799.76	ppb	10:54:17
2	Sc 361.383	1316831.7	1316831.7	101.79	%			10:55:39
2	Y 371.029	758318.3	758318.3	99.288	%			10:55:39
2	Ag 328.068†	988.4	295.8	-1.0251	µg/L	-1.0251	ppb	10:55:39
2	As 188.979†	0.5	4.2	8.0990	µg/L	8.0990	ppb	10:55:59
2	B 249.677†	10898.4	10429.7	110.97	µg/L	110.97	ppb	10:55:39
2	Ba 233.527†	22902.4	22587.9	311.54	µg/L	311.54	ppb	10:55:39
2	Be 313.107†	-8367.9	-292.9	-0.1237	µg/L	-0.1237	ppb	10:55:39
2	Cd 226.502†	-110.3	-3.6	-0.4272	µg/L	-0.4272	ppb	10:55:59
2	Co 228.616†	-38.7	63.4	1.9054	µg/L	1.9054	ppb	10:55:59
2	Cr 267.716†	260.5	142.5	2.1146	µg/L	2.1146	ppb	10:55:59
2	Cu 324.752†	4096.6	-152.7	-0.3879	µg/L	-0.3879	ppb	10:55:39
2	Mn 257.610†	87044.0	85323.1	243.98	µg/L	243.98	ppb	10:55:39
2	Mo 202.031†	-25.7	-13.5	0.2949	µg/L	0.2949	ppb	10:55:59
2	Ni 231.604†	98.5	155.8	4.4550	µg/L	4.4550	ppb	10:55:59
2	P 214.914†	51.2	115.0	113.92	µg/L	113.92	ppb	10:55:59
2	Pb 220.353†	108.6	-7.6	-1.6465	µg/L	-1.6465	ppb	10:55:59

2	S 181.975 Axial†	2770.7	2694.0	8469.7	µg/L	8469.7	ppb	10:55:59
2	Sb 206.836†	1.8	-2.8	-1.7612	µg/L	-1.7612	ppb	10:55:59
2	Se 196.026†	14.2	2.1	4.60	µg/L	4.60	ppb	10:55:59
2	SiO2†	138635.0	134262.7	24262	µg/L	24262	ppb	10:55:39
2	Si 251.611†	400534.7	393107.4	11322	µg/L	11322	ppb	10:55:39
2	Sn 189.927†	-44.6	-44.6	-6.4841	µg/L	-6.4841	ppb	10:55:59
2	Ti 334.940†	12260.6	10496.4	24.699	µg/L	24.699	ppb	10:55:39
2	Tl 190.801†	-17.4	0.9	-4.7189	µg/L	-4.7189	ppb	10:55:59
2	U 367.007†	511.4	209.7	18.206	µg/L	18.206	ppb	10:55:39
2	V 292.402†	981.7	661.6	5.0526	µg/L	5.0526	ppb	10:55:39
2	Zn 213.857†	1974.1	1389.2	15.826	µg/L	15.826	ppb	10:55:59
3	Sc RADIAL	23025.8	23025.8	97.0	%			10:54:39
3	Al 396.153Radial†	673.6	802.6	1740.6	µg/L	1740.6	ppb	10:54:59
3	Ca 317.933Radial†	174042.7	179379.5	113060	µg/L	113060	ppb	10:54:39
3	Fe 238.204 Radial†	939.8	936.1	2902.2	µg/L	2902.2	ppb	10:54:59
3	K 766.490 Radial†	3128.9	2507.0	3425.4	µg/L	3425.4	ppb	10:54:39
3	Mg 279.077 IEC†	6501.4	6700.7	43176	µg/L	43176	ppb	10:54:59
3	Na 589.592 Radial†	16284.0	16839.7	23415	µg/L	23415	ppb	10:54:39
3	Sr 421.552†	67427.4	69500.1	801.63	µg/L	801.63	ppb	10:54:39
3	Sc 361.383	1307923.1	1307923.1	101.10	%			10:56:01
3	Y 371.029	753887.6	753887.6	98.708	%			10:56:01
3	Ag 328.068†	1116.4	429.1	-0.1152	µg/L	-0.1152	ppb	10:56:01
3	As 188.979†	1.5	5.2	10.006	µg/L	10.006	ppb	10:56:21
3	B 249.677†	10700.1	10306.5	109.39	µg/L	109.39	ppb	10:56:01
3	Ba 233.527†	22804.8	22644.6	312.32	µg/L	312.32	ppb	10:56:01
3	Be 313.107†	-8430.7	-411.0	-0.1736	µg/L	-0.1736	ppb	10:56:01
3	Cd 226.502†	-106.8	-0.8	-0.3891	µg/L	-0.3891	ppb	10:56:21
3	Co 228.616†	-39.4	62.5	1.8794	µg/L	1.8794	ppb	10:56:21
3	Cr 267.716†	271.2	154.8	2.3439	µg/L	2.3439	ppb	10:56:21
3	Cu 324.752†	4001.2	-219.5	-0.8410	µg/L	-0.8410	ppb	10:56:01
3	Mn 257.610†	86360.8	85229.8	243.70	µg/L	243.70	ppb	10:56:01
3	Mo 202.031†	-29.0	-17.0	-0.0634	µg/L	-0.0634	ppb	10:56:21
3	Ni 231.604†	94.2	152.2	4.3514	µg/L	4.3514	ppb	10:56:21
3	P 214.914†	36.8	101.1	99.652	µg/L	99.652	ppb	10:56:21
3	Pb 220.353†	110.3	-5.2	-1.1270	µg/L	-1.1270	ppb	10:56:21
3	S 181.975 Axial†	2779.2	2720.9	8554.4	µg/L	8554.4	ppb	10:56:21
3	Sb 206.836†	0.3	-4.2	-2.6785	µg/L	-2.6785	ppb	10:56:21
3	Se 196.026†	18.1	6.1	9.76	µg/L	9.76	ppb	10:56:21
3	SiO2†	138156.4	134716.9	24344	µg/L	24344	ppb	10:56:01
3	Si 251.611†	398562.7	393837.0	11343	µg/L	11343	ppb	10:56:01
3	Sn 189.927†	-48.0	-48.2	-7.9443	µg/L	-7.9443	ppb	10:56:21
3	Ti 334.940†	12285.2	10602.8	24.896	µg/L	24.896	ppb	10:56:01
3	Tl 190.801†	-16.4	1.8	-3.7175	µg/L	-3.7175	ppb	10:56:21
3	U 367.007†	442.7	145.2	-0.2148	µg/L	-0.2148	ppb	10:56:01
3	V 292.402†	1038.0	724.0	5.4770	µg/L	5.4770	ppb	10:56:01
3	Zn 213.857†	1985.3	1413.5	16.110	µg/L	16.110	ppb	10:56:21

Mean Data: 335304009|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1312290.5	101.44	%	0.345				0.34%
Sc RADIAL	23308.1	98.2	%	1.10				1.12%
Y 371.029	756455.1	99.044	%	0.3009				0.30%
Ag 328.068†	353.9	-0.6289	µg/L	0.46617	-0.6289	ppb	0.46617	74.12%
Al 396.153Radial†	800.9	1737.0	µg/L	20.01	1737.0	ppb	20.01	1.15%
As 188.979†	2.9	5.7477	µg/L	5.80264	5.7477	ppb	5.80264	100.96%
B 249.677†	10072.9	106.69	µg/L	6.092	106.69	ppb	6.092	5.71%
Ba 233.527†	21934.9	302.53	µg/L	16.282	302.53	ppb	16.282	5.38%
Be 313.107†	-267.2	-0.1129	µg/L	0.06685	-0.1129	ppb	0.06685	59.22%
Ca 317.933Radial†	179179.3	112940	µg/L	288.1	112940	ppb	288.1	0.26%
Cd 226.502†	-6.6	-0.4731	µg/L	0.11411	-0.4731	ppb	0.11411	24.12%
Co 228.616†	60.6	1.8221	µg/L	0.12239	1.8221	ppb	0.12239	6.72%
Cr 267.716†	143.4	2.1329	µg/L	0.20248	2.1329	ppb	0.20248	9.49%
Cu 324.752†	-178.1	-0.5578	µg/L	0.24688	-0.5578	ppb	0.24688	44.26%
Fe 238.204 Radial†	931.9	2889.1	µg/L	14.49	2889.1	ppb	14.49	0.50%
K 766.490 Radial†	2482.5	3391.8	µg/L	29.20	3391.8	ppb	29.20	0.86%
Mg 279.077 IEC†	6642.3	42800	µg/L	327.9	42800	ppb	327.9	0.77%
Mn 257.610†	82620.7	236.21	µg/L	13.223	236.21	ppb	13.223	5.60%
Mo 202.031†	-13.0	0.3635	µg/L	0.46497	0.3635	ppb	0.46497	127.92%
Na 589.592 Radial†	16782.5	23335	µg/L	208.7	23335	ppb	208.7	0.89%

Ni 231.604†	146.3	4.1816	µg/L	0.38730	4.1816	ppb	0.38730	9.26%
P 214.914†	107.0	105.72	µg/L	7.371	105.72	ppb	7.371	6.97%
Pb 220.353†	-3.5	-0.7844	µg/L	1.07524	-0.7844	ppb	1.07524	137.08%
S 181.975 Axial†	2663.1	8372.4	µg/L	245.51	8372.4	ppb	245.51	2.93%
Sb 206.836†	-3.4	-2.1630	µg/L	0.46912	-2.1630	ppb	0.46912	21.69%
Se 196.026†	2.2	4.77	µg/L	4.906	4.77	ppb	4.906	102.85%
SiO2†	130465.8	23576	µg/L	1260.2	23576	ppb	1260.2	5.35%
Si 251.611†	381666.4	10992	µg/L	589.0	10992	ppb	589.0	5.36%
Sn 189.927†	-47.3	-7.5977	µg/L	0.98702	-7.5977	ppb	0.98702	12.99%
Sr 421.552†	69185.5	798.00	µg/L	4.763	798.00	ppb	4.763	0.60%
Ti 334.940†	10261.8	24.255	µg/L	0.9448	24.255	ppb	0.9448	3.90%
Tl 190.801†	3.4	-1.7479	µg/L	4.30787	-1.7479	ppb	4.30787	246.46%
U 367.007†	202.1	16.008	µg/L	15.2434	16.008	ppb	15.2434	95.22%
V 292.402†	683.0	5.2039	µg/L	0.23698	5.2039	ppb	0.23698	4.55%
Zn 213.857†	1376.5	15.663	µg/L	0.5466	15.663	ppb	0.5466	3.49%

Sequence No.: 17 **Autosampler Location: 315**
Sample ID: 335304010|1339673|1 **Date Collected: 11/6/2013 10:56:30**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304010|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23340.6	23340.6	98.3	%			10:57:00
1	Al 396.153Radial†	-91.7	14.7	86.787	µg/L	86.787	ppb	10:57:20
1	Ca 317.933Radial†	175162.2	178098.1	112260	µg/L	112260	ppb	10:57:00
1	Fe 238.204 Radial†	306.1	278.4	863.09	µg/L	863.09	ppb	10:57:20
1	K 766.490 Radial†	3126.9	2461.5	3361.5	µg/L	3361.5	ppb	10:57:00
1	Mg 279.077 IEC†	6504.0	6612.9	42610	µg/L	42610	ppb	10:57:20
1	Na 589.592 Radial†	17503.6	17853.9	24825	µg/L	24825	ppb	10:57:00
1	Sr 421.552†	68156.3	69303.9	799.37	µg/L	799.37	ppb	10:57:00
1	Sc 361.383	1294511.9	1294511.9	100.06	%			10:58:21
1	Y 371.029	744477.2	744477.2	97.476	%			10:58:21
1	Ag 328.068†	1149.0	473.0	0.1886	µg/L	0.1886	ppb	10:58:21
1	As 188.979†	2.7	6.4	12.074	µg/L	12.074	ppb	10:58:41
1	B 249.677†	9790.6	9507.2	107.66	µg/L	107.66	ppb	10:58:21
1	Ba 233.527†	23351.1	23424.2	323.08	µg/L	323.08	ppb	10:58:21
1	Be 313.107†	-9143.3	-1209.6	-0.5111	µg/L	-0.5111	ppb	10:58:21
1	Cd 226.502†	-150.3	-45.5	-0.7907	µg/L	-0.7907	ppb	10:58:41
1	Co 228.616†	-94.6	6.9	0.3660	µg/L	0.3660	ppb	10:58:41
1	Cr 267.716†	166.7	53.2	0.4455	µg/L	0.4455	ppb	10:58:41
1	Cu 324.752†	3860.1	-319.6	-1.7984	µg/L	-1.7984	ppb	10:58:21
1	Mn 257.610†	71845.1	71608.2	204.48	µg/L	204.48	ppb	10:58:21
1	Mo 202.031†	-13.4	-1.7	1.5605	µg/L	1.5605	ppb	10:58:41
1	Ni 231.604†	-20.0	39.0	1.1135	µg/L	1.1135	ppb	10:58:41
1	P 214.914†	-60.0	4.7	3.6934	µg/L	3.6934	ppb	10:58:41
1	Pb 220.353†	88.7	-25.6	-5.4161	µg/L	-5.4161	ppb	10:58:41
1	S 181.975 Axial†	2835.4	2805.5	8821.3	µg/L	8821.3	ppb	10:58:41
1	Sb 206.836†	-0.5	-5.1	-3.1949	µg/L	-3.1949	ppb	10:58:41
1	Se 196.026†	10.4	-1.5	-0.887	µg/L	-0.887	ppb	10:58:41
1	SiO2†	104047.2	102044.7	18440	µg/L	18440	ppb	10:58:21
1	Si 251.611†	299213.8	298634.2	8600.8	µg/L	8600.8	ppb	10:58:21
1	Sn 189.927†	-46.0	-46.7	-7.4742	µg/L	-7.4742	ppb	10:58:41
1	Ti 334.940†	21.8	-1527.1	2.4583	µg/L	2.4583	ppb	10:58:21
1	Tl 190.801†	-12.7	5.3	0.5166	µg/L	0.5166	ppb	10:58:41
1	U 367.007†	505.0	212.0	29.400	µg/L	29.400	ppb	10:58:21
1	V 292.402†	464.3	161.2	1.2904	µg/L	1.2904	ppb	10:58:21
1	Zn 213.857†	1149.6	598.7	6.2959	µg/L	6.2959	ppb	10:58:41
2	Sc RADIAL	23182.3	23182.3	97.6	%			10:57:22
2	Al 396.153Radial†	-99.4	6.2	69.234	µg/L	69.234	ppb	10:57:42
2	Ca 317.933Radial†	174773.1	178916.5	112770	µg/L	112770	ppb	10:57:22
2	Fe 238.204 Radial†	308.5	283.0	877.37	µg/L	877.37	ppb	10:57:42
2	K 766.490 Radial†	3040.7	2394.9	3270.5	µg/L	3270.5	ppb	10:57:22
2	Mg 279.077 IEC†	6497.0	6651.0	42855	µg/L	42855	ppb	10:57:42
2	Na 589.592 Radial†	17258.0	17723.9	24644	µg/L	24644	ppb	10:57:22
2	Sr 421.552†	68117.0	69737.2	804.37	µg/L	804.37	ppb	10:57:22
2	Sc 361.383	1306689.1	1306689.1	101.00	%			10:58:44
2	Y 371.029	750854.7	750854.7	98.311	%			10:58:44
2	Ag 328.068†	1092.9	406.8	-0.2547	µg/L	-0.2547	ppb	10:58:44
2	As 188.979†	-0.2	3.4	6.5166	µg/L	6.5166	ppb	10:59:04
2	B 249.677†	9880.0	9504.6	107.61	µg/L	107.61	ppb	10:58:44
2	Ba 233.527†	23656.1	23508.7	324.25	µg/L	324.25	ppb	10:58:44
2	Be 313.107†	-9240.2	-1220.4	-0.5156	µg/L	-0.5156	ppb	10:58:44
2	Cd 226.502†	-141.3	-35.1	-0.6382	µg/L	-0.6382	ppb	10:59:04
2	Co 228.616†	-72.3	29.9	1.0213	µg/L	1.0213	ppb	10:59:04
2	Cr 267.716†	140.8	26.0	-0.0372	µg/L	-0.0372	ppb	10:59:04
2	Cu 324.752†	3899.9	-316.1	-1.7775	µg/L	-1.7775	ppb	10:58:44
2	Mn 257.610†	72601.2	71687.6	204.70	µg/L	204.70	ppb	10:58:44
2	Mo 202.031†	-25.1	-13.2	0.2832	µg/L	0.2832	ppb	10:59:04
2	Ni 231.604†	-15.6	43.5	1.2447	µg/L	1.2447	ppb	10:59:04
2	P 214.914†	-66.4	-1.1	-2.2168	µg/L	-2.2168	ppb	10:59:04
2	Pb 220.353†	101.4	-13.9	-2.9649	µg/L	-2.9649	ppb	10:59:04

2	S 181.975 Axial†	2812.0	2756.0	8665.4	µg/L	8665.4	ppb	10:59:04
2	Sb 206.836†	4.2	-0.4	-0.3115	µg/L	-0.3115	ppb	10:59:04
2	Se 196.026†	12.4	0.4	1.57	µg/L	1.57	ppb	10:59:04
2	SiO2†	105003.8	102022.8	18436	µg/L	18436	ppb	10:58:44
2	Si 251.611†	302131.9	298736.7	8603.8	µg/L	8603.8	ppb	10:58:44
2	Sn 189.927†	-46.2	-46.5	-7.3176	µg/L	-7.3176	ppb	10:59:04
2	Ti 334.940†	-362.8	-1908.1	1.7868	µg/L	1.7868	ppb	10:58:44
2	Tl 190.801†	-11.0	7.1	2.6943	µg/L	2.6943	ppb	10:59:04
2	U 367.007†	457.2	159.9	14.473	µg/L	14.473	ppb	10:58:44
2	V 292.402†	473.3	165.8	1.2998	µg/L	1.2998	ppb	10:58:44
2	Zn 213.857†	1164.2	602.3	6.3326	µg/L	6.3326	ppb	10:59:04
3	Sc RADIAL	23110.3	23110.3	97.3	%			10:57:44
3	Al 396.153Radial†	-108.6	-3.6	48.613	µg/L	48.613	ppb	10:58:04
3	Ca 317.933Radial†	174189.4	178874.6	112750	µg/L	112750	ppb	10:57:44
3	Fe 238.204 Radial†	296.9	272.0	843.28	µg/L	843.28	ppb	10:58:04
3	K 766.490 Radial†	2928.2	2289.0	3125.7	µg/L	3125.7	ppb	10:57:44
3	Mg 279.077 IEC†	6439.3	6612.4	42607	µg/L	42607	ppb	10:58:04
3	Na 589.592 Radial†	17179.4	17698.2	24608	µg/L	24608	ppb	10:57:44
3	Sr 421.552†	68116.7	69954.3	806.88	µg/L	806.88	ppb	10:57:44
3	Sc 361.383	1307464.3	1307464.3	101.06	%			10:59:06
3	Y 371.029	751406.4	751406.4	98.383	%			10:59:06
3	Ag 328.068†	1117.3	430.3	-0.0908	µg/L	-0.0908	ppb	10:59:06
3	As 188.979†	-4.4	-0.7	-1.2065	µg/L	-1.2065	ppb	10:59:26
3	B 249.677†	10113.9	9730.2	110.46	µg/L	110.46	ppb	10:59:06
3	Ba 233.527†	23763.4	23601.0	325.52	µg/L	325.52	ppb	10:59:06
3	Be 313.107†	-9326.0	-1299.9	-0.5492	µg/L	-0.5492	ppb	10:59:06
3	Cd 226.502†	-143.9	-37.7	-0.6713	µg/L	-0.6713	ppb	10:59:26
3	Co 228.616†	-81.7	20.6	0.7594	µg/L	0.7594	ppb	10:59:26
3	Cr 267.716†	163.1	48.0	0.3634	µg/L	0.3634	ppb	10:59:26
3	Cu 324.752†	3856.8	-361.0	-2.0903	µg/L	-2.0903	ppb	10:59:06
3	Mn 257.610†	72897.2	71937.9	205.43	µg/L	205.43	ppb	10:59:06
3	Mo 202.031†	-8.3	3.4	2.1301	µg/L	2.1301	ppb	10:59:26
3	Ni 231.604†	3.3	62.3	1.7821	µg/L	1.7821	ppb	10:59:26
3	P 214.914†	-53.4	11.9	11.004	µg/L	11.004	ppb	10:59:26
3	Pb 220.353†	89.4	-25.8	-5.4390	µg/L	-5.4390	ppb	10:59:26
3	S 181.975 Axial†	2831.8	2773.9	8721.9	µg/L	8721.9	ppb	10:59:26
3	Sb 206.836†	3.1	-1.5	-0.9731	µg/L	-0.9731	ppb	10:59:26
3	Se 196.026†	9.8	-2.1	-1.75	µg/L	-1.75	ppb	10:59:26
3	SiO2†	105447.5	102400.2	18505	µg/L	18505	ppb	10:59:06
3	Si 251.611†	303051.4	299469.2	8624.9	µg/L	8624.9	ppb	10:59:06
3	Sn 189.927†	-43.3	-43.6	-6.1651	µg/L	-6.1651	ppb	10:59:26
3	Ti 334.940†	-332.5	-1877.9	1.8457	µg/L	1.8457	ppb	10:59:06
3	Tl 190.801†	-18.8	-0.6	-6.5401	µg/L	-6.5401	ppb	10:59:26
3	U 367.007†	439.0	141.6	9.4956	µg/L	9.4956	ppb	10:59:06
3	V 292.402†	488.3	180.4	1.4174	µg/L	1.4174	ppb	10:59:06
3	Zn 213.857†	1155.5	593.1	6.2256	µg/L	6.2256	ppb	10:59:26

Mean Data: 335304010|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1302888.5	100.71	%	0.562				0.56%
Sc RADIAL	23211.1	97.8	%	0.50				0.51%
Y 371.029	748912.8	98.057	%	0.5042				0.51%
Ag 328.068†	436.7	-0.0523	µg/L	0.22415	-0.0523	ppb	0.22415	428.50%
Al 396.153Radial†	5.8	68.211	µg/L	19.1076	68.211	ppb	19.1076	28.01%
As 188.979†	3.0	5.7947	µg/L	6.66962	5.7947	ppb	6.66962	115.10%
B 249.677†	9580.7	108.58	µg/L	1.633	108.58	ppb	1.633	1.50%
Ba 233.527†	23511.3	324.29	µg/L	1.220	324.29	ppb	1.220	0.38%
Be 313.107†	-1243.3	-0.5253	µg/L	0.02082	-0.5253	ppb	0.02082	3.96%
Ca 317.933Radial†	178629.8	112590	µg/L	290.5	112590	ppb	290.5	0.26%
Cd 226.502†	-39.4	-0.7001	µg/L	0.08020	-0.7001	ppb	0.08020	11.46%
Co 228.616†	19.1	0.7156	µg/L	0.32983	0.7156	ppb	0.32983	46.09%
Cr 267.716†	42.4	0.2572	µg/L	0.25823	0.2572	ppb	0.25823	100.39%
Cu 324.752†	-332.3	-1.8887	µg/L	0.17486	-1.8887	ppb	0.17486	9.26%
Fe 238.204 Radial†	277.8	861.25	µg/L	17.121	861.25	ppb	17.121	1.99%
K 766.490 Radial†	2381.8	3252.5	µg/L	118.92	3252.5	ppb	118.92	3.66%
Mg 279.077 IEC†	6625.4	42691	µg/L	142.6	42691	ppb	142.6	0.33%
Mn 257.610†	71744.6	204.87	µg/L	0.496	204.87	ppb	0.496	0.24%
Mo 202.031†	-3.8	1.3246	µg/L	0.94579	1.3246	ppb	0.94579	71.40%
Na 589.592 Radial†	17758.7	24693	µg/L	116.0	24693	ppb	116.0	0.47%

Ni 231.604†	48.3	1.3801	µg/L	0.35427	1.3801	ppb	0.35427	25.67%
P 214.914†	5.2	4.1604	µg/L	6.62300	4.1604	ppb	6.62300	159.19%
Pb 220.353†	-21.8	-4.6067	µg/L	1.42184	-4.6067	ppb	1.42184	30.86%
S 181.975 Axial†	2778.5	8736.2	µg/L	78.93	8736.2	ppb	78.93	0.90%
Sb 206.836†	-2.3	-1.4932	µg/L	1.51042	-1.4932	ppb	1.51042	101.16%
Se 196.026†	-1.1	-0.357	µg/L	1.7235	-0.357	ppb	1.7235	482.99%
SiO2†	102155.9	18460	µg/L	38.3	18460	ppb	38.3	0.21%
Si 251.611†	298946.7	8609.8	µg/L	13.10	8609.8	ppb	13.10	0.15%
Sn 189.927†	-45.6	-6.9856	µg/L	0.71488	-6.9856	ppb	0.71488	10.23%
Sr 421.552†	69665.1	803.54	µg/L	3.821	803.54	ppb	3.821	0.48%
Ti 334.940†	-1771.0	2.0303	µg/L	0.37189	2.0303	ppb	0.37189	18.32%
Tl 190.801†	3.9	-1.1097	µg/L	4.82726	-1.1097	ppb	4.82726	434.99%
U 367.007†	171.2	17.789	µg/L	10.3582	17.789	ppb	10.3582	58.23%
V 292.402†	169.1	1.3359	µg/L	0.07077	1.3359	ppb	0.07077	5.30%
Zn 213.857†	598.0	6.2847	µg/L	0.05440	6.2847	ppb	0.05440	0.87%

Sequence No.: 18
Sample ID: 335304005|1339673|5
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 316
Date Collected: 11/6/2013 10:59:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304005|1339673|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23565.4	23565.4	99.3	%			11:00:05
1	Al 396.153Radial†	-89.9	17.4	41.376	µg/L	41.376	ppb	11:00:25
1	Ca 317.933Radial†	15145.1	15176.7	9563.7	µg/L	9563.7	ppb	11:00:25
1	Fe 238.204 Radial†	1119.8	1095.2	3395.5	µg/L	3395.5	ppb	11:00:25
1	K 766.490 Radial†	35831.4	35381.8	48366	µg/L	48366	ppb	11:00:05
1	Mg 279.077 IEC†	1976.6	1988.3	12812	µg/L	12812	ppb	11:00:25
1	Na 589.592 Radial†	73934.0	74539.3	103640	µg/L	103640	ppb	11:00:05
1	Sr 421.552†	5360.7	5374.2	61.981	µg/L	61.981	ppb	11:00:05
1	Sc 361.383	1331162.5	1331162.5	102.90	%			11:01:27
1	Y 371.029	762458.9	762458.9	99.830	%			11:01:27
1	Ag 328.068†	810.3	112.3	0.4448	µg/L	0.4448	ppb	11:01:29
1	As 188.979†	0.0	3.7	7.2097	µg/L	7.2097	ppb	11:01:49
1	B 249.677†	53475.2	51693.2	578.05	µg/L	578.05	ppb	11:01:29
1	Ba 233.527†	8341.3	8194.2	112.98	µg/L	112.98	ppb	11:01:29
1	Be 313.107†	-9293.0	-1103.5	-0.4662	µg/L	-0.4662	ppb	11:01:29
1	Cd 226.502†	-95.9	11.6	-0.2625	µg/L	-0.2625	ppb	11:01:49
1	Co 228.616†	-17.5	84.5	2.4387	µg/L	2.4387	ppb	11:01:49
1	Cr 267.716†	184.7	66.1	1.1544	µg/L	1.1544	ppb	11:01:49
1	Cu 324.752†	4462.7	159.9	1.6360	µg/L	1.6360	ppb	11:01:29
1	Mn 257.610†	10312.1	9829.8	27.937	µg/L	27.937	ppb	11:01:29
1	Mo 202.031†	-18.9	-6.6	-0.1205	µg/L	-0.1205	ppb	11:01:49
1	Ni 231.604†	420.5	467.7	13.400	µg/L	13.400	ppb	11:01:49
1	P 214.914†	909.3	948.4	963.40	µg/L	963.40	ppb	11:01:49
1	Pb 220.353†	107.1	-10.1	-2.2428	µg/L	-2.2428	ppb	11:01:49
1	S 181.975 Axial†	287.8	251.6	790.07	µg/L	790.07	ppb	11:01:49
1	Sb 206.836†	-1.4	-5.9	-3.7220	µg/L	-3.7220	ppb	11:01:49
1	Se 196.026†	12.9	0.7	2.48	µg/L	2.48	ppb	11:01:49
1	SiO2†	45308.1	42095.6	7607.0	µg/L	7607.0	ppb	11:01:29
1	Si 251.611†	125677.3	121747.9	3506.8	µg/L	3506.8	ppb	11:01:29
1	Sn 189.927†	9.5	8.5	4.4415	µg/L	4.4415	ppb	11:01:49
1	Ti 334.940†	2402.5	786.0	1.8123	µg/L	1.8123	ppb	11:01:29
1	Tl 190.801†	-19.1	-0.6	-1.2554	µg/L	-1.2554	ppb	11:01:49
1	U 367.007†	420.1	115.5	12.321	µg/L	12.321	ppb	11:01:29
1	V 292.402†	319.9	8.1	0.5746	µg/L	0.5746	ppb	11:01:29
1	Zn 213.857†	1391.7	802.3	9.1345	µg/L	9.1345	ppb	11:01:49
2	Sc RADIAL	23578.9	23578.9	99.3	%			11:00:27
2	Al 396.153Radial†	-104.0	3.3	11.755	µg/L	11.755	ppb	11:00:47
2	Ca 317.933Radial†	14892.5	14913.6	9397.9	µg/L	9397.9	ppb	11:00:47
2	Fe 238.204 Radial†	1104.4	1079.1	3345.6	µg/L	3345.6	ppb	11:00:47
2	K 766.490 Radial†	35898.6	35428.9	48431	µg/L	48431	ppb	11:00:27
2	Mg 279.077 IEC†	1942.7	1953.1	12585	µg/L	12585	ppb	11:00:47
2	Na 589.592 Radial†	74349.8	74915.4	104170	µg/L	104170	ppb	11:00:27
2	Sr 421.552†	5358.5	5369.0	61.921	µg/L	61.921	ppb	11:00:27
2	Sc 361.383	1301496.3	1301496.3	100.60	%			11:01:51
2	Y 371.029	745909.6	745909.6	97.664	%			11:01:51
2	Ag 328.068†	780.6	100.7	0.3657	µg/L	0.3657	ppb	11:01:53
2	As 188.979†	-5.5	-1.8	-3.0408	µg/L	-3.0408	ppb	11:02:13
2	B 249.677†	52967.3	52372.9	586.24	µg/L	586.24	ppb	11:01:53
2	Ba 233.527†	8275.8	8314.0	114.64	µg/L	114.64	ppb	11:01:53
2	Be 313.107†	-9287.1	-1303.5	-0.5507	µg/L	-0.5507	ppb	11:01:53
2	Cd 226.502†	-101.3	4.1	-0.3679	µg/L	-0.3679	ppb	11:02:13
2	Co 228.616†	-7.5	94.0	2.7117	µg/L	2.7117	ppb	11:02:13
2	Cr 267.716†	205.8	91.1	1.6014	µg/L	1.6014	ppb	11:02:13
2	Cu 324.752†	4418.9	215.2	2.0041	µg/L	2.0041	ppb	11:01:53
2	Mn 257.610†	10258.7	10005.1	28.447	µg/L	28.447	ppb	11:01:53
2	Mo 202.031†	-24.0	-12.2	-0.7527	µg/L	-0.7527	ppb	11:02:13
2	Ni 231.604†	421.4	477.9	13.692	µg/L	13.692	ppb	11:02:13
2	P 214.914†	924.5	983.7	999.40	µg/L	999.40	ppb	11:02:13
2	Pb 220.353†	109.3	-5.6	-1.2968	µg/L	-1.2968	ppb	11:02:13

2	S 181.975 Axial†	286.7	256.9	806.86	µg/L	806.86	ppb	11:02:13
2	Sb 206.836†	-0.7	-5.2	-3.3328	µg/L	-3.3328	ppb	11:02:13
2	Se 196.026†	13.1	1.2	3.13	µg/L	3.13	ppb	11:02:13
2	SiO2†	44799.8	42594.0	7697.1	µg/L	7697.1	ppb	11:01:53
2	Si 251.611†	124967.2	123826.1	3566.6	µg/L	3566.6	ppb	11:01:53
2	Sn 189.927†	2.1	1.4	1.5609	µg/L	1.5609	ppb	11:02:13
2	Ti 334.940†	2422.8	859.5	1.9385	µg/L	1.9385	ppb	11:01:53
2	Tl 190.801†	-8.0	10.0	11.526	µg/L	11.526	ppb	11:02:13
2	U 367.007†	429.2	133.9	17.831	µg/L	17.831	ppb	11:01:53
2	V 292.402†	247.3	-56.9	0.1095	µg/L	0.1095	ppb	11:01:53
2	Zn 213.857†	1380.6	822.0	9.3880	µg/L	9.3880	ppb	11:02:13
3	Sc RADIAL	22823.1	22823.1	96.1	%			11:00:49
3	Al 396.153Radial†	-107.5	-3.8	-3.3628	µg/L	-3.3628	ppb	11:01:09
3	Ca 317.933Radial†	14204.3	14694.2	9259.6	µg/L	9259.6	ppb	11:01:09
3	Fe 238.204 Radial†	1055.5	1065.0	3301.8	µg/L	3301.8	ppb	11:01:09
3	K 766.490 Radial†	34860.0	35545.4	48591	µg/L	48591	ppb	11:00:49
3	Mg 279.077 IEC†	1864.9	1936.9	12481	µg/L	12481	ppb	11:01:09
3	Na 589.592 Radial†	70243.8	73123.1	101670	µg/L	101670	ppb	11:00:49
3	Sr 421.552†	5228.5	5412.3	62.423	µg/L	62.423	ppb	11:00:49
3	Sc 361.383	1313527.3	1313527.3	101.53	%			11:02:15
3	Y 371.029	752296.6	752296.6	98.500	%			11:02:15
3	Ag 328.068†	932.7	243.4	1.3230	µg/L	1.3230	ppb	11:02:17
3	As 188.979†	-1.2	2.5	5.0090	µg/L	5.0090	ppb	11:02:37
3	B 249.677†	52527.7	51457.8	575.53	µg/L	575.53	ppb	11:02:17
3	Ba 233.527†	8189.1	8153.2	112.42	µg/L	112.42	ppb	11:02:17
3	Be 313.107†	-9451.3	-1380.7	-0.5833	µg/L	-0.5833	ppb	11:02:17
3	Cd 226.502†	-105.9	0.5	-0.4167	µg/L	-0.4167	ppb	11:02:37
3	Co 228.616†	-23.8	78.0	2.2553	µg/L	2.2553	ppb	11:02:37
3	Cr 267.716†	203.5	87.0	1.5252	µg/L	1.5252	ppb	11:02:37
3	Cu 324.752†	4308.1	65.8	0.9893	µg/L	0.9893	ppb	11:02:17
3	Mn 257.610†	10215.8	9869.5	28.059	µg/L	28.059	ppb	11:02:17
3	Mo 202.031†	-21.0	-9.0	-0.3984	µg/L	-0.3984	ppb	11:02:37
3	Ni 231.604†	403.9	456.9	13.089	µg/L	13.089	ppb	11:02:37
3	P 214.914†	899.6	950.7	965.79	µg/L	965.79	ppb	11:02:37
3	Pb 220.353†	93.7	-22.0	-4.7146	µg/L	-4.7146	ppb	11:02:37
3	S 181.975 Axial†	289.7	257.2	807.98	µg/L	807.98	ppb	11:02:37
3	Sb 206.836†	-3.9	-8.4	-5.3112	µg/L	-5.3112	ppb	11:02:37
3	Se 196.026†	15.1	3.0	5.51	µg/L	5.51	ppb	11:02:37
3	SiO2†	44632.1	42021.0	7593.5	µg/L	7593.5	ppb	11:02:17
3	Si 251.611†	124006.8	121742.5	3506.6	µg/L	3506.6	ppb	11:02:17
3	Sn 189.927†	10.6	9.7	4.8546	µg/L	4.8546	ppb	11:02:37
3	Ti 334.940†	2253.3	670.5	1.5826	µg/L	1.5826	ppb	11:02:17
3	Tl 190.801†	-13.5	4.7	5.1515	µg/L	5.1515	ppb	11:02:37
3	U 367.007†	439.4	140.1	19.837	µg/L	19.837	ppb	11:02:17
3	V 292.402†	306.7	-0.7	0.5007	µg/L	0.5007	ppb	11:02:17
3	Zn 213.857†	1370.6	799.7	9.1238	µg/L	9.1238	ppb	11:02:37

Mean Data: 335304005|1339673|5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1315395.3	101.68	%	1.153				1.13%
Sc RADIAL	23322.5	98.2	%	1.82				1.85%
Y 371.029	753555.0	98.665	%	1.0928				1.11%
Ag 328.068†	152.2	0.7112	µg/L	0.53135	0.7112	ppb	0.53135	74.71%
Al 396.153Radial†	5.6	16.589	µg/L	22.7580	16.589	ppb	22.7580	137.18%
As 188.979†	1.5	3.0593	µg/L	5.39627	3.0593	ppb	5.39627	176.39%
B 249.677†	51841.3	579.94	µg/L	5.600	579.94	ppb	5.600	0.97%
Ba 233.527†	8220.4	113.35	µg/L	1.152	113.35	ppb	1.152	1.02%
Be 313.107†	-1262.5	-0.5334	µg/L	0.06045	-0.5334	ppb	0.06045	11.33%
Ca 317.933Radial†	14928.2	9407.1	µg/L	152.22	9407.1	ppb	152.22	1.62%
Cd 226.502†	5.4	-0.3490	µg/L	0.07881	-0.3490	ppb	0.07881	22.58%
Co 228.616†	85.5	2.4686	µg/L	0.22965	2.4686	ppb	0.22965	9.30%
Cr 267.716†	81.4	1.4270	µg/L	0.23916	1.4270	ppb	0.23916	16.76%
Cu 324.752†	147.0	1.5431	µg/L	0.51376	1.5431	ppb	0.51376	33.29%
Fe 238.204 Radial†	1079.8	3347.6	µg/L	46.87	3347.6	ppb	46.87	1.40%
K 766.490 Radial†	35452.0	48463	µg/L	115.7	48463	ppb	115.7	0.24%
Mg 279.077 IEC†	1959.4	12626	µg/L	169.5	12626	ppb	169.5	1.34%
Mn 257.610†	9901.5	28.148	µg/L	0.2664	28.148	ppb	0.2664	0.95%
Mo 202.031†	-9.3	-0.4239	µg/L	0.31690	-0.4239	ppb	0.31690	74.76%
Na 589.592 Radial†	74192.6	103160	µg/L	1314.1	103160	ppb	1314.1	1.27%

Ni 231.604†	467.5	13.394	µg/L	0.3013	13.394	ppb	0.3013	2.25%
P 214.914†	960.9	976.20	µg/L	20.131	976.20	ppb	20.131	2.06%
Pb 220.353†	-12.5	-2.7514	µg/L	1.76475	-2.7514	ppb	1.76475	64.14%
S 181.975 Axial†	255.2	801.64	µg/L	10.030	801.64	ppb	10.030	1.25%
Sb 206.836†	-6.5	-4.1220	µg/L	1.04811	-4.1220	ppb	1.04811	25.43%
Se 196.026†	1.6	3.71	µg/L	1.592	3.71	ppb	1.592	42.95%
SiO2†	42236.9	7632.6	µg/L	56.30	7632.6	ppb	56.30	0.74%
Si 251.611†	122438.8	3526.7	µg/L	34.60	3526.7	ppb	34.60	0.98%
Sn 189.927†	6.5	3.6190	µg/L	1.79428	3.6190	ppb	1.79428	49.58%
Sr 421.552†	5385.2	62.108	µg/L	0.2742	62.108	ppb	0.2742	0.44%
Ti 334.940†	772.0	1.7778	µg/L	0.18042	1.7778	ppb	0.18042	10.15%
Tl 190.801†	4.7	5.1405	µg/L	6.39049	5.1405	ppb	6.39049	124.32%
U 367.007†	129.8	16.663	µg/L	3.8920	16.663	ppb	3.8920	23.36%
V 292.402†	-16.5	0.3949	µg/L	0.24997	0.3949	ppb	0.24997	63.29%
Zn 213.857†	808.0	9.2154	µg/L	0.14954	9.2154	ppb	0.14954	1.62%

Sequence No.: 19 **Autosampler Location: 317**
Sample ID: 335304006|1339673|5 **Date Collected: 11/6/2013 11:02:46**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304006|1339673|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23362.0	23362.0	98.4	%			11:03:16
1	Al 396.153Radial†	-96.7	9.7	25.112	µg/L	25.112	ppb	11:03:36
1	Ca 317.933Radial†	14709.0	14866.3	9368.1	µg/L	9368.1	ppb	11:03:36
1	Fe 238.204 Radial†	975.2	958.1	2970.5	µg/L	2970.5	ppb	11:03:36
1	K 766.490 Radial†	35451.4	35310.0	48267	µg/L	48267	ppb	11:03:16
1	Mg 279.077 IEC†	1927.5	1955.8	12602	µg/L	12602	ppb	11:03:36
1	Na 589.592 Radial†	74585.0	75849.5	105460	µg/L	105460	ppb	11:03:16
1	Sr 421.552†	5118.9	5175.5	59.688	µg/L	59.688	ppb	11:03:16
1	Sc 361.383	1317682.5	1317682.5	101.85	%			11:04:37
1	Y 371.029	754484.5	754484.5	98.786	%			11:04:37
1	Ag 328.068†	820.4	130.3	0.5859	µg/L	0.5859	ppb	11:04:39
1	As 188.979†	-4.1	-0.4	-0.3722	µg/L	-0.3722	ppb	11:04:59
1	B 249.677†	54369.2	53102.6	596.34	µg/L	596.34	ppb	11:04:39
1	Ba 233.527†	8119.4	8059.3	111.13	µg/L	111.13	ppb	11:04:39
1	Be 313.107†	-9461.0	-1360.9	-0.5749	µg/L	-0.5749	ppb	11:04:39
1	Cd 226.502†	-100.0	6.6	-0.2853	µg/L	-0.2853	ppb	11:04:59
1	Co 228.616†	-38.4	63.8	1.8497	µg/L	1.8497	ppb	11:04:59
1	Cr 267.716†	211.8	94.5	1.6627	µg/L	1.6627	ppb	11:04:59
1	Cu 324.752†	4277.0	21.9	0.6363	µg/L	0.6363	ppb	11:04:39
1	Mn 257.610†	9144.5	8786.0	24.929	µg/L	24.929	ppb	11:04:39
1	Mo 202.031†	-29.1	-16.9	-1.2891	µg/L	-1.2891	ppb	11:04:59
1	Ni 231.604†	224.1	279.0	7.9882	µg/L	7.9882	ppb	11:04:59
1	P 214.914†	833.8	883.3	897.47	µg/L	897.47	ppb	11:04:59
1	Pb 220.353†	107.2	-8.9	-1.9759	µg/L	-1.9759	ppb	11:04:59
1	S 181.975 Axial†	289.6	256.2	804.78	µg/L	804.78	ppb	11:04:59
1	Sb 206.836†	-2.5	-7.0	-4.4070	µg/L	-4.4070	ppb	11:04:59
1	Se 196.026†	6.5	-5.4	-5.65	µg/L	-5.65	ppb	11:04:59
1	SiO2†	45311.1	42549.1	7689.0	µg/L	7689.0	ppb	11:04:39
1	Si 251.611†	126084.3	123397.0	3554.2	µg/L	3554.2	ppb	11:04:39
1	Sn 189.927†	13.0	12.0	5.7880	µg/L	5.7880	ppb	11:04:59
1	Ti 334.940†	2151.8	563.7	1.4015	µg/L	1.4015	ppb	11:04:39
1	Tl 190.801†	-16.1	2.2	2.1290	µg/L	2.1290	ppb	11:04:59
1	U 367.007†	360.2	60.9	-0.8899	µg/L	-0.8899	ppb	11:04:39
1	V 292.402†	294.9	-13.2	0.3405	µg/L	0.3405	ppb	11:04:39
1	Zn 213.857†	821.5	256.3	2.4779	µg/L	2.4779	ppb	11:04:59
2	Sc RADIAL	23388.0	23388.0	98.5	%			11:03:38
2	Al 396.153Radial†	-97.8	8.8	23.087	µg/L	23.087	ppb	11:03:58
2	Ca 317.933Radial†	14690.7	14831.2	9345.9	µg/L	9345.9	ppb	11:03:58
2	Fe 238.204 Radial†	964.5	946.1	2933.1	µg/L	2933.1	ppb	11:03:58
2	K 766.490 Radial†	35401.4	35219.2	48143	µg/L	48143	ppb	11:03:38
2	Mg 279.077 IEC†	1925.2	1951.3	12574	µg/L	12574	ppb	11:03:58
2	Na 589.592 Radial†	74157.8	75331.6	104740	µg/L	104740	ppb	11:03:38
2	Sr 421.552†	5111.1	5161.8	59.529	µg/L	59.529	ppb	11:03:38
2	Sc 361.383	1305469.3	1305469.3	100.91	%			11:05:01
2	Y 371.029	747385.1	747385.1	97.857	%			11:05:01
2	Ag 328.068†	781.3	99.1	0.3650	µg/L	0.3650	ppb	11:05:04
2	As 188.979†	-1.0	2.7	5.3200	µg/L	5.3200	ppb	11:05:24
2	B 249.677†	54277.9	53511.5	601.36	µg/L	601.36	ppb	11:05:04
2	Ba 233.527†	8064.2	8079.2	111.40	µg/L	111.40	ppb	11:05:04
2	Be 313.107†	-9398.2	-1385.5	-0.5853	µg/L	-0.5853	ppb	11:05:04
2	Cd 226.502†	-110.8	-5.0	-0.4531	µg/L	-0.4531	ppb	11:05:24
2	Co 228.616†	-37.2	64.6	1.8734	µg/L	1.8734	ppb	11:05:24
2	Cr 267.716†	213.0	97.7	1.7097	µg/L	1.7097	ppb	11:05:24
2	Cu 324.752†	4278.8	63.0	0.9157	µg/L	0.9157	ppb	11:05:04
2	Mn 257.610†	9117.4	8843.0	25.093	µg/L	25.093	ppb	11:05:04
2	Mo 202.031†	-28.7	-16.7	-1.2727	µg/L	-1.2727	ppb	11:05:24
2	Ni 231.604†	232.1	289.0	8.2755	µg/L	8.2755	ppb	11:05:24
2	P 214.914†	834.0	891.2	905.62	µg/L	905.62	ppb	11:05:24
2	Pb 220.353†	103.8	-11.4	-2.5024	µg/L	-2.5024	ppb	11:05:24

2	S 181.975 Axial†	283.7	253.0	794.72	µg/L	794.72	ppb	11:05:24
2	Sb 206.836†	0.7	-3.9	-2.4928	µg/L	-2.4928	ppb	11:05:24
2	Se 196.026†	18.1	6.1	9.34	µg/L	9.34	ppb	11:05:24
2	SiO2†	45369.6	43023.2	7774.7	µg/L	7774.7	ppb	11:05:04
2	Si 251.611†	125948.7	124420.8	3583.7	µg/L	3583.7	ppb	11:05:04
2	Sn 189.927†	3.5	2.8	2.1060	µg/L	2.1060	ppb	11:05:24
2	Ti 334.940†	2062.2	494.7	1.2656	µg/L	1.2656	ppb	11:05:04
2	Tl 190.801†	-11.7	6.4	7.2097	µg/L	7.2097	ppb	11:05:24
2	U 367.007†	409.8	113.4	14.164	µg/L	14.164	ppb	11:05:04
2	V 292.402†	287.3	-18.1	0.3101	µg/L	0.3101	ppb	11:05:04
2	Zn 213.857†	807.7	250.2	2.4056	µg/L	2.4056	ppb	11:05:24
3	Sc RADIAL	23324.0	23324.0	98.2	%			11:04:00
3	Al 396.153Radial†	-104.5	1.6	8.1605	µg/L	8.1605	ppb	11:04:20
3	Ca 317.933Radial†	14664.7	14845.6	9355.0	µg/L	9355.0	ppb	11:04:20
3	Fe 238.204 Radial†	959.7	943.9	2926.5	µg/L	2926.5	ppb	11:04:20
3	K 766.490 Radial†	35403.5	35319.9	48281	µg/L	48281	ppb	11:04:00
3	Mg 279.077 IEC†	1926.7	1958.2	12618	µg/L	12618	ppb	11:04:20
3	Na 589.592 Radial†	73485.7	74853.9	104080	µg/L	104080	ppb	11:04:00
3	Sr 421.552†	5143.9	5209.4	60.080	µg/L	60.080	ppb	11:04:00
3	Sc 361.383	1324544.0	1324544.0	102.38	%			11:05:26
3	Y 371.029	758103.1	758103.1	99.260	%			11:05:26
3	Ag 328.068†	918.8	222.2	1.1912	µg/L	1.1912	ppb	11:05:28
3	As 188.979†	-4.9	-1.1	-1.7877	µg/L	-1.7877	ppb	11:05:48
3	B 249.677†	53793.2	52263.4	586.59	µg/L	586.59	ppb	11:05:28
3	Ba 233.527†	7943.6	7846.4	108.19	µg/L	108.19	ppb	11:05:28
3	Be 313.107†	-9455.9	-1307.7	-0.5525	µg/L	-0.5525	ppb	11:05:28
3	Cd 226.502†	-100.4	6.7	-0.2776	µg/L	-0.2776	ppb	11:05:48
3	Co 228.616†	-26.2	75.9	2.1940	µg/L	2.1940	ppb	11:05:48
3	Cr 267.716†	196.6	78.6	1.3659	µg/L	1.3659	ppb	11:05:48
3	Cu 324.752†	4302.1	24.7	0.6556	µg/L	0.6556	ppb	11:05:28
3	Mn 257.610†	9138.8	8733.9	24.777	µg/L	24.777	ppb	11:05:28
3	Mo 202.031†	-32.1	-19.7	-1.5991	µg/L	-1.5991	ppb	11:05:48
3	Ni 231.604†	232.7	286.3	8.1985	µg/L	8.1985	ppb	11:05:48
3	P 214.914†	845.1	890.1	904.48	µg/L	904.48	ppb	11:05:48
3	Pb 220.353†	101.8	-14.8	-3.2098	µg/L	-3.2098	ppb	11:05:48
3	S 181.975 Axial†	288.2	253.4	796.02	µg/L	796.02	ppb	11:05:48
3	Sb 206.836†	-2.3	-6.8	-4.2824	µg/L	-4.2824	ppb	11:05:48
3	Se 196.026†	21.9	9.6	13.9	µg/L	13.9	ppb	11:05:48
3	SiO2†	44830.0	41848.6	7562.4	µg/L	7562.4	ppb	11:05:28
3	Si 251.611†	124716.4	121419.7	3497.3	µg/L	3497.3	ppb	11:05:28
3	Sn 189.927†	8.1	7.2	3.8821	µg/L	3.8821	ppb	11:05:48
3	Ti 334.940†	2021.8	425.8	1.1396	µg/L	1.1396	ppb	11:05:28
3	Tl 190.801†	-10.4	7.8	8.8945	µg/L	8.8945	ppb	11:05:48
3	U 367.007†	408.7	106.4	12.230	µg/L	12.230	ppb	11:05:28
3	V 292.402†	378.4	66.8	0.8961	µg/L	0.8961	ppb	11:05:28
3	Zn 213.857†	806.8	237.8	2.2524	µg/L	2.2524	ppb	11:05:48

Mean Data: 335304006|1339673|5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1315898.6	101.72	%	0.747				0.73%
Sc RADIAL	23358.0	98.4	%	0.14				0.14%
Y 371.029	753324.3	98.634	%	0.7139				0.72%
Ag 328.068†	150.5	0.7140	µg/L	0.42775	0.7140	ppb	0.42775	59.91%
Al 396.153Radial†	6.7	18.787	µg/L	9.2581	18.787	ppb	9.2581	49.28%
As 188.979†	0.4	1.0534	µg/L	3.76218	1.0534	ppb	3.76218	357.15%
B 249.677†	52959.2	594.76	µg/L	7.510	594.76	ppb	7.510	1.26%
Ba 233.527†	7995.0	110.24	µg/L	1.779	110.24	ppb	1.779	1.61%
Be 313.107†	-1351.3	-0.5709	µg/L	0.01679	-0.5709	ppb	0.01679	2.94%
Ca 317.933Radial†	14847.7	9356.3	µg/L	11.12	9356.3	ppb	11.12	0.12%
Cd 226.502†	2.8	-0.3387	µg/L	0.09914	-0.3387	ppb	0.09914	29.27%
Co 228.616†	68.1	1.9724	µg/L	0.19228	1.9724	ppb	0.19228	9.75%
Cr 267.716†	90.2	1.5795	µg/L	0.18642	1.5795	ppb	0.18642	11.80%
Cu 324.752†	36.5	0.7359	µg/L	0.15602	0.7359	ppb	0.15602	21.20%
Fe 238.204 Radial†	949.4	2943.3	µg/L	23.72	2943.3	ppb	23.72	0.81%
K 766.490 Radial†	35283.0	48230	µg/L	75.9	48230	ppb	75.9	0.16%
Mg 279.077 IEC†	1955.1	12598	µg/L	22.4	12598	ppb	22.4	0.18%
Mn 257.610†	8787.6	24.933	µg/L	0.1578	24.933	ppb	0.1578	0.63%
Mo 202.031†	-17.8	-1.3869	µg/L	0.18387	-1.3869	ppb	0.18387	13.26%
Na 589.592 Radial†	75345.0	104760	µg/L	692.3	104760	ppb	692.3	0.66%

Ni 231.604†	284.8	8.1540	µg/L	0.14871	8.1540	ppb	0.14871	1.82%
P 214.914†	888.2	902.52	µg/L	4.415	902.52	ppb	4.415	0.49%
Pb 220.353†	-11.7	-2.5627	µg/L	0.61914	-2.5627	ppb	0.61914	24.16%
S 181.975 Axial†	254.2	798.51	µg/L	5.470	798.51	ppb	5.470	0.68%
Sb 206.836†	-5.9	-3.7274	µg/L	1.07104	-3.7274	ppb	1.07104	28.73%
Se 196.026†	3.4	5.87	µg/L	10.233	5.87	ppb	10.233	174.45%
SiO2†	42473.6	7675.3	µg/L	106.78	7675.3	ppb	106.78	1.39%
Si 251.611†	123079.2	3545.1	µg/L	43.94	3545.1	ppb	43.94	1.24%
Sn 189.927†	7.3	3.9254	µg/L	1.84140	3.9254	ppb	1.84140	46.91%
Sr 421.552†	5182.2	59.766	µg/L	0.2832	59.766	ppb	0.2832	0.47%
Ti 334.940†	494.8	1.2689	µg/L	0.13097	1.2689	ppb	0.13097	10.32%
Tl 190.801†	5.5	6.0777	µg/L	3.52193	6.0777	ppb	3.52193	57.95%
U 367.007†	93.6	8.5014	µg/L	8.19034	8.5014	ppb	8.19034	96.34%
V 292.402†	11.8	0.5156	µg/L	0.32991	0.5156	ppb	0.32991	63.99%
Zn 213.857†	248.1	2.3786	µg/L	0.11514	2.3786	ppb	0.11514	4.84%

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Sequence No.: 20 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 11:05:56**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23536.5	23536.5	99.1	%			11:06:28
1	Al 396.153Radial†	2127.5	2254.1	4727.6	µg/L	4727.6	ppb	11:06:48
1	Ca 317.933Radial†	8170.4	8159.6	5142.2	µg/L	5142.2	ppb	11:06:48
1	Fe 238.204 Radial†	1707.3	1689.3	5221.9	µg/L	5221.9	ppb	11:06:48
1	K 766.490 Radial†	4269.6	3587.7	4918.5	µg/L	4918.5	ppb	11:06:28
1	Mg 279.077 IEC†	816.6	820.6	5288.6	µg/L	5288.6	ppb	11:06:48
1	Na 589.592 Radial†	6644.0	6750.9	9386.8	µg/L	9386.8	ppb	11:06:28
1	Sr 421.552†	42122.0	42464.4	490.29	µg/L	490.29	ppb	11:06:28
1	Sc 361.383	1345768.3	1345768.3	104.02	%			11:07:50
1	Y 371.029	775595.4	775595.4	101.55	%			11:07:50
1	Ag 328.068†	79145.5	75408.4	505.10	µg/L	505.10	ppb	11:07:52
1	As 188.979†	294.5	286.8	545.92	µg/L	545.92	ppb	11:08:12
1	B 249.677†	43887.6	41912.4	475.09	µg/L	475.09	ppb	11:07:52
1	Ba 233.527†	37097.2	35749.7	494.38	µg/L	494.38	ppb	11:07:52
1	Be 313.107†	1207718.3	1168923.5	493.85	µg/L	493.85	ppb	11:07:50
1	Cd 226.502†	34280.9	33059.5	493.09	µg/L	493.09	ppb	11:07:52
1	Co 228.616†	18074.8	17477.0	498.88	µg/L	498.88	ppb	11:07:52
1	Cr 267.716†	28422.6	27209.5	489.54	µg/L	489.54	ppb	11:07:52
1	Cu 324.752†	81476.7	74147.3	501.91	µg/L	501.91	ppb	11:07:52
1	Mn 257.610†	181058.1	173861.4	499.91	µg/L	499.91	ppb	11:07:52
1	Mo 202.031†	4547.2	4383.0	489.69	µg/L	489.69	ppb	11:08:12
1	Ni 231.604†	17935.5	17300.6	496.31	µg/L	496.31	ppb	11:07:52
1	P 214.914†	2135.6	2117.6	2146.1	µg/L	2146.1	ppb	11:08:12
1	Pb 220.353†	2555.6	2342.5	489.08	µg/L	489.08	ppb	11:08:12
1	S 181.975 Axial†	342.0	300.7	942.61	µg/L	942.61	ppb	11:08:12
1	Sb 206.836†	734.3	701.4	436.69	µg/L	436.69	ppb	11:08:12
1	Se 196.026†	392.2	365.2	477	µg/L	477	ppb	11:08:12
1	SiO2†	32448.4	29255.5	5296.3	µg/L	5296.3	ppb	11:07:52
1	Si 251.611†	89881.1	86011.0	2471.2	µg/L	2471.2	ppb	11:07:52
1	Sn 189.927†	1154.4	1109.0	443.09	µg/L	443.09	ppb	11:08:12
1	Ti 334.940†	282126.7	269663.2	497.55	µg/L	497.55	ppb	11:07:52
1	Tl 190.801†	454.6	455.0	542.57	µg/L	542.57	ppb	11:08:12
1	U 367.007†	2330.9	1948.0	520.30	µg/L	520.30	ppb	11:07:52
1	V 292.402†	72646.7	69533.4	492.99	µg/L	492.99	ppb	11:07:52
1	Zn 213.857†	42408.5	40217.6	493.06	µg/L	493.06	ppb	11:07:52
2	Sc RADIAL	23908.8	23908.8	101	%			11:06:50
2	Al 396.153Radial†	2117.2	2210.5	4636.0	µg/L	4636.0	ppb	11:07:10
2	Ca 317.933Radial†	8172.2	8033.0	5062.5	µg/L	5062.5	ppb	11:07:10
2	Fe 238.204 Radial†	1703.1	1658.3	5125.9	µg/L	5125.9	ppb	11:07:10
2	K 766.490 Radial†	4316.5	3567.1	4890.3	µg/L	4890.3	ppb	11:06:50
2	Mg 279.077 IEC†	811.2	802.5	5171.5	µg/L	5171.5	ppb	11:07:10
2	Na 589.592 Radial†	6689.5	6691.7	9304.5	µg/L	9304.5	ppb	11:06:50
2	Sr 421.552†	43026.8	42701.3	493.03	µg/L	493.03	ppb	11:06:50
2	Sc 361.383	1354139.9	1354139.9	104.67	%			11:08:14
2	Y 371.029	779555.2	779555.2	102.07	%			11:08:14
2	Ag 328.068†	78552.6	74371.5	498.17	µg/L	498.17	ppb	11:08:17
2	As 188.979†	308.1	298.0	567.03	µg/L	567.03	ppb	11:08:37
2	B 249.677†	43576.0	41354.0	468.85	µg/L	468.85	ppb	11:08:17
2	Ba 233.527†	36796.7	35242.2	487.37	µg/L	487.37	ppb	11:08:17
2	Be 313.107†	1217945.8	1171517.0	494.95	µg/L	494.95	ppb	11:08:14
2	Cd 226.502†	34124.8	32706.6	487.83	µg/L	487.83	ppb	11:08:17
2	Co 228.616†	18003.3	17301.3	493.88	µg/L	493.88	ppb	11:08:17
2	Cr 267.716†	28239.9	26866.2	483.37	µg/L	483.37	ppb	11:08:17
2	Cu 324.752†	80861.6	73075.5	494.65	µg/L	494.65	ppb	11:08:17
2	Mn 257.610†	180005.4	171779.6	493.92	µg/L	493.92	ppb	11:08:17
2	Mo 202.031†	4654.6	4458.5	498.12	µg/L	498.12	ppb	11:08:37
2	Ni 231.604†	17752.7	17019.4	488.24	µg/L	488.24	ppb	11:08:17
2	P 214.914†	2180.1	2147.5	2176.6	µg/L	2176.6	ppb	11:08:37
2	Pb 220.353†	2618.2	2387.1	498.40	µg/L	498.40	ppb	11:08:37

2	S 181.975 Axial†	351.7	307.9	965.27 µg/L	965.27 ppb	11:08:37
2	Sb 206.836†	749.5	711.5	443.09 µg/L	443.09 ppb	11:08:37
2	Se 196.026†	413.8	383.5	501 µg/L	501 ppb	11:08:37
2	SiO2†	32258.2	28880.9	5228.5 µg/L	5228.5 ppb	11:08:17
2	Si 251.611†	89215.9	84841.3	2437.3 µg/L	2437.3 ppb	11:08:17
2	Sn 189.927†	1160.8	1108.2	442.77 µg/L	442.77 ppb	11:08:37
2	Ti 334.940†	280251.8	266195.3	491.16 µg/L	491.16 ppb	11:08:17
2	Tl 190.801†	460.8	458.2	546.39 µg/L	546.39 ppb	11:08:37
2	U 367.007†	2310.0	1914.1	511.26 µg/L	511.26 ppb	11:08:17
2	V 292.402†	72378.8	68845.8	488.26 µg/L	488.26 ppb	11:08:17
2	Zn 213.857†	42169.2	39737.0	487.18 µg/L	487.18 ppb	11:08:17
3	Sc RADIAL	23800.9	23800.9	100 %		11:07:12
3	Al 396.153Radial†	2121.7	2224.5	4665.3 µg/L	4665.3 ppb	11:07:32
3	Ca 317.933Radial†	8145.2	8042.9	5068.7 µg/L	5068.7 ppb	11:07:32
3	Fe 238.204 Radial†	1693.1	1656.0	5118.6 µg/L	5118.6 ppb	11:07:32
3	K 766.490 Radial†	4349.3	3619.4	4961.8 µg/L	4961.8 ppb	11:07:12
3	Mg 279.077 IEC†	812.1	807.0	5200.9 µg/L	5200.9 ppb	11:07:32
3	Na 589.592 Radial†	6719.0	6751.2	9387.2 µg/L	9387.2 ppb	11:07:12
3	Sr 421.552†	42705.7	42574.6	491.56 µg/L	491.56 ppb	11:07:12
3	Sc 361.383	1344943.1	1344943.1	103.96 %		11:08:39
3	Y 371.029	774600.1	774600.1	101.42 %		11:08:39
3	Ag 328.068†	79079.3	75391.4	505.00 µg/L	505.00 ppb	11:08:41
3	As 188.979†	308.9	300.8	572.32 µg/L	572.32 ppb	11:09:01
3	B 249.677†	43884.8	41935.7	475.73 µg/L	475.73 ppb	11:08:41
3	Ba 233.527†	37089.7	35764.4	494.59 µg/L	494.59 ppb	11:08:41
3	Be 313.107†	1211725.8	1173490.6	495.78 µg/L	495.78 ppb	11:08:39
3	Cd 226.502†	34214.9	33016.2	492.46 µg/L	492.46 ppb	11:08:41
3	Co 228.616†	18018.7	17433.7	497.65 µg/L	497.65 ppb	11:08:41
3	Cr 267.716†	28350.0	27156.5	488.59 µg/L	488.59 ppb	11:08:41
3	Cu 324.752†	81253.1	73980.3	500.76 µg/L	500.76 ppb	11:08:41
3	Mn 257.610†	180971.8	173885.1	499.98 µg/L	499.98 ppb	11:08:41
3	Mo 202.031†	4638.4	4473.4	499.78 µg/L	499.78 ppb	11:09:01
3	Ni 231.604†	17899.3	17276.4	495.62 µg/L	495.62 ppb	11:08:41
3	P 214.914†	2176.0	2157.8	2187.1 µg/L	2187.1 ppb	11:09:01
3	Pb 220.353†	2614.3	2400.5	501.19 µg/L	501.19 ppb	11:09:01
3	S 181.975 Axial†	347.6	306.2	960.02 µg/L	960.02 ppb	11:09:01
3	Sb 206.836†	752.1	718.9	447.67 µg/L	447.67 ppb	11:09:01
3	Se 196.026†	409.1	381.7	498 µg/L	498 ppb	11:09:01
3	SiO2†	32478.6	29303.7	5305.0 µg/L	5305.0 ppb	11:08:41
3	Si 251.611†	89651.0	85842.6	2466.2 µg/L	2466.2 ppb	11:08:41
3	Sn 189.927†	1162.9	1117.8	446.59 µg/L	446.59 ppb	11:09:01
3	Ti 334.940†	282060.5	269765.9	497.74 µg/L	497.74 ppb	11:08:41
3	Tl 190.801†	457.2	457.7	545.83 µg/L	545.83 ppb	11:09:01
3	U 367.007†	2331.4	1949.8	521.37 µg/L	521.37 ppb	11:08:41
3	V 292.402†	72724.5	69651.1	493.91 µg/L	493.91 ppb	11:08:41
3	Zn 213.857†	42403.3	40237.7	493.32 µg/L	493.32 ppb	11:08:41

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1348283.8	104.22	%	0.393				0.38%
Sc RADIAL	23748.7	100	%	0.8				0.81%
Y 371.029	776583.5	101.68	%	0.343				0.34%
Ag 328.068†	75057.1	502.76	µg/L	3.970	502.76	ppb	3.970	0.79%
QC value within limits for Ag 328.068 Recovery = 100.55%								
Al 396.153Radial†	2229.7	4676.3	µg/L	46.77	4676.3	ppb	46.77	1.00%
QC value within limits for Al 396.153Radial Recovery = 93.53%								
As 188.979†	295.2	561.76	µg/L	13.969	561.76	ppb	13.969	2.49%
QC value greater than the upper limit for As 188.979 Recovery = 112.35%								
B 249.677†	41734.0	473.22	µg/L	3.802	473.22	ppb	3.802	0.80%
QC value within limits for B 249.677 Recovery = 94.64%								
Ba 233.527†	35585.4	492.11	µg/L	4.109	492.11	ppb	4.109	0.84%
QC value within limits for Ba 233.527 Recovery = 98.42%								
Be 313.107†	1171310.4	494.86	µg/L	0.968	494.86	ppb	0.968	0.20%
QC value within limits for Be 313.107 Recovery = 98.97%								
Ca 317.933Radial†	8078.5	5091.1	µg/L	44.37	5091.1	ppb	44.37	0.87%
QC value within limits for Ca 317.933Radial Recovery = 101.82%								
Cd 226.502†	32927.4	491.13	µg/L	2.871	491.13	ppb	2.871	0.58%
QC value within limits for Cd 226.502 Recovery = 98.23%								
Co 228.616†	17404.0	496.80	µg/L	2.606	496.80	ppb	2.606	0.52%

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   QC value within limits for Co 228.616  Recovery = 99.36%
Cr 267.716†            27077.4      487.17 µg/L         3.324      487.17 ppb          3.324   0.68%
   QC value within limits for Cr 267.716  Recovery = 97.43%
Cu 324.752†            73734.4      499.11 µg/L         3.905      499.11 ppb          3.905   0.78%
   QC value within limits for Cu 324.752  Recovery = 99.82%
Fe 238.204 Radial†      1667.8      5155.5 µg/L         57.64      5155.5 ppb          57.64   1.12%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.11%
K 766.490 Radial†       3591.4      4923.6 µg/L         36.03      4923.6 ppb          36.03   0.73%
   QC value within limits for K 766.490 Radial  Recovery = 98.47%
Mg 279.077 IEC†          810.0      5220.3 µg/L         60.93      5220.3 ppb          60.93   1.17%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.41%
Mn 257.610†           173175.4      497.94 µg/L         3.475      497.94 ppb          3.475   0.70%
   QC value within limits for Mn 257.610  Recovery = 99.59%
Mo 202.031†             4438.3      495.86 µg/L         5.409      495.86 ppb          5.409   1.09%
   QC value within limits for Mo 202.031  Recovery = 99.17%
Na 589.592 Radial†      6731.3      9359.5 µg/L         47.64      9359.5 ppb          47.64   0.51%
   QC value within limits for Na 589.592 Radial  Recovery = 93.59%
Ni 231.604†            17198.8      493.39 µg/L         4.471      493.39 ppb          4.471   0.91%
   QC value within limits for Ni 231.604  Recovery = 98.68%
P 214.914†              2141.0      2169.9 µg/L         21.33      2169.9 ppb          21.33   0.98%
   QC value less than the lower limit for P 214.914  Recovery = 86.80%
Pb 220.353†             2376.7      496.22 µg/L         6.342      496.22 ppb          6.342   1.28%
   QC value within limits for Pb 220.353  Recovery = 99.24%
S 181.975 Axial†         304.9      955.97 µg/L        11.861      955.97 ppb         11.861   1.24%
   QC value within limits for S 181.975 Axial  Recovery = 95.60%
Sb 206.836†              710.6      442.49 µg/L         5.513      442.49 ppb          5.513   1.25%
   QC value less than the lower limit for Sb 206.836  Recovery = 88.50%
Se 196.026†              376.8         492 µg/L          13.2         492 ppb           13.2   2.67%
   QC value within limits for Se 196.026  Recovery = 98.42%
SiO2†                  29146.7      5276.6 µg/L         41.89      5276.6 ppb          41.89   0.79%
   QC value within limits for SiO2  Recovery = 98.67%
Si 251.611†            85565.0      2458.2 µg/L         18.25      2458.2 ppb          18.25   0.74%
   QC value within limits for Si 251.611  Recovery = 98.33%
Sn 189.927†             1111.7      444.15 µg/L         2.121      444.15 ppb          2.121   0.48%
   QC value less than the lower limit for Sn 189.927  Recovery = 88.83%
Sr 421.552†            42580.1      491.63 µg/L         1.369      491.63 ppb          1.369   0.28%
   QC value within limits for Sr 421.552  Recovery = 98.33%
Ti 334.940†           268541.5      495.48 µg/L         3.749      495.48 ppb          3.749   0.76%
   QC value within limits for Ti 334.940  Recovery = 99.10%
Tl 190.801†              457.0      544.93 µg/L         2.062      544.93 ppb          2.062   0.38%
   QC value within limits for Tl 190.801  Recovery = 108.99%
U 367.007†              1937.3      517.64 µg/L         5.553      517.64 ppb          5.553   1.07%
   QC value within limits for U 367.007  Recovery = 103.53%
V 292.402†             69343.4      491.72 µg/L         3.031      491.72 ppb          3.031   0.62%
   QC value within limits for V 292.402  Recovery = 98.34%
Zn 213.857†            40064.1      491.19 µg/L         3.471      491.19 ppb          3.471   0.71%
   QC value within limits for Zn 213.857  Recovery = 98.24%
QC Failed.  Continue with analysis.
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Sequence No.: 21 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 11:09:09**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23388.2	23388.2	98.5	%			11:09:56
1	Al 396.153Radial†	-101.5	4.9	10.346	µg/L	10.346	ppb	11:09:56
1	Ca 317.933Radial†	84.3	3.1	1.9474	µg/L	1.9474	ppb	11:10:16
1	Fe 238.204 Radial†	30.5	-2.0	-6.2727	µg/L	-6.2727	ppb	11:10:16
1	K 766.490 Radial†	805.6	98.5	134.68	µg/L	134.68	ppb	11:09:56
1	Mg 279.077 IEC†	7.0	3.9	25.443	µg/L	25.443	ppb	11:10:16
1	Na 589.592 Radial†	26.4	75.5	104.95	µg/L	104.95	ppb	11:09:56
1	Sr 421.552†	40.8	14.5	0.1679	µg/L	0.1679	ppb	11:09:56
1	Sc 361.383	1232130.2	1232130.2	95.240	%			11:11:54
1	Y 371.029	723486.6	723486.6	94.728	%			11:11:54
1	Ag 328.068†	842.5	209.4	1.3829	µg/L	1.3829	ppb	11:11:56
1	As 188.979†	-6.2	-2.8	-5.2924	µg/L	-5.2924	ppb	11:12:16
1	B 249.677†	555.7	306.2	3.5888	µg/L	3.5888	ppb	11:11:56
1	Ba 233.527†	-72.3	11.8	0.1616	µg/L	0.1616	ppb	11:12:16
1	Be 313.107†	-9104.4	-1631.4	-0.6892	µg/L	-0.6892	ppb	11:11:56
1	Cd 226.502†	-103.5	-3.9	-0.0571	µg/L	-0.0571	ppb	11:12:16
1	Co 228.616†	-66.5	31.7	0.9053	µg/L	0.9053	ppb	11:12:16
1	Cr 267.716†	108.5	0.5	-0.0038	µg/L	-0.0038	ppb	11:12:16
1	Cu 324.752†	4225.1	259.0	1.7572	µg/L	1.7572	ppb	11:11:56
1	Mn 257.610†	239.7	59.5	0.1699	µg/L	0.1699	ppb	11:12:16
1	Mo 202.031†	1.6	13.4	1.4970	µg/L	1.4970	ppb	11:12:16
1	Ni 231.604†	-63.6	-7.8	-0.2232	µg/L	-0.2232	ppb	11:12:16
1	P 214.914†	-88.5	-28.2	-28.822	µg/L	-28.822	ppb	11:12:16
1	Pb 220.353†	97.9	-11.4	-2.3963	µg/L	-2.3963	ppb	11:12:16
1	S 181.975 Axial†	38.8	12.6	39.697	µg/L	39.697	ppb	11:12:16
1	Sb 206.836†	2.6	-1.8	-1.1257	µg/L	-1.1257	ppb	11:12:16
1	Se 196.026†	9.8	-1.6	-2.03	µg/L	-2.03	ppb	11:12:16
1	SiO2†	2152.5	322.5	58.283	µg/L	58.283	ppb	11:11:56
1	Si 251.611†	924.0	577.2	16.603	µg/L	16.603	ppb	11:12:16
1	Sn 189.927†	-0.5	-1.3	-0.5031	µg/L	-0.5031	ppb	11:12:16
1	Ti 334.940†	1647.3	180.8	0.3238	µg/L	0.3238	ppb	11:11:56
1	Tl 190.801†	-18.7	-1.7	-2.0240	µg/L	-2.0240	ppb	11:12:16
1	U 367.007†	343.1	67.5	19.113	µg/L	19.113	ppb	11:11:56
1	V 292.402†	257.6	-32.3	-0.1973	µg/L	-0.1973	ppb	11:11:56
1	Zn 213.857†	552.7	30.0	0.3713	µg/L	0.3713	ppb	11:12:16
2	Sc RADIAL	23252.5	23252.5	97.9	%			11:10:36
2	Al 396.153Radial†	-112.8	-7.2	-15.136	µg/L	-15.136	ppb	11:10:36
2	Ca 317.933Radial†	80.7	0.0	0.0052	µg/L	0.0052	ppb	11:10:56
2	Fe 238.204 Radial†	25.1	-7.4	-22.836	µg/L	-22.836	ppb	11:10:56
2	K 766.490 Radial†	797.2	94.7	129.56	µg/L	129.56	ppb	11:10:36
2	Mg 279.077 IEC†	3.8	0.8	5.2182	µg/L	5.2182	ppb	11:10:56
2	Na 589.592 Radial†	6.8	55.6	77.253	µg/L	77.253	ppb	11:10:36
2	Sr 421.552†	51.9	26.2	0.3022	µg/L	0.3022	ppb	11:10:36
2	Sc 361.383	1317926.1	1317926.1	101.87	%			11:12:18
2	Y 371.029	773734.6	773734.6	101.31	%			11:12:18
2	Ag 328.068†	779.0	89.5	0.5864	µg/L	0.5864	ppb	11:12:20
2	As 188.979†	-2.6	1.1	2.1015	µg/L	2.1015	ppb	11:12:40
2	B 249.677†	515.6	228.8	2.7385	µg/L	2.7385	ppb	11:12:20
2	Ba 233.527†	-48.1	40.5	0.5587	µg/L	0.5587	ppb	11:12:40
2	Be 313.107†	-9382.1	-1281.6	-0.5415	µg/L	-0.5415	ppb	11:12:20
2	Cd 226.502†	-113.3	-6.4	-0.0931	µg/L	-0.0931	ppb	11:12:40
2	Co 228.616†	-80.3	22.6	0.6475	µg/L	0.6475	ppb	11:12:40
2	Cr 267.716†	119.9	4.2	0.0662	µg/L	0.0662	ppb	11:12:40
2	Cu 324.752†	4430.2	171.5	1.1612	µg/L	1.1612	ppb	11:12:20
2	Mn 257.610†	249.4	52.6	0.1504	µg/L	0.1504	ppb	11:12:40
2	Mo 202.031†	-5.5	6.3	0.7068	µg/L	0.7068	ppb	11:12:40
2	Ni 231.604†	-77.1	-16.7	-0.4795	µg/L	-0.4795	ppb	11:12:40
2	P 214.914†	-79.8	-13.6	-13.884	µg/L	-13.884	ppb	11:12:40
2	Pb 220.353†	102.0	-14.1	-2.9534	µg/L	-2.9534	ppb	11:12:40

2	S 181.975 Axial†	38.0	9.3	29.113	µg/L	29.113	ppb	11:12:40
2	Sb 206.836†	-4.4	-8.8	-5.4991	µg/L	-5.4991	ppb	11:12:40
2	Se 196.026†	18.1	5.9	7.69	µg/L	7.69	ppb	11:12:40
2	SiO2†	2238.1	259.4	46.878	µg/L	46.878	ppb	11:12:20
2	Si 251.611†	929.3	519.3	14.944	µg/L	14.944	ppb	11:12:40
2	Sn 189.927†	2.1	1.4	0.5402	µg/L	0.5402	ppb	11:12:40
2	Ti 334.940†	1509.0	-67.7	-0.1319	µg/L	-0.1319	ppb	11:12:20
2	Tl 190.801†	-18.5	-0.1	-0.1678	µg/L	-0.1678	ppb	11:12:40
2	U 367.007†	347.2	48.1	13.720	µg/L	13.720	ppb	11:12:20
2	V 292.402†	308.4	0.0	0.0134	µg/L	0.0134	ppb	11:12:20
2	Zn 213.857†	571.3	10.6	0.1353	µg/L	0.1353	ppb	11:12:40
3	Sc RADIAL	23069.0	23069.0	97.2	%			11:11:17
3	Al 396.153Radial†	-114.2	-9.6	-20.123	µg/L	-20.123	ppb	11:11:17
3	Ca 317.933Radial†	85.9	6.0	3.7496	µg/L	3.7496	ppb	11:11:37
3	Fe 238.204 Radial†	32.9	0.9	2.7314	µg/L	2.7314	ppb	11:11:37
3	K 766.490 Radial†	806.1	110.3	150.88	µg/L	150.88	ppb	11:11:17
3	Mg 279.077 IEC†	10.0	7.2	46.097	µg/L	46.097	ppb	11:11:37
3	Na 589.592 Radial†	30.7	80.2	111.57	µg/L	111.57	ppb	11:11:17
3	Sr 421.552†	39.9	14.2	0.1638	µg/L	0.1638	ppb	11:11:17
3	Sc 361.383	1338791.2	1338791.2	103.49	%			11:12:42
3	Y 371.029	785432.3	785432.3	102.84	%			11:12:42
3	Ag 328.068†	895.9	190.5	1.2540	µg/L	1.2540	ppb	11:12:44
3	As 188.979†	0.3	3.9	7.3826	µg/L	7.3826	ppb	11:13:04
3	B 249.677†	517.5	222.8	2.5629	µg/L	2.5629	ppb	11:12:44
3	Ba 233.527†	-88.0	2.6	0.0370	µg/L	0.0370	ppb	11:13:04
3	Be 313.107†	-9409.5	-1164.6	-0.4920	µg/L	-0.4920	ppb	11:12:44
3	Cd 226.502†	-132.9	-23.7	-0.3540	µg/L	-0.3540	ppb	11:13:04
3	Co 228.616†	-78.0	26.1	0.7471	µg/L	0.7471	ppb	11:13:04
3	Cr 267.716†	111.1	-6.0	-0.1246	µg/L	-0.1246	ppb	11:13:04
3	Cu 324.752†	4438.2	111.5	0.7641	µg/L	0.7641	ppb	11:12:44
3	Mn 257.610†	224.1	24.4	0.0688	µg/L	0.0688	ppb	11:13:04
3	Mo 202.031†	9.9	21.3	2.3801	µg/L	2.3801	ppb	11:13:04
3	Ni 231.604†	-87.2	-25.3	-0.7256	µg/L	-0.7256	ppb	11:13:04
3	P 214.914†	-76.2	-8.9	-9.1632	µg/L	-9.1632	ppb	11:13:04
3	Pb 220.353†	100.1	-17.5	-3.6667	µg/L	-3.6667	ppb	11:13:04
3	S 181.975 Axial†	28.4	-0.6	-1.9437	µg/L	-1.9437	ppb	11:13:04
3	Sb 206.836†	-4.4	-8.8	-5.4824	µg/L	-5.4824	ppb	11:13:04
3	Se 196.026†	23.7	11.1	14.4	µg/L	14.4	ppb	11:13:04
3	SiO2†	2284.0	269.5	48.705	µg/L	48.705	ppb	11:12:44
3	Si 251.611†	819.6	399.1	11.463	µg/L	11.463	ppb	11:13:04
3	Sn 189.927†	-0.6	-1.3	-0.5185	µg/L	-0.5185	ppb	11:13:04
3	Ti 334.940†	1734.7	127.4	0.2230	µg/L	0.2230	ppb	11:12:44
3	Tl 190.801†	-15.9	2.7	3.1912	µg/L	3.1912	ppb	11:13:04
3	U 367.007†	389.7	83.9	23.698	µg/L	23.698	ppb	11:12:44
3	V 292.402†	346.2	31.8	0.2646	µg/L	0.2646	ppb	11:12:44
3	Zn 213.857†	564.2	-5.0	-0.0596	µg/L	-0.0596	ppb	11:13:04

Mean Data: CCB

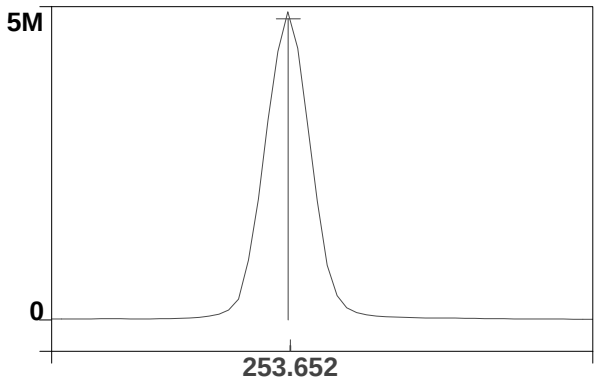
Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1296282.5	100.20	%	4.370				4.36%
Sc RADIAL	23236.6	97.9	%	0.67				0.69%
Y 371.029	760884.5	99.624	%	4.3092				4.33%
Ag 328.068†	163.1	1.0744	µg/L	0.42758	1.0744	ppb	0.42758	39.80%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-3.9	-8.3044	µg/L	16.34334	-8.3044	ppb	16.34334	196.80%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.7	1.3972	µg/L	6.36676	1.3972	ppb	6.36676	455.67%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	252.6	2.9634	µg/L	0.54865	2.9634	ppb	0.54865	18.51%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	18.3	0.2524	µg/L	0.27245	0.2524	ppb	0.27245	107.93%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1359.2	-0.5742	µg/L	0.10261	-0.5742	ppb	0.10261	17.87%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.0	1.9007	µg/L	1.87264	1.9007	ppb	1.87264	98.52%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-11.3	-0.1680	µg/L	0.16203	-0.1680	ppb	0.16203	96.43%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	26.8	0.7666	µg/L	0.13004	0.7666	ppb	0.13004	16.96%

```
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -0.4     -0.0207 µg/L       0.09653     -0.0207 ppb        0.09653 465.37%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               180.6      1.2275 µg/L       0.49984      1.2275 ppb        0.49984  40.72%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -2.8     -8.7924 µg/L      12.96860     -8.7924 ppb       12.96860 147.50%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         101.2      138.38 µg/L        11.126      138.38 ppb         11.126   8.04%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            4.0      25.586 µg/L       20.4398      25.586 ppb        20.4398  79.89%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               45.5      0.1297 µg/L       0.05366      0.1297 ppb        0.05366  41.38%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               13.7      1.5280 µg/L       0.83710      1.5280 ppb        0.83710  54.79%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        70.4      97.927 µg/L       18.2081      97.927 ppb        18.2081  18.59%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -16.6     -0.4761 µg/L       0.25121     -0.4761 ppb        0.25121  52.76%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               -16.9     -17.290 µg/L       10.2625     -17.290 ppb        10.2625  59.36%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -14.4     -3.0054 µg/L       0.63680     -3.0054 ppb        0.63680  21.19%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           7.1      22.289 µg/L       21.6430      22.289 ppb        21.6430  97.10%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -6.5     -4.0357 µg/L       2.52015     -4.0357 ppb        2.52015  62.45%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                5.1        6.70 µg/L         8.280        6.70 ppb          8.280 123.62%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     283.8      51.289 µg/L        6.1256      51.289 ppb         6.1256  11.94%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               498.5      14.337 µg/L        2.6236      14.337 ppb         2.6236  18.30%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -0.4     -0.1605 µg/L       0.60682     -0.1605 ppb        0.60682 378.11%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               18.3      0.2113 µg/L       0.07875      0.2113 ppb        0.07875  37.26%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               80.2      0.1383 µg/L       0.23939      0.1383 ppb        0.23939 173.13%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                0.3      0.3331 µg/L       2.64346      0.3331 ppb        2.64346 793.55%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                66.5      18.844 µg/L        4.9946      18.844 ppb         4.9946  26.51%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -0.2      0.0269 µg/L       0.23124      0.0269 ppb        0.23124 860.02%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               11.9      0.1490 µg/L       0.21579      0.1490 ppb        0.21579 144.83%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Method: Hg_ReAlign
Result: 110613

Sample ID: Hg_ReAlign

Hg 253.652 **Rep: 1**



Intensity: 4419322.1 cps
Conc:

1

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Reprocessing Begun
Logged In Analyst: optima4 **Technique: ICP Continuous**

Results Data Set (original): 110613
Results Library (original): C:\pe\optima4\Results\Results.mdb
Results Data Set (reprocessed): 110613A
Results Library (reprocessed): C:\pe\optima4\Results\Results.mdb

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Method Loaded
Method Name: Gen Eng fast_new SiU **Method Last Saved: 11/6/2013 14:23:52**
IEC File: 101613.iec **MSF File:**
Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
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
SiO2	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 367.007	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: S0 **Date Collected: 11/6/2013 13:05:56**
Analyst: **Data Type: Reprocessed on 11/6/2013 14:25:39**
Logged In Analyst (Original) : optima4
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 361.383	1265644.5	1265644.5	100.46	%	13:08:47
1	Sc RADIAL	22182.0	22182.0	101	%	13:06:49
1	Y 371.029	748360.7	748360.7	100.43	%	13:08:47
1	Ag 328.068†	788.4	784.8	[0.00]	µg/L	13:08:49
1	Al 396.153Radial†	-82.8	-82.2	[0.00]	µg/L	13:06:49
1	As 188.979†	-3.8	-3.7	[0.00]	µg/L	13:09:09

1	B 249.677†	265.5	264.3	[0.00]	µg/L	13:09:09
1	Ba 233.527†	-79.9	-79.6	[0.00]	µg/L	13:09:09
1	Be 313.107†	-6747.1	-6716.3	[0.00]	µg/L	13:08:49
1	Ca 317.933Radial†	90.6	90.0	[0.00]	µg/L	13:07:09
1	Cd 226.502†	-128.2	-127.7	[0.00]	µg/L	13:09:09
1	Co 228.616†	-101.8	-101.3	[0.00]	µg/L	13:09:09
1	Cr 267.716†	120.7	120.1	[0.00]	µg/L	13:09:09
1	Cu 324.752†	3887.2	3869.5	[0.00]	µg/L	13:08:49
1	Fe 238.204 Radial†	27.6	27.4	[0.00]	µg/L	13:07:09
1	K 766.490 Radial†	652.0	647.3	[0.00]	µg/L	13:06:49
1	Mg 279.077 IEC†	8.7	8.7	[0.00]	µg/L	13:07:09
1	Mn 257.610†	200.0	199.1	[0.00]	µg/L	13:09:09
1	Mo 202.031†	-9.9	-9.9	[0.00]	µg/L	13:09:09
1	Na 589.592 Radial†	-35.5	-35.2	[0.00]	µg/L	13:06:49
1	Ni 231.604†	-45.4	-45.2	[0.00]	µg/L	13:09:09
1	P 214.914†	-62.5	-62.2	[0.00]	µg/L	13:09:09
1	Pb 220.353†	115.1	114.6	[0.00]	µg/L	13:09:09
1	S 181.975 Axial†	24.0	23.8	[0.00]	µg/L	13:09:09
1	Sb 206.836†	2.8	2.8	[0.00]	µg/L	13:09:09
1	Se 196.026†	12.6	12.5	[0.00]	µg/L	13:09:09
1	SiO2†	1823.7	1815.3	[0.00]	µg/L	13:09:09
1	Si 251.611†	397.1	395.3	[0.00]	µg/L	13:09:09
1	Sn 189.927†	-2.4	-2.4	[0.00]	µg/L	13:09:09
1	Sr 421.552†	29.1	28.9	[0.00]	µg/L	13:06:49
1	Ti 334.940†	1563.9	1556.8	[0.00]	µg/L	13:08:49
1	Tl 190.801†	-16.2	-16.2	[0.00]	µg/L	13:09:09
1	U 367.007†	302.1	300.7	[0.00]	µg/L	13:08:49
1	V 292.402†	421.9	420.0	[0.00]	µg/L	13:08:49
1	Zn 213.857†	533.6	531.2	[0.00]	µg/L	13:09:09
2	Sc 361.383	1248392.0	1248392.0	99.089	%	13:09:11
2	Sc RADIAL	21952.4	21952.4	99.7	%	13:07:29
2	Y 371.029	738248.3	738248.3	99.076	%	13:09:11
2	Ag 328.068†	624.1	629.8	[0.00]	µg/L	13:09:13
2	Al 396.153Radial†	-100.9	-101.2	[0.00]	µg/L	13:07:29
2	As 188.979†	-3.0	-3.0	[0.00]	µg/L	13:09:33
2	B 249.677†	247.6	249.8	[0.00]	µg/L	13:09:33
2	Ba 233.527†	-82.8	-83.6	[0.00]	µg/L	13:09:33
2	Be 313.107†	-6901.1	-6964.6	[0.00]	µg/L	13:09:13
2	Ca 317.933Radial†	72.2	72.4	[0.00]	µg/L	13:07:49
2	Cd 226.502†	-104.2	-105.2	[0.00]	µg/L	13:09:33
2	Co 228.616†	-94.6	-95.5	[0.00]	µg/L	13:09:33
2	Cr 267.716†	131.0	132.2	[0.00]	µg/L	13:09:33
2	Cu 324.752†	3815.3	3850.4	[0.00]	µg/L	13:09:13
2	Fe 238.204 Radial†	28.5	28.5	[0.00]	µg/L	13:07:49
2	K 766.490 Radial†	646.9	649.0	[0.00]	µg/L	13:07:29
2	Mg 279.077 IEC†	6.2	6.2	[0.00]	µg/L	13:07:49
2	Mn 257.610†	212.2	214.1	[0.00]	µg/L	13:09:33
2	Mo 202.031†	-1.9	-1.9	[0.00]	µg/L	13:09:33
2	Na 589.592 Radial†	-31.4	-31.5	[0.00]	µg/L	13:07:29
2	Ni 231.604†	-38.0	-38.3	[0.00]	µg/L	13:09:33
2	P 214.914†	-56.5	-57.0	[0.00]	µg/L	13:09:33
2	Pb 220.353†	92.5	93.4	[0.00]	µg/L	13:09:33
2	S 181.975 Axial†	21.9	22.1	[0.00]	µg/L	13:09:33
2	Sb 206.836†	7.7	7.8	[0.00]	µg/L	13:09:33
2	Se 196.026†	7.6	7.7	[0.00]	µg/L	13:09:33
2	SiO2†	1822.1	1838.8	[0.00]	µg/L	13:09:33
2	Si 251.611†	430.9	434.9	[0.00]	µg/L	13:09:33
2	Sn 189.927†	-2.4	-2.5	[0.00]	µg/L	13:09:33
2	Sr 421.552†	36.7	36.8	[0.00]	µg/L	13:07:29
2	Ti 334.940†	1548.3	1562.5	[0.00]	µg/L	13:09:13
2	Tl 190.801†	-17.8	-17.9	[0.00]	µg/L	13:09:33
2	U 367.007†	304.3	307.1	[0.00]	µg/L	13:09:13
2	V 292.402†	283.1	285.7	[0.00]	µg/L	13:09:13
2	Zn 213.857†	543.7	548.7	[0.00]	µg/L	13:09:33
3	Sc 361.383	1265564.8	1265564.8	100.45	%	13:09:35
3	Sc RADIAL	21931.9	21931.9	99.6	%	13:08:09
3	Y 371.029	748801.3	748801.3	100.49	%	13:09:35
3	Ag 328.068†	597.1	594.4	[0.00]	µg/L	13:09:37
3	Al 396.153Radial†	-89.7	-90.1	[0.00]	µg/L	13:08:09
3	As 188.979†	-0.8	-0.8	[0.00]	µg/L	13:09:57
3	B 249.677†	265.5	264.3	[0.00]	µg/L	13:09:57

3	Ba 233.527†	-85.0	-84.6	[0.00]	µg/L	13:09:57
3	Be 313.107†	-6957.8	-6926.5	[0.00]	µg/L	13:09:37
3	Ca 317.933Radial†	84.1	84.4	[0.00]	µg/L	13:08:29
3	Cd 226.502†	-96.1	-95.7	[0.00]	µg/L	13:09:57
3	Co 228.616†	-98.8	-98.4	[0.00]	µg/L	13:09:57
3	Cr 267.716†	107.3	106.8	[0.00]	µg/L	13:09:57
3	Cu 324.752†	3883.1	3865.7	[0.00]	µg/L	13:09:37
3	Fe 238.204 Radial†	28.3	28.4	[0.00]	µg/L	13:08:29
3	K 766.490 Radial†	657.9	660.6	[0.00]	µg/L	13:08:09
3	Mg 279.077 IEC†	-2.0	-2.0	[0.00]	µg/L	13:08:29
3	Mn 257.610†	203.5	202.6	[0.00]	µg/L	13:09:57
3	Mo 202.031†	-14.8	-14.7	[0.00]	µg/L	13:09:57
3	Na 589.592 Radial†	-31.8	-32.0	[0.00]	µg/L	13:08:09
3	Ni 231.604†	-45.2	-45.0	[0.00]	µg/L	13:09:57
3	P 214.914†	-61.2	-60.9	[0.00]	µg/L	13:09:57
3	Pb 220.353†	99.8	99.4	[0.00]	µg/L	13:09:57
3	S 181.975 Axial†	23.0	22.9	[0.00]	µg/L	13:09:57
3	Sb 206.836†	5.4	5.4	[0.00]	µg/L	13:09:57
3	Se 196.026†	13.2	13.1	[0.00]	µg/L	13:09:57
3	SiO2†	1817.8	1809.6	[0.00]	µg/L	13:09:57
3	Si 251.611†	411.1	409.2	[0.00]	µg/L	13:09:57
3	Sn 189.927†	-0.6	-0.6	[0.00]	µg/L	13:09:57
3	Sr 421.552†	35.1	35.3	[0.00]	µg/L	13:08:09
3	Ti 334.940†	1642.3	1634.9	[0.00]	µg/L	13:09:37
3	Tl 190.801†	-14.8	-14.7	[0.00]	µg/L	13:09:57
3	U 367.007†	338.8	337.3	[0.00]	µg/L	13:09:37
3	V 292.402†	383.0	381.2	[0.00]	µg/L	13:09:37
3	Zn 213.857†	551.4	548.9	[0.00]	µg/L	13:09:57

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1259867.1	9937.83	0.79%	100.00	%
Sc RADIAL	22022.1	138.85	0.63%	100	%
Y 371.029	745136.8	5969.64	0.80%	100.00	%
Ag 328.068†	669.7	101.25	15.12%	[0.00]	µg/L
Al 396.153Radial†	-91.2	9.57	10.50%	[0.00]	µg/L
As 188.979†	-2.5	1.52	59.71%	[0.00]	µg/L
B 249.677†	259.5	8.34	3.22%	[0.00]	µg/L
Ba 233.527†	-82.6	2.65	3.21%	[0.00]	µg/L
Be 313.107†	-6869.1	133.71	1.95%	[0.00]	µg/L
Ca 317.933Radial†	82.3	8.99	10.93%	[0.00]	µg/L
Cd 226.502†	-109.5	16.43	15.00%	[0.00]	µg/L
Co 228.616†	-98.4	2.92	2.97%	[0.00]	µg/L
Cr 267.716†	119.7	12.72	10.62%	[0.00]	µg/L
Cu 324.752†	3861.8	10.08	0.26%	[0.00]	µg/L
Fe 238.204 Radial†	28.1	0.61	2.18%	[0.00]	µg/L
K 766.490 Radial†	652.3	7.24	1.11%	[0.00]	µg/L
Mg 279.077 IEC†	4.3	5.57	129.95%	[0.00]	µg/L
Mn 257.610†	205.3	7.90	3.85%	[0.00]	µg/L
Mo 202.031†	-8.8	6.45	72.95%	[0.00]	µg/L
Na 589.592 Radial†	-32.9	2.02	6.15%	[0.00]	µg/L
Ni 231.604†	-42.8	3.90	9.10%	[0.00]	µg/L
P 214.914†	-60.0	2.68	4.46%	[0.00]	µg/L
Pb 220.353†	102.4	10.93	10.67%	[0.00]	µg/L
S 181.975 Axial†	22.9	0.89	3.86%	[0.00]	µg/L
Sb 206.836†	5.3	2.49	46.69%	[0.00]	µg/L
Se 196.026†	11.1	2.98	26.87%	[0.00]	µg/L
SiO2†	1821.3	15.46	0.85%	[0.00]	µg/L
Si 251.611†	413.1	20.06	4.86%	[0.00]	µg/L
Sn 189.927†	-1.8	1.04	56.71%	[0.00]	µg/L
Sr 421.552†	33.6	4.18	12.42%	[0.00]	µg/L
Ti 334.940†	1584.7	43.56	2.75%	[0.00]	µg/L
Tl 190.801†	-16.3	1.61	9.93%	[0.00]	µg/L
U 367.007†	315.0	19.57	6.21%	[0.00]	µg/L
V 292.402†	362.3	69.14	19.08%	[0.00]	µg/L
Zn 213.857†	542.9	10.18	1.88%	[0.00]	µg/L

U 367.007†	315.0	19.57	6.21%	[0.00] µg/L
V 292.402†	362.3	69.14	19.08%	[0.00] µg/L
Zn 213.857†	542.9	10.18	1.88%	[0.00] µg/L

Sequence No.: 2
Sample ID: S0.1
Analyst:
Logged In Analyst (Original) : optima4
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/6/2013 13:10:06
Data Type: Reprocessed on 11/6/2013 14:25:40

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	1283392.5	1283392.5	101.87	%	13:10:58
1	Sc RADIAL	22554.2	22554.2	102	%	13:10:37
1	Y 371.029	755067.2	755067.2	101.33	%	13:10:58
1	Ag 328.068†	15737.9	14779.8	[100]	µg/L	13:11:00
1	As 188.979†	41.0	42.8	[100]	µg/L	13:11:20
1	B 249.677†	8391.5	7978.2	[100]	µg/L	13:11:00
1	Ba 233.527†	7105.0	7057.3	[100]	µg/L	13:11:00
1	Be 313.107†	225604.4	228338.1	[100]	µg/L	13:10:58
1	Cd 226.502†	6416.5	6408.3	[100]	µg/L	13:11:00
1	Co 228.616†	3373.4	3410.0	[100]	µg/L	13:11:20
1	Cr 267.716†	5727.5	5502.8	[100]	µg/L	13:11:00
1	Cu 324.752†	18945.2	14736.1	[100]	µg/L	13:11:00
1	K 766.490 Radial†	1480.2	792.9	[1000]	µg/L	13:10:37
1	Mn 257.610†	35371.2	34517.6	[100]	µg/L	13:11:00
1	Mo 202.031†	872.5	865.4	[100]	µg/L	13:11:20
1	Ni 231.604†	3434.5	3414.3	[100]	µg/L	13:11:00
1	P 214.914†	401.0	453.7	[500]	µg/L	13:11:20
1	Pb 220.353†	557.7	445.1	[100]	µg/L	13:11:20
1	S 181.975 Axial†	88.5	64.0	[200]	µg/L	13:11:20
1	Sb 206.836†	167.5	159.1	[100]	µg/L	13:11:20
1	Se 196.026†	85.3	72.6	[100]	µg/L	13:11:20
1	SiO2†	7654.5	5692.9	[1069.5]	µg/L	13:11:00
1	Si 251.611†	17440.1	16707.3	[500]	µg/L	13:11:00
1	Sn 189.927†	249.8	247.1	[100]	µg/L	13:11:20
1	Sr 421.552†	8645.3	8407.7	[100]	µg/L	13:10:37
1	Ti 334.940†	55344.6	52745.4	[100]	µg/L	13:11:00
1	Tl 190.801†	63.0	78.1	[100]	µg/L	13:11:20
1	U 367.007†	636.9	310.2	[100]	µg/L	13:11:00
1	V 292.402†	14582.3	13952.7	[100]	µg/L	13:11:00
1	Zn 213.857†	8526.3	7827.1	[100]	µg/L	13:11:00
2	Sc 361.383	1262445.6	1262445.6	100.20	%	13:11:22
2	Sc RADIAL	23604.4	23604.4	107	%	13:10:39
2	Y 371.029	742551.0	742551.0	99.653	%	13:11:22
2	Ag 328.068†	15739.9	15038.0	[100]	µg/L	13:11:25
2	As 188.979†	47.5	50.0	[100]	µg/L	13:11:45
2	B 249.677†	8340.7	8064.2	[100]	µg/L	13:11:25
2	Ba 233.527†	7033.8	7102.0	[100]	µg/L	13:11:25
2	Be 313.107†	222447.1	228861.9	[100]	µg/L	13:11:22
2	Cd 226.502†	6268.5	6365.2	[100]	µg/L	13:11:25
2	Co 228.616†	3389.2	3480.6	[100]	µg/L	13:11:45
2	Cr 267.716†	5594.8	5463.7	[100]	µg/L	13:11:25
2	Cu 324.752†	18650.8	14750.9	[100]	µg/L	13:11:25
2	K 766.490 Radial†	1550.0	793.7	[1000]	µg/L	13:10:39
2	Mn 257.610†	35276.8	34999.5	[100]	µg/L	13:11:25
2	Mo 202.031†	886.7	893.7	[100]	µg/L	13:11:45
2	Ni 231.604†	3478.3	3514.0	[100]	µg/L	13:11:25
2	P 214.914†	415.3	474.5	[500]	µg/L	13:11:45
2	Pb 220.353†	559.9	456.3	[100]	µg/L	13:11:45
2	S 181.975 Axial†	80.1	57.0	[200]	µg/L	13:11:45
2	Sb 206.836†	164.7	159.1	[100]	µg/L	13:11:45
2	Se 196.026†	81.4	70.1	[100]	µg/L	13:11:45
2	SiO2†	7536.6	5700.0	[1069.5]	µg/L	13:11:25
2	Si 251.611†	17510.0	17061.1	[500]	µg/L	13:11:25
2	Sn 189.927†	249.9	251.2	[100]	µg/L	13:11:45
2	Sr 421.552†	8634.1	8021.7	[100]	µg/L	13:10:39
2	Ti 334.940†	54844.1	53147.3	[100]	µg/L	13:11:25
2	Tl 190.801†	69.1	85.2	[100]	µg/L	13:11:45
2	U 367.007†	746.2	429.7	[100]	µg/L	13:11:25

2	V 292.402†	14452.5	14060.7	[100]	µg/L	13:11:25
2	Zn 213.857†	8452.6	7892.4	[100]	µg/L	13:11:25
3	Sc 361.383	1289397.2	1289397.2	102.34	%	13:11:47
3	Sc RADIAL	22112.2	22112.2	100	%	13:10:41
3	Y 371.029	758196.1	758196.1	101.75	%	13:11:47
3	Ag 328.068†	15631.4	14603.7	[100]	µg/L	13:11:49
3	As 188.979†	45.1	46.6	[100]	µg/L	13:12:09
3	B 249.677†	8269.3	7820.5	[100]	µg/L	13:11:49
3	Ba 233.527†	7049.2	6970.4	[100]	µg/L	13:11:49
3	Be 313.107†	228044.3	229690.7	[100]	µg/L	13:11:47
3	Cd 226.502†	6252.5	6218.8	[100]	µg/L	13:11:49
3	Co 228.616†	3375.3	3396.4	[100]	µg/L	13:12:09
3	Cr 267.716†	5688.8	5438.8	[100]	µg/L	13:11:49
3	Cu 324.752†	18443.8	14159.6	[100]	µg/L	13:11:49
3	K 766.490 Radial†	1383.2	725.3	[1000]	µg/L	13:10:41
3	Mn 257.610†	35027.5	34020.0	[100]	µg/L	13:11:49
3	Mo 202.031†	870.9	859.8	[100]	µg/L	13:12:09
3	Ni 231.604†	3321.5	3288.2	[100]	µg/L	13:11:49
3	P 214.914†	414.8	465.3	[500]	µg/L	13:12:09
3	Pb 220.353†	575.8	460.2	[100]	µg/L	13:12:09
3	S 181.975 Axial†	89.4	64.4	[200]	µg/L	13:12:09
3	Sb 206.836†	159.1	150.1	[100]	µg/L	13:12:09
3	Se 196.026†	88.7	75.6	[100]	µg/L	13:12:09
3	SiO2†	7544.0	5550.0	[1069.5]	µg/L	13:11:49
3	Si 251.611†	17321.3	16511.4	[500]	µg/L	13:11:49
3	Sn 189.927†	250.6	246.7	[100]	µg/L	13:12:09
3	Sr 421.552†	8638.6	8569.8	[100]	µg/L	13:10:41
3	Ti 334.940†	54500.7	51667.8	[100]	µg/L	13:11:49
3	Tl 190.801†	66.1	80.8	[100]	µg/L	13:12:09
3	U 367.007†	652.7	322.7	[100]	µg/L	13:11:49
3	V 292.402†	14239.9	13551.5	[100]	µg/L	13:11:49
3	Zn 213.857†	8414.2	7678.6	[100]	µg/L	13:11:49

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1278411.8	14149.32	1.11%	101.47	%
Sc RADIAL	22756.9	766.45	3.37%	103	%
Y 371.029	751938.1	8278.60	1.10%	100.91	%
Ag 328.068†	14807.2	218.48	1.48%	[100]	µg/L
As 188.979†	46.5	3.57	7.69%	[100]	µg/L
B 249.677†	7954.3	123.62	1.55%	[100]	µg/L
Ba 233.527†	7043.2	66.93	0.95%	[100]	µg/L
Be 313.107†	228963.6	682.03	0.30%	[100]	µg/L
Cd 226.502†	6330.8	99.33	1.57%	[100]	µg/L
Co 228.616†	3429.0	45.23	1.32%	[100]	µg/L
Cr 267.716†	5468.4	32.27	0.59%	[100]	µg/L
Cu 324.752†	14548.8	337.20	2.32%	[100]	µg/L
K 766.490 Radial†	770.7	39.29	5.10%	[1000]	µg/L
Mn 257.610†	34512.4	489.76	1.42%	[100]	µg/L
Mo 202.031†	872.9	18.18	2.08%	[100]	µg/L
Ni 231.604†	3405.5	113.16	3.32%	[100]	µg/L
P 214.914†	464.5	10.43	2.25%	[500]	µg/L
Pb 220.353†	453.8	7.86	1.73%	[100]	µg/L
S 181.975 Axial†	61.8	4.16	6.73%	[200]	µg/L
Sb 206.836†	156.1	5.19	3.33%	[100]	µg/L
Se 196.026†	72.8	2.74	3.77%	[100]	µg/L
SiO2†	5647.6	84.63	1.50%	[1069.5]	µg/L
Si 251.611†	16759.9	278.58	1.66%	[500]	µg/L
Sn 189.927†	248.3	2.51	1.01%	[100]	µg/L
Sr 421.552†	8333.0	281.59	3.38%	[100]	µg/L
Ti 334.940†	52520.1	765.05	1.46%	[100]	µg/L
Tl 190.801†	81.4	3.59	4.41%	[100]	µg/L
U 367.007†	354.2	65.66	18.54%	[100]	µg/L
V 292.402†	13855.0	268.30	1.94%	[100]	µg/L
Zn 213.857†	7799.4	109.55	1.40%	[100]	µg/L

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Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S0.5 **Date Collected: 11/6/2013 13:12:17**
Analyst: **Data Type: Reprocessed on 11/6/2013 14:25:41**
Logged In Analyst (Original) : optima4
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	1270763.6	1270763.6	100.86	%	13:14:08
1	Sc RADIAL	19653.7	19653.7	89.2	%	13:12:46
1	Y 371.029	735485.6	735485.6	98.705	%	13:14:08
1	Ag 328.068†	76258.3	74934.7	[500]	µg/L	13:14:10
1	Al 396.153Radial†	3059.1	3518.9	[5000]	µg/L	13:13:06
1	As 188.979†	240.8	241.2	[500]	µg/L	13:14:30
1	B 249.677†	41550.8	40935.1	[500]	µg/L	13:14:10
1	Ba 233.527†	35582.7	35360.2	[500]	µg/L	13:14:10
1	Be 313.107†	1131056.0	1128226.6	[500]	µg/L	13:14:08
1	Ca 317.933Radial†	7326.9	8127.6	[5000]	µg/L	13:13:06
1	Cd 226.502†	32169.7	32003.3	[500]	µg/L	13:14:10
1	Co 228.616†	17087.3	17039.2	[500]	µg/L	13:14:10
1	Cr 267.716†	27520.1	27164.4	[500]	µg/L	13:14:10
1	Cu 324.752†	78659.2	74122.9	[500]	µg/L	13:14:10
1	K 766.490 Radial†	4191.9	4044.7	[5000]	µg/L	13:12:46
1	Mg 279.077 IEC†	737.0	821.6	[5000]	µg/L	13:13:06
1	Mn 257.610†	173314.9	171623.5	[500]	µg/L	13:14:10
1	Mo 202.031†	4316.1	4287.9	[500]	µg/L	13:14:30
1	Ni 231.604†	16996.2	16893.3	[500]	µg/L	13:14:10
1	P 214.914†	2250.9	2291.7	[2500]	µg/L	13:14:30
1	Pb 220.353†	2373.6	2250.8	[500]	µg/L	13:14:30
1	S 181.975 Axial†	323.5	297.8	[1000]	µg/L	13:14:30
1	Sb 206.836†	779.2	767.1	[500]	µg/L	13:14:30
1	Se 196.026†	373.5	359.2	[500]	µg/L	13:14:30
1	SiO2†	31048.2	28960.7	[5347.5]	µg/L	13:14:10
1	Si 251.611†	86036.4	84885.6	[2500]	µg/L	13:14:10
1	Sn 189.927†	1212.5	1204.0	[500]	µg/L	13:14:30
1	Sr 421.552†	38440.5	43039.2	[500]	µg/L	13:12:46
1	Ti 334.940†	271188.8	267278.6	[500]	µg/L	13:14:10
1	Tl 190.801†	385.3	398.3	[500]	µg/L	13:14:30
1	U 367.007†	2082.0	1749.2	[500]	µg/L	13:14:10
1	V 292.402†	71417.3	70442.6	[500]	µg/L	13:14:10
1	Zn 213.857†	40014.8	39128.7	[500]	µg/L	13:14:10
2	Sc 361.383	1283937.9	1283937.9	101.91	%	13:14:32
2	Sc RADIAL	21910.3	21910.3	99.5	%	13:13:08
2	Y 371.029	743304.0	743304.0	99.754	%	13:14:32
2	Ag 328.068†	74920.9	72846.6	[500]	µg/L	13:14:35
2	Al 396.153Radial†	3060.2	3166.9	[5000]	µg/L	13:13:28
2	As 188.979†	249.6	247.4	[500]	µg/L	13:14:55
2	B 249.677†	40779.1	39755.1	[500]	µg/L	13:14:35
2	Ba 233.527†	34783.1	34213.6	[500]	µg/L	13:14:35
2	Be 313.107†	1142796.3	1128240.7	[500]	µg/L	13:14:32
2	Ca 317.933Radial†	7347.1	7302.3	[5000]	µg/L	13:13:28
2	Cd 226.502†	31415.6	30936.2	[500]	µg/L	13:14:35
2	Co 228.616†	16702.8	16488.1	[500]	µg/L	13:14:35
2	Cr 267.716†	26892.9	26269.1	[500]	µg/L	13:14:35
2	Cu 324.752†	77176.6	71867.9	[500]	µg/L	13:14:35
2	K 766.490 Radial†	4575.6	3946.6	[5000]	µg/L	13:13:08
2	Mg 279.077 IEC†	731.2	730.6	[5000]	µg/L	13:13:28
2	Mn 257.610†	169572.9	166188.5	[500]	µg/L	13:14:35
2	Mo 202.031†	4324.1	4251.9	[500]	µg/L	13:14:55
2	Ni 231.604†	16547.8	16280.4	[500]	µg/L	13:14:35
2	P 214.914†	2249.6	2267.5	[2500]	µg/L	13:14:55
2	Pb 220.353†	2382.6	2235.5	[500]	µg/L	13:14:55
2	S 181.975 Axial†	317.2	288.3	[1000]	µg/L	13:14:55
2	Sb 206.836†	773.7	753.8	[500]	µg/L	13:14:55
2	Se 196.026†	377.7	359.5	[500]	µg/L	13:14:55
2	SiO2†	30374.6	27983.9	[5347.5]	µg/L	13:14:35

2	Si 251.611†	84135.8	82145.3	[2500]	µg/L	13:14:35
2	Sn 189.927†	1206.7	1185.9	[500]	µg/L	13:14:55
2	Sr 421.552†	42597.5	42781.1	[500]	µg/L	13:13:08
2	Ti 334.940†	265899.4	259329.7	[500]	µg/L	13:14:35
2	Tl 190.801†	391.1	400.0	[500]	µg/L	13:14:55
2	U 367.007†	2135.3	1780.2	[500]	µg/L	13:14:35
2	V 292.402†	69791.7	68121.0	[500]	µg/L	13:14:35
2	Zn 213.857†	39088.5	37812.8	[500]	µg/L	13:14:35
3	Sc 361.383	1219638.6	1219638.6	96.807	%	13:14:57
3	Sc RADIAL	22518.7	22518.7	102	%	13:13:30
3	Y 371.029	706681.2	706681.2	94.839	%	13:14:57
3	Ag 328.068†	71354.3	73038.1	[500]	µg/L	13:14:59
3	Al 396.153Radial†	2994.3	3019.4	[5000]	µg/L	13:13:50
3	As 188.979†	243.0	253.5	[500]	µg/L	13:15:19
3	B 249.677†	38398.5	39405.6	[500]	µg/L	13:14:59
3	Ba 233.527†	32867.5	34034.2	[500]	µg/L	13:14:59
3	Be 313.107†	1080421.9	1122927.6	[500]	µg/L	13:14:57
3	Ca 317.933Radial†	7323.3	7079.5	[5000]	µg/L	13:13:50
3	Cd 226.502†	29460.9	30542.1	[500]	µg/L	13:14:59
3	Co 228.616†	15754.7	16372.7	[500]	µg/L	13:14:59
3	Cr 267.716†	25319.8	26035.2	[500]	µg/L	13:14:59
3	Cu 324.752†	73464.0	72025.3	[500]	µg/L	13:14:59
3	K 766.490 Radial†	4703.6	3947.6	[5000]	µg/L	13:13:30
3	Mg 279.077 IEC†	737.6	717.0	[5000]	µg/L	13:13:50
3	Mn 257.610†	160394.6	165479.8	[500]	µg/L	13:14:59
3	Mo 202.031†	4348.4	4500.7	[500]	µg/L	13:15:19
3	Ni 231.604†	15554.8	16110.7	[500]	µg/L	13:14:59
3	P 214.914†	2272.0	2407.0	[2500]	µg/L	13:15:19
3	Pb 220.353†	2399.4	2376.1	[500]	µg/L	13:15:19
3	S 181.975 Axial†	325.0	312.8	[1000]	µg/L	13:15:19
3	Sb 206.836†	768.9	788.9	[500]	µg/L	13:15:19
3	Se 196.026†	381.1	382.6	[500]	µg/L	13:15:19
3	SiO2†	28882.2	28013.6	[5347.5]	µg/L	13:14:59
3	Si 251.611†	79640.2	81853.9	[2500]	µg/L	13:14:59
3	Sn 189.927†	1213.2	1255.1	[500]	µg/L	13:15:19
3	Sr 421.552†	43782.1	42782.9	[500]	µg/L	13:13:30
3	Ti 334.940†	252528.1	259272.7	[500]	µg/L	13:14:59
3	Tl 190.801†	383.7	412.6	[500]	µg/L	13:15:19
3	U 367.007†	2040.7	1793.0	[500]	µg/L	13:14:59
3	V 292.402†	65943.6	67756.4	[500]	µg/L	13:14:59
3	Zn 213.857†	36924.8	37599.8	[500]	µg/L	13:14:59

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1258113.3	33964.99	2.70%	99.861	%
Sc RADIAL	21360.9	1509.46	7.07%	97.0	%
Y 371.029	728490.3	19287.51	2.65%	97.766	%
Ag 328.068†	73606.5	1154.22	1.57%	[500]	µg/L
Al 396.153Radial†	3235.1	256.63	7.93%	[5000]	µg/L
As 188.979†	247.4	6.15	2.48%	[500]	µg/L
B 249.677†	40031.9	801.45	2.00%	[500]	µg/L
Ba 233.527†	34536.0	719.40	2.08%	[500]	µg/L
Be 313.107†	1126465.0	3063.47	0.27%	[500]	µg/L
Ca 317.933Radial†	7503.1	552.16	7.36%	[5000]	µg/L
Cd 226.502†	31160.5	756.02	2.43%	[500]	µg/L
Co 228.616†	16633.3	356.19	2.14%	[500]	µg/L
Cr 267.716†	26489.6	596.03	2.25%	[500]	µg/L
Cu 324.752†	72672.0	1258.92	1.73%	[500]	µg/L
K 766.490 Radial†	3979.7	56.37	1.42%	[5000]	µg/L
Mg 279.077 IEC†	756.4	56.83	7.51%	[5000]	µg/L
Mn 257.610†	167763.9	3361.20	2.00%	[500]	µg/L
Mo 202.031†	4346.8	134.48	3.09%	[500]	µg/L
Ni 231.604†	16428.1	411.67	2.51%	[500]	µg/L
P 214.914†	2322.0	74.57	3.21%	[2500]	µg/L
Pb 220.353†	2287.5	77.14	3.37%	[500]	µg/L
S 181.975 Axial†	299.6	12.35	4.12%	[1000]	µg/L
Sb 206.836†	770.0	17.70	2.30%	[500]	µg/L
Se 196.026†	367.1	13.43	3.66%	[500]	µg/L
SiO2†	28319.4	555.60	1.96%	[5347.5]	µg/L

Sn 189.927†	1215.0	35.85	2.95%	[500] µg/L
Sr 421.552†	42867.8	148.51	0.35%	[500] µg/L
Ti 334.940†	261960.3	4605.87	1.76%	[500] µg/L
Tl 190.801†	403.6	7.83	1.94%	[500] µg/L
U 367.007†	1774.1	22.54	1.27%	[500] µg/L
V 292.402†	68773.3	1457.10	2.12%	[500] µg/L
Zn 213.857†	38180.4	828.11	2.17%	[500] µg/L

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Sequence No.: 4 **Autosampler Location: 4**
Sample ID: SCAL **Date Collected: 11/6/2013 13:15:27**
Analyst: **Data Type: Reprocessed on 11/6/2013 14:25:42**
Logged In Analyst (Original) : optima4
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	1270347.6	1270347.6	100.83	%	13:17:19
1	Sc RADIAL	22037.6	22037.6	100	%	13:16:16
1	Y 371.029	733463.1	733463.1	98.433	%	13:17:19
1	Ag 328.068†	153466.7	151530.9	[1000]	µg/L	13:17:21
1	Al 396.153Radial†	6408.7	6495.3	[10000]	µg/L	13:16:16
1	As 188.979†	513.3	511.6	[1000]	µg/L	13:17:41
1	B 249.677†	85208.1	84245.7	[1000]	µg/L	13:17:21
1	Ba 233.527†	72831.4	72313.1	[1000]	µg/L	13:17:21
1	Be 313.107†	2342303.9	2329848.7	[1000]	µg/L	13:17:19
1	Ca 317.933Radial†	15059.1	14966.3	[10000]	µg/L	13:16:16
1	Cd 226.502†	65667.7	65235.5	[1000]	µg/L	13:17:21
1	Co 228.616†	34814.6	34625.8	[1000]	µg/L	13:17:21
1	Cr 267.716†	56197.9	55614.5	[1000]	µg/L	13:17:21
1	Cu 324.752†	156664.9	151510.5	[1000]	µg/L	13:17:21
1	Fe 238.204 Radial†	3092.9	3062.6	[10000]	µg/L	13:16:16
1	K 766.490 Radial†	8833.3	8174.8	[10000]	µg/L	13:15:56
1	Mg 279.077 IEC†	1508.6	1503.3	[10000]	µg/L	13:16:16
1	Mn 257.610†	351490.3	348385.2	[1000]	µg/L	13:17:21
1	Mo 202.031†	8963.9	8898.8	[1000]	µg/L	13:17:41
1	Na 589.592 Radial†	13396.0	13419.4	[10000]	µg/L	13:15:56
1	Ni 231.604†	34344.7	34104.2	[1000]	µg/L	13:17:21
1	P 214.914†	4735.4	4756.4	[5000]	µg/L	13:17:41
1	Pb 220.353†	4834.3	4691.9	[1000]	µg/L	13:17:41
1	S 181.975 Axial†	638.1	609.9	[2000]	µg/L	13:17:41
1	Sb 206.836†	1614.6	1596.0	[1000]	µg/L	13:17:41
1	Se 196.026†	756.5	739.1	[1000]	µg/L	13:17:41
1	SiO2†	61348.9	59021.5	[10695]	µg/L	13:17:21
1	Si 251.611†	174504.8	172652.0	[5000]	µg/L	13:17:21
1	Sn 189.927†	2492.6	2473.9	[1000]	µg/L	13:17:41
1	Sr 421.552†	88118.3	88022.6	[1000]	µg/L	13:15:56
1	Ti 334.940†	548312.1	542203.7	[1000]	µg/L	13:17:19
1	Tl 190.801†	816.9	826.4	[1000]	µg/L	13:17:41
1	U 367.007†	4069.6	3721.0	[1000]	µg/L	13:17:21
1	V 292.402†	146065.1	144497.8	[1000]	µg/L	13:17:21
1	Zn 213.857†	80899.3	79689.0	[1000]	µg/L	13:17:21
2	Sc 361.383	1269057.3	1269057.3	100.73	%	13:17:44
2	Sc RADIAL	22044.3	22044.3	100	%	13:16:39
2	Y 371.029	733164.3	733164.3	98.393	%	13:17:44
2	Ag 328.068†	150258.2	148500.4	[1000]	µg/L	13:17:46
2	Al 396.153Radial†	6383.9	6468.7	[10000]	µg/L	13:16:39
2	As 188.979†	512.3	511.1	[1000]	µg/L	13:18:06
2	B 249.677†	83286.4	82423.8	[1000]	µg/L	13:17:46
2	Ba 233.527†	71371.3	70937.0	[1000]	µg/L	13:17:46
2	Be 313.107†	2322143.0	2312195.7	[1000]	µg/L	13:17:44
2	Ca 317.933Radial†	15169.1	15071.6	[10000]	µg/L	13:16:39
2	Cd 226.502†	63980.1	63626.3	[1000]	µg/L	13:17:46
2	Co 228.616†	33769.3	33623.2	[1000]	µg/L	13:17:46
2	Cr 267.716†	54870.9	54353.8	[1000]	µg/L	13:17:46
2	Cu 324.752†	153669.3	148694.6	[1000]	µg/L	13:17:46
2	Fe 238.204 Radial†	3112.1	3080.9	[10000]	µg/L	13:16:39
2	K 766.490 Radial†	8628.6	7967.6	[10000]	µg/L	13:16:18
2	Mg 279.077 IEC†	1512.7	1506.9	[10000]	µg/L	13:16:39
2	Mn 257.610†	343498.4	340805.6	[1000]	µg/L	13:17:46
2	Mo 202.031†	8952.4	8896.4	[1000]	µg/L	13:18:06
2	Na 589.592 Radial†	13265.4	13284.9	[10000]	µg/L	13:16:18
2	Ni 231.604†	33395.2	33196.2	[1000]	µg/L	13:17:46
2	P 214.914†	4716.2	4742.1	[5000]	µg/L	13:18:06
2	Pb 220.353†	4848.3	4710.7	[1000]	µg/L	13:18:06

2	S 181.975 Axial†	645.1	617.5	[2000]	µg/L	13:18:06
2	Sb 206.836†	1610.4	1593.4	[1000]	µg/L	13:18:06
2	Se 196.026†	751.4	734.9	[1000]	µg/L	13:18:06
2	SiO2†	60178.2	57921.2	[10695]	µg/L	13:17:46
2	Si 251.611†	170741.7	169092.1	[5000]	µg/L	13:17:46
2	Sn 189.927†	2481.6	2465.5	[1000]	µg/L	13:18:06
2	Sr 421.552†	87609.7	87487.9	[1000]	µg/L	13:16:18
2	Ti 334.940†	543324.6	537805.2	[1000]	µg/L	13:17:44
2	Tl 190.801†	816.2	826.5	[1000]	µg/L	13:18:06
2	U 367.007†	3973.0	3629.2	[1000]	µg/L	13:17:46
2	V 292.402†	142530.7	141136.2	[1000]	µg/L	13:17:46
2	Zn 213.857†	79000.8	77885.7	[1000]	µg/L	13:17:46
3	Sc 361.383	1263437.6	1263437.6	100.28	%	13:18:08
3	Sc RADIAL	21960.4	21960.4	99.7	%	13:17:01
3	Y 371.029	729651.9	729651.9	97.922	%	13:18:08
3	Ag 328.068†	151690.6	150592.2	[1000]	µg/L	13:18:10
3	Al 396.153Radial†	6342.5	6451.5	[10000]	µg/L	13:17:01
3	As 188.979†	510.1	511.2	[1000]	µg/L	13:18:30
3	B 249.677†	84034.3	83537.3	[1000]	µg/L	13:18:10
3	Ba 233.527†	71854.4	71733.9	[1000]	µg/L	13:18:10
3	Be 313.107†	2320512.7	2320824.0	[1000]	µg/L	13:18:08
3	Ca 317.933Radial†	15072.4	15032.4	[10000]	µg/L	13:17:01
3	Cd 226.502†	64691.5	64618.2	[1000]	µg/L	13:18:10
3	Co 228.616†	34187.1	34188.9	[1000]	µg/L	13:18:10
3	Cr 267.716†	55255.6	54979.7	[1000]	µg/L	13:18:10
3	Cu 324.752†	154831.9	150532.5	[1000]	µg/L	13:18:10
3	Fe 238.204 Radial†	3086.6	3067.1	[10000]	µg/L	13:17:01
3	K 766.490 Radial†	8807.8	8180.2	[10000]	µg/L	13:16:41
3	Mg 279.077 IEC†	1493.1	1493.0	[10000]	µg/L	13:17:01
3	Mn 257.610†	346841.6	345656.1	[1000]	µg/L	13:18:10
3	Mo 202.031†	8902.4	8886.1	[1000]	µg/L	13:18:30
3	Na 589.592 Radial†	13208.4	13278.4	[10000]	µg/L	13:16:41
3	Ni 231.604†	33810.3	33757.6	[1000]	µg/L	13:18:10
3	P 214.914†	4651.9	4698.8	[5000]	µg/L	13:18:30
3	Pb 220.353†	4781.0	4665.1	[1000]	µg/L	13:18:30
3	S 181.975 Axial†	639.1	614.4	[2000]	µg/L	13:18:30
3	Sb 206.836†	1600.9	1591.0	[1000]	µg/L	13:18:30
3	Se 196.026†	742.5	729.3	[1000]	µg/L	13:18:30
3	SiO2†	60534.9	58542.5	[10695]	µg/L	13:18:10
3	Si 251.611†	171779.6	170881.0	[5000]	µg/L	13:18:10
3	Sn 189.927†	2461.0	2455.9	[1000]	µg/L	13:18:30
3	Sr 421.552†	88669.1	88884.3	[1000]	µg/L	13:16:41
3	Ti 334.940†	543253.4	540133.4	[1000]	µg/L	13:18:08
3	Tl 190.801†	819.6	833.5	[1000]	µg/L	13:18:30
3	U 367.007†	3990.9	3664.6	[1000]	µg/L	13:18:10
3	V 292.402†	143869.4	143100.6	[1000]	µg/L	13:18:10
3	Zn 213.857†	79903.4	79134.7	[1000]	µg/L	13:18:10

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1267614.2	3674.11	0.29%	100.61	%
Sc RADIAL	22014.1	46.58	0.21%	100.0	%
Y 371.029	732093.1	2119.44	0.29%	98.249	%
Ag 328.068†	150207.8	1551.38	1.03%	[1000]	µg/L
Al 396.153Radial†	6471.8	22.10	0.34%	[10000]	µg/L
As 188.979†	511.3	0.26	0.05%	[1000]	µg/L
B 249.677†	83402.3	918.40	1.10%	[1000]	µg/L
Ba 233.527†	71661.4	690.94	0.96%	[1000]	µg/L
Be 313.107†	2320956.1	8827.25	0.38%	[1000]	µg/L
Ca 317.933Radial†	15023.4	53.23	0.35%	[10000]	µg/L
Cd 226.502†	64493.3	811.83	1.26%	[1000]	µg/L
Co 228.616†	34145.9	502.70	1.47%	[1000]	µg/L
Cr 267.716†	54982.7	630.36	1.15%	[1000]	µg/L
Cu 324.752†	150245.9	1429.68	0.95%	[1000]	µg/L
Fe 238.204 Radial†	3070.2	9.53	0.31%	[10000]	µg/L
K 766.490 Radial†	8107.5	121.19	1.49%	[10000]	µg/L
Mg 279.077 IEC†	1501.1	7.21	0.48%	[10000]	µg/L
Mn 257.610†	344949.0	3838.96	1.11%	[1000]	µg/L
Mo 202.031†	8893.8	6.76	0.08%	[1000]	µg/L

Na 589.592 Radial†	13327.6	79.61	0.60%	[10000]	µg/L
Ni 231.604†	33686.0	458.20	1.36%	[1000]	µg/L
P 214.914†	4732.4	30.00	0.63%	[5000]	µg/L
Pb 220.353†	4689.2	22.95	0.49%	[1000]	µg/L
S 181.975 Axial†	613.9	3.84	0.63%	[2000]	µg/L
Sb 206.836†	1593.5	2.49	0.16%	[1000]	µg/L
Se 196.026†	734.4	4.94	0.67%	[1000]	µg/L
SiO2†	58495.1	551.73	0.94%	[10695]	µg/L
Si 251.611†	170875.0	1779.94	1.04%	[5000]	µg/L
Sn 189.927†	2465.1	9.00	0.37%	[1000]	µg/L
Sr 421.552†	88131.6	704.56	0.80%	[1000]	µg/L
Ti 334.940†	540047.4	2200.50	0.41%	[1000]	µg/L
Tl 190.801†	828.8	4.08	0.49%	[1000]	µg/L
U 367.007†	3671.6	46.28	1.26%	[1000]	µg/L
V 292.402†	142911.5	1688.73	1.18%	[1000]	µg/L
Zn 213.857†	78903.1	923.64	1.17%	[1000]	µg/L

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Sequence No.: 5
Sample ID: S10
Analyst:
Logged In Analyst (Original) : optima4
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/6/2013 13:18:39
Data Type: Reprocessed on 11/6/2013 14:25:42

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	1264795.1	1264795.1	100.39	%	13:19:37
1	Sc RADIAL	21933.3	21933.3	99.6	%	13:19:10
1	Y 371.029	725749.9	725749.9	97.398	%	13:19:37
1	Al 396.153Radial†	31122.1	31339.3	[50000]	µg/L	13:19:08
1	Ca 317.933Radial†	74116.6	74334.4	[50000]	µg/L	13:19:10
1	Fe 238.204 Radial†	5887.9	5883.6	[20000]	µg/L	13:19:10
1	Mg 279.077 IEC†	7143.8	7168.4	[50000]	µg/L	13:19:10
1	Na 589.592 Radial†	25341.5	25477.0	[20000]	µg/L	13:19:08
2	Sc 361.383	1250436.2	1250436.2	99.251	%	13:19:39
2	Sc RADIAL	22070.0	22070.0	100	%	13:19:14
2	Y 371.029	717919.6	717919.6	96.347	%	13:19:39
2	Al 396.153Radial†	31638.3	31660.8	[50000]	µg/L	13:19:12
2	Ca 317.933Radial†	74464.4	74220.4	[50000]	µg/L	13:19:14
2	Fe 238.204 Radial†	5905.0	5864.0	[20000]	µg/L	13:19:14
2	Mg 279.077 IEC†	7107.7	7088.0	[50000]	µg/L	13:19:14
2	Na 589.592 Radial†	25692.0	25669.1	[20000]	µg/L	13:19:12
3	Sc 361.383	1240599.9	1240599.9	98.471	%	13:19:42
3	Sc RADIAL	22367.2	22367.2	102	%	13:19:18
3	Y 371.029	712252.3	712252.3	95.587	%	13:19:42
3	Al 396.153Radial†	30753.3	30370.0	[50000]	µg/L	13:19:16
3	Ca 317.933Radial†	72695.5	71491.6	[50000]	µg/L	13:19:18
3	Fe 238.204 Radial†	5744.0	5627.3	[20000]	µg/L	13:19:18
3	Mg 279.077 IEC†	6975.0	6863.0	[50000]	µg/L	13:19:18
3	Na 589.592 Radial†	25126.7	24771.9	[20000]	µg/L	13:19:16

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1251943.7	12167.86	0.97%	99.371	%
Sc RADIAL	22123.5	221.85	1.00%	100	%
Y 371.029	718640.6	6777.63	0.94%	96.444	%
Al 396.153Radial†	31123.3	671.95	2.16%	[50000]	µg/L
Ca 317.933Radial†	73348.8	1609.40	2.19%	[50000]	µg/L
Fe 238.204 Radial†	5791.6	142.67	2.46%	[20000]	µg/L
Mg 279.077 IEC†	7039.8	158.27	2.25%	[50000]	µg/L
Na 589.592 Radial†	25306.0	472.41	1.87%	[20000]	µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	149.6	0.00000	0.999968	
Al 396.153Radial	3	Lin Thru 0	0.0	0.6236	0.00000	0.999964	
As 188.979	3	Lin Thru 0	0.0	0.5077	0.00000	0.999887	
B 249.677	3	Lin Thru 0	0.0	82.71	0.00000	0.999865	
Ba 233.527	3	Lin Thru 0	0.0	71.14	0.00000	0.999894	
Be 313.107	3	Lin Thru 0	0.0	2307	0.00000	0.999931	
Ca 317.933Radial	3	Lin Thru 0	0.0	1.469	0.00000	0.999987	
Cd 226.502	3	Lin Thru 0	0.0	64.05	0.00000	0.999908	
Co 228.616	3	Lin Thru 0	0.0	33.97	0.00000	0.999946	
Cr 267.716	3	Lin Thru 0	0.0	54.58	0.00000	0.999893	
Cu 324.752	3	Lin Thru 0	0.0	149.2	0.00000	0.999912	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.2931	0.00000	0.999717	
K 766.490 Radial	3	Lin Thru 0	0.0	0.8075	0.00000	0.999965	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.1413	0.00000	0.999896	
Mn 257.610	3	Lin Thru 0	0.0	343.1	0.00000	0.999940	
Mo 202.031	3	Lin Thru 0	0.0	8.853	0.00000	0.999959	

Na 589.592 Radia	2	Lin Thru 0	0.0	1.279	0.00000	0.999777
Ni 231.604	3	Lin Thru 0	0.0	33.52	0.00000	0.999950
P 214.914	3	Lin Thru 0	0.0	0.9428	0.00000	0.999971
Pb 220.353	3	Lin Thru 0	0.0	4.665	0.00000	0.999949
S 181.975 Axial	3	Lin Thru 0	0.0	0.3055	0.00000	0.999954
Sb 206.836	3	Lin Thru 0	0.0	1.583	0.00000	0.999908
Se 196.026	3	Lin Thru 0	0.0	0.7343	0.00000	1.000000
SiO2	3	Lin Thru 0	0.0	5.433	0.00000	0.999916
Si 251.611	3	Lin Thru 0	0.0	33.97	0.00000	0.999932
Sn 189.927	3	Lin Thru 0	0.0	2.458	0.00000	0.999983
Sr 421.552	3	Lin Thru 0	0.0	87.62	0.00000	0.999931
Ti 334.940	3	Lin Thru 0	0.0	536.7	0.00000	0.999927
Tl 190.801	3	Lin Thru 0	0.0	0.8244	0.00000	0.999945
U 367.007	3	Lin Thru 0	0.0	3.646	0.00000	0.999906
V 292.402	3	Lin Thru 0	0.0	141.8	0.00000	0.999884
Zn 213.857	3	Lin Thru 0	0.0	78.39	0.00000	0.999916

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Sequence No.: 6
Sample ID: ICV
Analyst:
Logged In Analyst (Original) : optima4
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 11/6/2013 13:19:50
Data Type: Reprocessed on 11/6/2013 14:25:43

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	1296022.1	1296022.1	102.87	%			13:21:42
1	Sc RADIAL	21431.9	21431.9	97.3	%			13:20:20
1	Y 371.029	755547.2	755547.2	101.40	%			13:21:42
1	Ag 328.068†	38719.2	36969.4	248.34	µg/L	248.34	ppb	13:21:42
1	Al 396.153Radial†	3015.8	3190.0	5112.9	µg/L	5112.9	ppb	13:20:40
1	As 188.979†	252.1	247.6	495.27	µg/L	495.27	ppb	13:22:02
1	B 249.677†	42572.6	41125.5	478.89	µg/L	478.89	ppb	13:21:42
1	Ba 233.527†	36371.7	35439.6	499.50	µg/L	499.50	ppb	13:21:42
1	Be 313.107†	595867.6	586113.9	254.04	µg/L	254.04	ppb	13:21:42
1	Ca 317.933Radial†	7270.0	7387.9	5029.2	µg/L	5029.2	ppb	13:20:40
1	Cd 226.502†	33237.5	32419.8	505.79	µg/L	505.79	ppb	13:21:42
1	Co 228.616†	17545.2	17154.2	504.61	µg/L	504.61	ppb	13:21:42
1	Cr 267.716†	28783.8	27861.1	510.08	µg/L	510.08	ppb	13:21:42
1	Cu 324.752†	82059.4	75908.3	509.80	µg/L	509.80	ppb	13:21:42
1	Fe 238.204 Radial†	1477.2	1489.8	5067.7	µg/L	5067.7	ppb	13:20:40
1	K 766.490 Radial†	2685.0	2106.6	2618.8	µg/L	2618.8	ppb	13:20:20
1	Mg 279.077 IEC†	699.2	714.2	5056.8	µg/L	5056.8	ppb	13:20:40
1	Mn 257.610†	176818.2	171680.2	500.33	µg/L	500.33	ppb	13:21:42
1	Mo 202.031†	4360.8	4248.0	480.12	µg/L	480.12	ppb	13:22:02
1	Na 589.592 Radial†	3226.7	3348.4	2618.4	µg/L	2618.4	ppb	13:20:20
1	Ni 231.604†	17176.6	16740.2	499.32	µg/L	499.32	ppb	13:21:42
1	P 214.914†	2284.6	2280.9	2404.5	µg/L	2404.5	ppb	13:22:02
1	Pb 220.353†	2543.9	2370.5	509.41	µg/L	509.41	ppb	13:22:02
1	S 181.975 Axial†	771.9	727.5	2376.7	µg/L	2376.7	ppb	13:22:02
1	Sb 206.836†	778.0	751.0	474.42	µg/L	474.42	ppb	13:22:02
1	Se 196.026†	1885.5	1821.8	2480	µg/L	2480	ppb	13:22:02
1	SiO2†	60004.7	56509.5	10410	µg/L	10410	ppb	13:21:42
1	Si 251.611†	170547.3	165376.4	4862.0	µg/L	4862.0	ppb	13:21:42
1	Sn 189.927†	1246.3	1213.4	494.07	µg/L	494.07	ppb	13:22:02
1	Sr 421.552†	42672.1	43813.6	500.01	µg/L	500.01	ppb	13:20:20
1	Ti 334.940†	274796.3	265545.6	494.54	µg/L	494.54	ppb	13:21:42
1	Tl 190.801†	410.3	415.1	498.24	µg/L	498.24	ppb	13:22:02
1	U 367.007†	2147.9	1773.0	457.08	µg/L	457.08	ppb	13:21:42
1	V 292.402†	72626.5	70238.1	502.92	µg/L	502.92	ppb	13:21:42
1	Zn 213.857†	41829.5	40119.7	508.09	µg/L	508.09	ppb	13:21:42
2	Sc 361.383	1274616.7	1274616.7	101.17	%			13:22:05
2	Sc RADIAL	19819.1	19819.1	90.0	%			13:20:42
2	Y 371.029	741643.5	741643.5	99.531	%			13:22:05
2	Ag 328.068†	37695.6	36589.7	245.76	µg/L	245.76	ppb	13:22:05
2	Al 396.153Radial†	3156.8	3598.9	5768.8	µg/L	5768.8	ppb	13:21:02
2	As 188.979†	254.1	253.7	507.33	µg/L	507.33	ppb	13:22:25
2	B 249.677†	41565.0	40824.6	472.41	µg/L	472.41	ppb	13:22:05
2	Ba 233.527†	35569.6	35240.6	496.68	µg/L	496.68	ppb	13:22:05
2	Be 313.107†	579746.2	579906.6	251.35	µg/L	251.35	ppb	13:22:05
2	Ca 317.933Radial†	7736.4	8514.1	5795.8	µg/L	5795.8	ppb	13:21:02
2	Cd 226.502†	32260.0	31996.2	499.08	µg/L	499.08	ppb	13:22:05
2	Co 228.616†	16974.1	16876.1	496.44	µg/L	496.44	ppb	13:22:05
2	Cr 267.716†	27932.9	27489.9	503.30	µg/L	503.30	ppb	13:22:05
2	Cu 324.752†	80506.6	75713.1	508.60	µg/L	508.60	ppb	13:22:05
2	Fe 238.204 Radial†	1563.2	1708.8	5815.3	µg/L	5815.3	ppb	13:21:02
2	K 766.490 Radial†	2472.6	2095.2	2604.6	µg/L	2604.6	ppb	13:20:42
2	Mg 279.077 IEC†	752.0	831.3	5886.4	µg/L	5886.4	ppb	13:21:02
2	Mn 257.610†	172328.5	170129.1	495.80	µg/L	495.80	ppb	13:22:05
2	Mo 202.031†	4397.1	4355.0	492.25	µg/L	492.25	ppb	13:22:25
2	Na 589.592 Radial†	2955.9	3317.4	2594.1	µg/L	2594.1	ppb	13:20:42
2	Ni 231.604†	16718.1	16567.5	494.16	µg/L	494.16	ppb	13:22:05
2	P 214.914†	2322.5	2355.6	2482.7	µg/L	2482.7	ppb	13:22:25
2	Pb 220.353†	2565.7	2433.5	522.95	µg/L	522.95	ppb	13:22:25

2	S 181.975 Axial†	779.3	747.3	2441.3 µg/L	2441.3 ppb		13:22:25
2	Sb 206.836†	790.4	775.9	490.37 µg/L	490.37 ppb		13:22:25
2	Se 196.026†	1903.2	1870.1	2550 µg/L	2550 ppb		13:22:25
2	SiO2†	58519.2	56020.8	10320 µg/L	10320 ppb		13:22:05
2	Si 251.611†	166197.0	163860.6	4817.3 µg/L	4817.3 ppb		13:22:05
2	Sn 189.927†	1266.9	1254.1	510.67 µg/L	510.67 ppb		13:22:25
2	Sr 421.552†	40237.7	44676.5	509.86 µg/L	509.86 ppb		13:20:42
2	Ti 334.940†	268283.4	263594.1	490.94 µg/L	490.94 ppb		13:22:05
2	Tl 190.801†	416.8	428.2	514.26 µg/L	514.26 ppb		13:22:25
2	U 367.007†	2159.6	1819.6	465.96 µg/L	465.96 ppb		13:22:05
2	V 292.402†	70689.6	69509.3	498.04 µg/L	498.04 ppb		13:22:05
2	Zn 213.857†	40648.1	39634.7	501.84 µg/L	501.84 ppb		13:22:05
3	Sc 361.383	1284547.5	1284547.5	101.96 %			13:22:27
3	Sc RADIAL	22515.9	22515.9	102 %			13:21:04
3	Y 371.029	748634.1	748634.1	100.47 %			13:22:27
3	Ag 328.068†	38594.1	37182.9	249.73 µg/L	249.73 ppb		13:22:27
3	Al 396.153Radial†	3176.0	3197.5	5125.4 µg/L	5125.4 ppb		13:21:24
3	As 188.979†	229.7	227.8	456.10 µg/L	456.10 ppb		13:22:47
3	B 249.677†	42319.8	41247.3	479.99 µg/L	479.99 ppb		13:22:27
3	Ba 233.527†	36278.4	35663.9	502.65 µg/L	502.65 ppb		13:22:27
3	Be 313.107†	592303.2	587792.2	254.76 µg/L	254.76 ppb		13:22:27
3	Ca 317.933Radial†	7852.4	7597.9	5172.1 µg/L	5172.1 ppb		13:21:24
3	Cd 226.502†	33014.6	32489.8	506.87 µg/L	506.87 ppb		13:22:27
3	Co 228.616†	17504.8	17266.9	507.89 µg/L	507.89 ppb		13:22:27
3	Cr 267.716†	28538.4	27870.4	510.24 µg/L	510.24 ppb		13:22:27
3	Cu 324.752†	81479.1	76051.7	510.80 µg/L	510.80 ppb		13:22:27
3	Fe 238.204 Radial†	1583.9	1521.0	5174.3 µg/L	5174.3 ppb		13:21:24
3	K 766.490 Radial†	2775.5	2062.4	2563.8 µg/L	2563.8 ppb		13:21:04
3	Mg 279.077 IEC†	758.0	737.1	5219.4 µg/L	5219.4 ppb		13:21:24
3	Mn 257.610†	176168.9	172578.9	502.95 µg/L	502.95 ppb		13:22:27
3	Mo 202.031†	4025.1	3956.6	447.21 µg/L	447.21 ppb		13:22:47
3	Na 589.592 Radial†	3322.7	3282.7	2567.0 µg/L	2567.0 ppb		13:21:04
3	Ni 231.604†	17046.7	16762.0	499.97 µg/L	499.97 ppb		13:22:27
3	P 214.914†	2119.1	2138.4	2253.5 µg/L	2253.5 ppb		13:22:47
3	Pb 220.353†	2331.1	2183.9	469.30 µg/L	469.30 ppb		13:22:47
3	S 181.975 Axial†	715.1	678.5	2216.2 µg/L	2216.2 ppb		13:22:47
3	Sb 206.836†	729.1	709.8	448.11 µg/L	448.11 ppb		13:22:47
3	Se 196.026†	1762.9	1717.9	2340 µg/L	2340 ppb		13:22:47
3	SiO2†	59751.7	56782.4	10461 µg/L	10461 ppb		13:22:27
3	Si 251.611†	169792.5	166117.1	4884.2 µg/L	4884.2 ppb		13:22:27
3	Sn 189.927†	1156.0	1135.6	462.43 µg/L	462.43 ppb		13:22:47
3	Sr 421.552†	45177.4	44152.9	503.88 µg/L	503.88 ppb		13:21:04
3	Ti 334.940†	273608.8	266767.2	496.81 µg/L	496.81 ppb		13:22:27
3	Tl 190.801†	379.8	388.8	466.33 µg/L	466.33 ppb		13:22:47
3	U 367.007†	2200.7	1843.4	475.81 µg/L	475.81 ppb		13:22:27
3	V 292.402†	72073.7	70326.6	503.17 µg/L	503.17 ppb		13:22:27
3	Zn 213.857†	41618.6	40276.0	510.07 µg/L	510.07 ppb		13:22:27

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1285062.1	102.00	%	0.850				0.83%
Sc RADIAL	21255.6	96.5	%	6.16				6.38%
Y 371.029	748608.3	100.47	%	0.933				0.93%
Ag 328.068†	36914.0	247.94	µg/L	2.014	247.94	ppb	2.014	0.81%
QC value within limits for Ag 328.068 Recovery = 99.18%								
Al 396.153Radial†	3328.8	5335.7	µg/L	375.14	5335.7	ppb	375.14	7.03%
QC value within limits for Al 396.153Radial Recovery = 106.71%								
As 188.979†	243.0	486.23	µg/L	26.784	486.23	ppb	26.784	5.51%
QC value within limits for As 188.979 Recovery = 97.25%								
B 249.677†	41065.8	477.10	µg/L	4.097	477.10	ppb	4.097	0.86%
QC value within limits for B 249.677 Recovery = 95.42%								
Ba 233.527†	35448.1	499.61	µg/L	2.989	499.61	ppb	2.989	0.60%
QC value within limits for Ba 233.527 Recovery = 99.92%								
Be 313.107†	584604.2	253.38	µg/L	1.800	253.38	ppb	1.800	0.71%
QC value within limits for Be 313.107 Recovery = 101.35%								
Ca 317.933Radial†	7833.3	5332.3	µg/L	407.66	5332.3	ppb	407.66	7.65%
QC value within limits for Ca 317.933Radial Recovery = 106.65%								
Cd 226.502†	32301.9	503.91	µg/L	4.222	503.91	ppb	4.222	0.84%
QC value within limits for Cd 226.502 Recovery = 100.78%								

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Co 228.616†            17099.0      502.98 µg/L         5.897      502.98 ppb          5.897   1.17%
   QC value within limits for Co 228.616  Recovery = 100.60%
Cr 267.716†            27740.5      507.87 µg/L         3.966      507.87 ppb          3.966   0.78%
   QC value within limits for Cr 267.716  Recovery = 101.57%
Cu 324.752†            75891.1      509.74 µg/L         1.104      509.74 ppb          1.104   0.22%
   QC value within limits for Cu 324.752  Recovery = 101.95%
Fe 238.204 Radial†      1573.2      5352.4 µg/L        404.43      5352.4 ppb         404.43   7.56%
   QC value within limits for Fe 238.204 Radial  Recovery = 107.05%
K 766.490 Radial†       2088.0      2595.8 µg/L         28.55      2595.8 ppb          28.55   1.10%
   QC value within limits for K 766.490 Radial  Recovery = 103.83%
Mg 279.077 IEC†          760.9      5387.5 µg/L        439.64      5387.5 ppb         439.64   8.16%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.75%
Mn 257.610†           171462.7      499.69 µg/L         3.618      499.69 ppb          3.618   0.72%
   QC value within limits for Mn 257.610  Recovery = 99.94%
Mo 202.031†             4186.6      473.19 µg/L        23.303      473.19 ppb         23.303   4.92%
   QC value within limits for Mo 202.031  Recovery = 94.64%
Na 589.592 Radial†      3316.2      2593.2 µg/L         25.70      2593.2 ppb          25.70   0.99%
   QC value within limits for Na 589.592 Radial  Recovery = 103.73%
Ni 231.604†            16689.9      497.82 µg/L         3.182      497.82 ppb          3.182   0.64%
   QC value within limits for Ni 231.604  Recovery = 99.56%
P 214.914†              2258.3      2380.2 µg/L        116.54      2380.2 ppb         116.54   4.90%
   QC value within limits for P 214.914  Recovery = 95.21%
Pb 220.353†             2329.3      500.55 µg/L        27.900      500.55 ppb         27.900   5.57%
   QC value within limits for Pb 220.353  Recovery = 100.11%
S 181.975 Axial†         717.8      2344.7 µg/L        115.87      2344.7 ppb         115.87   4.94%
   QC value within limits for S 181.975 Axial  Recovery = 93.79%
Sb 206.836†              745.6      470.97 µg/L        21.340      470.97 ppb         21.340   4.53%
   QC value within limits for Sb 206.836  Recovery = 94.19%
Se 196.026†             1803.3        2460 µg/L         106.0        2460 ppb          106.0   4.31%
   QC value within limits for Se 196.026  Recovery = 98.29%
SiO2†                  56437.5       10397 µg/L          71.1       10397 ppb           71.1   0.68%
   QC value within limits for SiO2  Recovery = 97.21%
Si 251.611†           165118.1      4854.5 µg/L         34.10      4854.5 ppb          34.10   0.70%
   QC value within limits for Si 251.611  Recovery = 97.09%
Sn 189.927†             1201.0      489.06 µg/L        24.508      489.06 ppb         24.508   5.01%
   QC value within limits for Sn 189.927  Recovery = 97.81%
Sr 421.552†            44214.3      504.58 µg/L         4.959      504.58 ppb          4.959   0.98%
   QC value within limits for Sr 421.552  Recovery = 100.92%
Ti 334.940†           265302.3      494.10 µg/L         2.963      494.10 ppb          2.963   0.60%
   QC value within limits for Ti 334.940  Recovery = 98.82%
Tl 190.801†              410.7      492.94 µg/L        24.397      492.94 ppb         24.397   4.95%
   QC value within limits for Tl 190.801  Recovery = 98.59%
U 367.007†              1812.0      466.28 µg/L         9.366      466.28 ppb          9.366   2.01%
   QC value within limits for U 367.007  Recovery = 93.26%
V 292.402†             70024.7      501.37 µg/L         2.894      501.37 ppb          2.894   0.58%
   QC value within limits for V 292.402  Recovery = 100.27%
Zn 213.857†            40010.1      506.66 µg/L         4.293      506.66 ppb          4.293   0.85%
   QC value within limits for Zn 213.857  Recovery = 101.33%
All analyte(s) passed QC.
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Sequence No.: 7
Sample ID: ICB
Analyst:
Logged In Analyst (Original) : optima4
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/6/2013 13:22:56
Data Type: Reprocessed on 11/6/2013 14:25:44

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	1277447.1	1277447.1	101.40	%			13:25:41
1	Sc RADIAL	22383.1	22383.1	102	%			13:23:44
1	Y 371.029	754740.8	754740.8	101.29	%			13:25:41
1	Ag 328.068†	460.0	-216.0	-1.4420	µg/L	-1.4420	ppb	13:25:43
1	Al 396.153Radial†	-101.4	-8.6	-13.868	µg/L	-13.868	ppb	13:23:44
1	As 188.979†	-0.3	2.2	4.3700	µg/L	4.3700	ppb	13:26:03
1	B 249.677†	399.0	134.1	1.6141	µg/L	1.6141	ppb	13:26:03
1	Ba 233.527†	-82.7	1.0	0.0136	µg/L	0.0136	ppb	13:26:03
1	Be 313.107†	-7313.5	-343.7	-0.1490	µg/L	-0.1490	ppb	13:25:43
1	Ca 317.933Radial†	80.9	-2.7	-1.8052	µg/L	-1.8052	ppb	13:24:04
1	Cd 226.502†	-100.9	10.0	0.1563	µg/L	0.1563	ppb	13:26:03
1	Co 228.616†	-86.5	13.1	0.3871	µg/L	0.3871	ppb	13:26:03
1	Cr 267.716†	143.2	21.5	0.3959	µg/L	0.3959	ppb	13:26:03
1	Cu 324.752†	3856.7	-58.2	-0.3909	µg/L	-0.3909	ppb	13:25:43
1	Fe 238.204 Radial†	29.0	0.4	1.3275	µg/L	1.3275	ppb	13:24:04
1	K 766.490 Radial†	670.0	6.9	8.5442	µg/L	8.5442	ppb	13:23:44
1	Mg 279.077 IEC†	4.7	0.3	2.2806	µg/L	2.2806	ppb	13:24:04
1	Mn 257.610†	247.4	38.7	0.1128	µg/L	0.1128	ppb	13:26:03
1	Mo 202.031†	-0.4	8.5	0.9581	µg/L	0.9581	ppb	13:26:03
1	Na 589.592 Radial†	-34.0	-0.6	-0.4572	µg/L	-0.4572	ppb	13:23:44
1	Ni 231.604†	-40.3	3.1	0.0934	µg/L	0.0934	ppb	13:26:03
1	P 214.914†	-74.0	-12.9	-13.722	µg/L	-13.722	ppb	13:26:03
1	Pb 220.353†	96.6	-7.2	-1.5336	µg/L	-1.5336	ppb	13:26:03
1	S 181.975 Axial†	16.3	-6.9	-22.509	µg/L	-22.509	ppb	13:26:03
1	Sb 206.836†	1.4	-3.9	-2.4651	µg/L	-2.4651	ppb	13:26:03
1	Se 196.026†	17.8	6.5	8.80	µg/L	8.80	ppb	13:26:03
1	SiO2†	1863.1	16.2	2.9828	µg/L	2.9828	ppb	13:26:03
1	Si 251.611†	484.1	64.3	1.8813	µg/L	1.8813	ppb	13:26:03
1	Sn 189.927†	6.7	8.4	3.4281	µg/L	3.4281	ppb	13:26:03
1	Sr 421.552†	45.0	10.6	0.1214	µg/L	0.1214	ppb	13:23:44
1	Ti 334.940†	1436.4	-168.1	-0.3125	µg/L	-0.3125	ppb	13:25:43
1	Tl 190.801†	-15.1	1.4	1.6512	µg/L	1.6512	ppb	13:26:03
1	U 367.007†	312.6	-6.8	-1.8640	µg/L	-1.8640	ppb	13:25:43
1	V 292.402†	352.2	-14.9	-0.0933	µg/L	-0.0933	ppb	13:25:43
1	Zn 213.857†	557.4	6.8	0.0855	µg/L	0.0855	ppb	13:26:03
2	Sc 361.383	1260008.9	1260008.9	100.01	%			13:26:05
2	Sc RADIAL	22296.7	22296.7	101	%			13:24:24
2	Y 371.029	743680.1	743680.1	99.805	%			13:26:05
2	Ag 328.068†	538.7	-131.0	-0.8849	µg/L	-0.8849	ppb	13:26:07
2	Al 396.153Radial†	-98.9	-6.5	-10.426	µg/L	-10.426	ppb	13:24:24
2	As 188.979†	-5.0	-2.5	-4.8971	µg/L	-4.8971	ppb	13:26:27
2	B 249.677†	412.2	152.7	1.8698	µg/L	1.8698	ppb	13:26:27
2	Ba 233.527†	-62.7	19.9	0.2784	µg/L	0.2784	ppb	13:26:27
2	Be 313.107†	-7275.5	-405.6	-0.1758	µg/L	-0.1758	ppb	13:26:07
2	Ca 317.933Radial†	85.2	1.9	1.2743	µg/L	1.2743	ppb	13:24:44
2	Cd 226.502†	-118.7	-9.2	-0.1439	µg/L	-0.1439	ppb	13:26:27
2	Co 228.616†	-80.5	17.9	0.5292	µg/L	0.5292	ppb	13:26:27
2	Cr 267.716†	145.5	25.8	0.4666	µg/L	0.4666	ppb	13:26:27
2	Cu 324.752†	3926.7	64.4	0.4358	µg/L	0.4358	ppb	13:26:07
2	Fe 238.204 Radial†	28.2	-0.3	-1.0083	µg/L	-1.0083	ppb	13:24:44
2	K 766.490 Radial†	625.4	-34.6	-42.798	µg/L	-42.798	ppb	13:24:24
2	Mg 279.077 IEC†	7.5	3.1	21.849	µg/L	21.849	ppb	13:24:44
2	Mn 257.610†	239.1	33.8	0.0976	µg/L	0.0976	ppb	13:26:27
2	Mo 202.031†	-1.5	7.3	0.8292	µg/L	0.8292	ppb	13:26:27
2	Na 589.592 Radial†	-38.3	-5.0	-3.8719	µg/L	-3.8719	ppb	13:24:24
2	Ni 231.604†	-45.9	-3.0	-0.0907	µg/L	-0.0907	ppb	13:26:27
2	P 214.914†	-66.6	-6.5	-6.9298	µg/L	-6.9298	ppb	13:26:27
2	Pb 220.353†	106.9	4.4	0.9394	µg/L	0.9394	ppb	13:26:27

2	S 181.975 Axial†	28.9	6.0	19.513	µg/L	19.513	ppb	13:26:27
2	Sb 206.836†	4.6	-0.8	-0.4729	µg/L	-0.4729	ppb	13:26:27
2	Se 196.026†	13.4	2.3	3.11	µg/L	3.11	ppb	13:26:27
2	SiO2†	1873.6	52.1	9.5989	µg/L	9.5989	ppb	13:26:27
2	Si 251.611†	444.2	31.0	0.9006	µg/L	0.9006	ppb	13:26:27
2	Sn 189.927†	9.0	10.8	4.4006	µg/L	4.4006	ppb	13:26:27
2	Sr 421.552†	43.9	9.7	0.1106	µg/L	0.1106	ppb	13:24:24
2	Ti 334.940†	1494.9	-90.0	-0.1727	µg/L	-0.1727	ppb	13:26:07
2	Tl 190.801†	-12.6	3.7	4.4534	µg/L	4.4534	ppb	13:26:27
2	U 367.007†	348.8	33.8	9.2642	µg/L	9.2642	ppb	13:26:07
2	V 292.402†	299.3	-63.0	-0.4277	µg/L	-0.4277	ppb	13:26:07
2	Zn 213.857†	562.5	19.5	0.2489	µg/L	0.2489	ppb	13:26:27
3	Sc 361.383	1256392.5	1256392.5	99.724	%			13:26:29
3	Sc RADIAL	22117.3	22117.3	100	%			13:25:04
3	Y 371.029	741596.2	741596.2	99.525	%			13:26:29
3	Ag 328.068†	643.7	-24.2	-0.1490	µg/L	-0.1490	ppb	13:26:32
3	Al 396.153Radial†	-80.6	10.9	17.501	µg/L	17.501	ppb	13:25:04
3	As 188.979†	-6.0	-3.4	-6.7873	µg/L	-6.7873	ppb	13:26:52
3	B 249.677†	380.1	121.7	1.4687	µg/L	1.4687	ppb	13:26:52
3	Ba 233.527†	-86.7	-4.3	-0.0610	µg/L	-0.0610	ppb	13:26:52
3	Be 313.107†	-7437.8	-589.3	-0.2554	µg/L	-0.2554	ppb	13:26:32
3	Ca 317.933Radial†	86.3	3.7	2.5098	µg/L	2.5098	ppb	13:25:24
3	Cd 226.502†	-94.4	14.8	0.2314	µg/L	0.2314	ppb	13:26:52
3	Co 228.616†	-79.8	18.4	0.5418	µg/L	0.5418	ppb	13:26:52
3	Cr 267.716†	161.8	42.5	0.7882	µg/L	0.7882	ppb	13:26:52
3	Cu 324.752†	4047.4	196.8	1.3121	µg/L	1.3121	ppb	13:26:32
3	Fe 238.204 Radial†	28.2	-0.1	-0.3403	µg/L	-0.3403	ppb	13:25:24
3	K 766.490 Radial†	666.2	11.0	13.669	µg/L	13.669	ppb	13:25:04
3	Mg 279.077 IEC†	8.1	3.8	26.685	µg/L	26.685	ppb	13:25:24
3	Mn 257.610†	247.7	43.2	0.1248	µg/L	0.1248	ppb	13:26:52
3	Mo 202.031†	-7.8	1.0	0.1108	µg/L	0.1108	ppb	13:26:52
3	Na 589.592 Radial†	-57.5	-24.4	-19.043	µg/L	-19.043	ppb	13:25:04
3	Ni 231.604†	-42.3	0.4	0.0122	µg/L	0.0122	ppb	13:26:52
3	P 214.914†	-78.5	-18.7	-19.812	µg/L	-19.812	ppb	13:26:52
3	Pb 220.353†	97.9	-4.3	-0.9021	µg/L	-0.9021	ppb	13:26:52
3	S 181.975 Axial†	26.9	4.0	13.159	µg/L	13.159	ppb	13:26:52
3	Sb 206.836†	-1.9	-7.3	-4.6001	µg/L	-4.6001	ppb	13:26:52
3	Se 196.026†	17.5	6.5	8.80	µg/L	8.80	ppb	13:26:52
3	SiO2†	1866.6	50.5	9.3047	µg/L	9.3047	ppb	13:26:52
3	Si 251.611†	467.9	56.1	1.6500	µg/L	1.6500	ppb	13:26:52
3	Sn 189.927†	-0.4	1.4	0.5708	µg/L	0.5708	ppb	13:26:52
3	Sr 421.552†	45.5	11.6	0.1326	µg/L	0.1326	ppb	13:25:04
3	Ti 334.940†	1476.5	-104.2	-0.1869	µg/L	-0.1869	ppb	13:26:32
3	Tl 190.801†	-16.5	-0.3	-0.4074	µg/L	-0.4074	ppb	13:26:52
3	U 367.007†	260.6	-53.7	-14.726	µg/L	-14.726	ppb	13:26:32
3	V 292.402†	352.9	-8.4	-0.0646	µg/L	-0.0646	ppb	13:26:32
3	Zn 213.857†	538.6	-2.8	-0.0382	µg/L	-0.0382	ppb	13:26:52

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1264616.2	100.38	%	0.894				0.89%
Sc RADIAL	22265.7	101	%	0.6				0.61%
Y 371.029	746672.4	100.21	%	0.948				0.95%
Ag 328.068†	-123.8	-0.8253	µg/L	0.64857	-0.8253	ppb	0.64857	78.59%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-1.4	-2.2642	µg/L	17.20368	-2.2642	ppb	17.20368	759.81%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.2	-2.4381	µg/L	5.97129	-2.4381	ppb	5.97129	244.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	136.2	1.6509	µg/L	0.20304	1.6509	ppb	0.20304	12.30%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.5	0.0770	µg/L	0.17836	0.0770	ppb	0.17836	231.70%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-446.2	-0.1934	µg/L	0.05535	-0.1934	ppb	0.05535	28.62%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	1.0	0.6596	µg/L	2.22219	0.6596	ppb	2.22219	336.87%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	5.2	0.0813	µg/L	0.19856	0.0813	ppb	0.19856	244.33%
QC value within limits for Cd 226.502 Recovery = Not calculated								

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Co 228.616†                16.5      0.4860 µg/L       0.08593      0.4860 ppb        0.08593  17.68%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                30.0      0.5502 µg/L       0.20912      0.5502 ppb        0.20912  38.00%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                67.6      0.4523 µg/L       0.85160      0.4523 ppb        0.85160 188.27%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.0     -0.0070 µg/L       1.20302     -0.0070 ppb        1.20302 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          -5.5     -6.8618 µg/L      31.22715     -6.8618 ppb       31.22715 455.09%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             2.4      16.938 µg/L       12.9223      16.938 ppb        12.9223  76.29%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                38.6      0.1117 µg/L       0.01361      0.1117 ppb        0.01361  12.18%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 5.6      0.6327 µg/L       0.45655      0.6327 ppb        0.45655  72.15%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -10.0     -7.7909 µg/L       9.89345     -7.7909 ppb        9.89345 126.99%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 0.2      0.0049 µg/L       0.09227      0.0049 ppb        0.09227 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -12.7     -13.488 µg/L        6.4443     -13.488 ppb         6.4443  47.78%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -2.3     -0.4987 µg/L       1.28491     -0.4987 ppb        1.28491 257.63%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            1.0      3.3873 µg/L      22.65118      3.3873 ppb       22.65118 668.71%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -4.0     -2.5127 µg/L       2.06405     -2.5127 ppb        2.06405  82.14%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 5.1        6.90 µg/L         3.284        6.90 ppb          3.284  47.58%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      39.6      7.2955 µg/L       3.73774      7.2955 ppb        3.73774  51.23%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                50.5      1.4773 µg/L       0.51266      1.4773 ppb        0.51266  34.70%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 6.9      2.7998 µg/L       1.99072      2.7998 ppb        1.99072  71.10%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                10.6      0.1215 µg/L       0.01103      0.1215 ppb        0.01103   9.08%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -120.8     -0.2240 µg/L       0.07693     -0.2240 ppb        0.07693  34.34%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.6      1.8991 µg/L       2.43986      1.8991 ppb        2.43986 128.48%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 -8.9     -2.4418 µg/L      12.00539     -2.4418 ppb       12.00539 491.65%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -28.8     -0.1952 µg/L       0.20187     -0.1952 ppb        0.20187 103.43%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                 7.8      0.0987 µg/L       0.14398      0.0987 ppb        0.14398 145.81%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 8 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/6/2013 13:27:00**
Analyst: **Data Type: Reprocessed on 11/6/2013 14:25:44**
Logged In Analyst (Original) : optima4
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	1257293.8	1257293.8	99.796	%			13:29:46
1	Sc RADIAL	22191.8	22191.8	101	%			13:27:48
1	Y 371.029	740553.2	740553.2	99.385	%			13:29:46
1	Ag 328.068†	1351.9	684.9	4.5496	µg/L	4.5496	ppb	13:29:48
1	Al 396.153Radial†	39.7	130.6	209.37	µg/L	209.37	ppb	13:27:48
1	As 188.979†	9.1	11.6	23.015	µg/L	23.015	ppb	13:30:08
1	B 249.677†	4201.6	3950.7	47.298	µg/L	47.298	ppb	13:29:48
1	Ba 233.527†	285.5	368.7	5.1936	µg/L	5.1936	ppb	13:30:08
1	Be 313.107†	3961.8	10839.0	4.6979	µg/L	4.6979	ppb	13:29:48
1	Ca 317.933Radial†	400.0	314.7	214.16	µg/L	214.16	ppb	13:28:08
1	Cd 226.502†	248.2	358.2	5.5807	µg/L	5.5807	ppb	13:30:08
1	Co 228.616†	79.5	178.1	5.2429	µg/L	5.2429	ppb	13:30:08
1	Cr 267.716†	379.2	260.3	4.7352	µg/L	4.7352	ppb	13:30:08
1	Cu 324.752†	5548.5	1698.0	11.417	µg/L	11.417	ppb	13:29:48
1	Fe 238.204 Radial†	61.1	32.5	110.79	µg/L	110.79	ppb	13:28:08
1	K 766.490 Radial†	796.3	137.9	170.82	µg/L	170.82	ppb	13:27:48
1	Mg 279.077 IEC†	51.2	46.5	329.56	µg/L	329.56	ppb	13:28:08
1	Mn 257.610†	3736.3	3538.7	10.305	µg/L	10.305	ppb	13:30:08
1	Mo 202.031†	73.4	82.4	9.3214	µg/L	9.3214	ppb	13:30:08
1	Na 589.592 Radial†	368.0	398.1	311.29	µg/L	311.29	ppb	13:27:48
1	Ni 231.604†	111.8	154.9	4.6200	µg/L	4.6200	ppb	13:30:08
1	P 214.914†	86.3	146.6	155.15	µg/L	155.15	ppb	13:30:08
1	Pb 220.353†	139.2	37.1	7.9378	µg/L	7.9378	ppb	13:30:08
1	S 181.975 Axial†	65.0	42.3	138.11	µg/L	138.11	ppb	13:30:08
1	Sb 206.836†	6.3	0.9	0.6352	µg/L	0.6352	ppb	13:30:08
1	Se 196.026†	42.6	31.6	43.0	µg/L	43.0	ppb	13:30:08
1	SiO2†	3036.7	1221.7	224.94	µg/L	224.94	ppb	13:29:48
1	Si 251.611†	3896.6	3491.5	102.66	µg/L	102.66	ppb	13:29:48
1	Sn 189.927†	26.9	28.8	11.720	µg/L	11.720	ppb	13:30:08
1	Sr 421.552†	500.5	463.1	5.2836	µg/L	5.2836	ppb	13:27:48
1	Ti 334.940†	4080.8	2504.4	4.6497	µg/L	4.6497	ppb	13:29:48
1	Tl 190.801†	2.2	18.5	22.339	µg/L	22.339	ppb	13:30:08
1	U 367.007†	484.6	170.6	46.143	µg/L	46.143	ppb	13:29:48
1	V 292.402†	969.2	608.8	4.4576	µg/L	4.4576	ppb	13:29:48
1	Zn 213.857†	1341.3	801.2	10.168	µg/L	10.168	ppb	13:30:08
2	Sc 361.383	1256533.5	1256533.5	99.735	%			13:30:10
2	Sc RADIAL	21971.3	21971.3	99.8	%			13:28:28
2	Y 371.029	739508.2	739508.2	99.245	%			13:30:10
2	Ag 328.068†	1418.0	752.0	5.0020	µg/L	5.0020	ppb	13:30:12
2	Al 396.153Radial†	31.8	123.0	197.27	µg/L	197.27	ppb	13:28:28
2	As 188.979†	9.7	12.3	24.299	µg/L	24.299	ppb	13:30:32
2	B 249.677†	4359.9	4112.0	49.278	µg/L	49.278	ppb	13:30:12
2	Ba 233.527†	271.2	354.5	4.9957	µg/L	4.9957	ppb	13:30:32
2	Be 313.107†	3860.2	10739.5	4.6548	µg/L	4.6548	ppb	13:30:12
2	Ca 317.933Radial†	396.5	315.2	214.51	µg/L	214.51	ppb	13:28:48
2	Cd 226.502†	231.1	341.2	5.3171	µg/L	5.3171	ppb	13:30:32
2	Co 228.616†	96.5	195.1	5.7450	µg/L	5.7450	ppb	13:30:32
2	Cr 267.716†	374.3	255.6	4.6512	µg/L	4.6512	ppb	13:30:32
2	Cu 324.752†	5452.0	1604.6	10.790	µg/L	10.790	ppb	13:30:12
2	Fe 238.204 Radial†	58.5	30.5	103.98	µg/L	103.98	ppb	13:28:48
2	K 766.490 Radial†	783.3	132.8	164.55	µg/L	164.55	ppb	13:28:28
2	Mg 279.077 IEC†	49.4	45.2	320.04	µg/L	320.04	ppb	13:28:48
2	Mn 257.610†	3738.9	3543.6	10.319	µg/L	10.319	ppb	13:30:32
2	Mo 202.031†	76.0	85.0	9.6152	µg/L	9.6152	ppb	13:30:32
2	Na 589.592 Radial†	349.2	382.9	299.43	µg/L	299.43	ppb	13:28:28
2	Ni 231.604†	138.2	181.4	5.4112	µg/L	5.4112	ppb	13:30:32
2	P 214.914†	62.4	122.7	129.81	µg/L	129.81	ppb	13:30:32
2	Pb 220.353†	135.4	33.3	7.1440	µg/L	7.1440	ppb	13:30:32

2	S 181.975 Axial†	57.8	35.1	114.61 µg/L	114.61 ppb		13:30:32
2	Sb 206.836†	15.6	10.3	6.5587 µg/L	6.5587 ppb		13:30:32
2	Se 196.026†	31.1	20.1	27.4 µg/L	27.4 ppb		13:30:32
2	SiO2†	3050.6	1237.4	227.83 µg/L	227.83 ppb		13:30:12
2	Si 251.611†	3872.8	3470.0	102.02 µg/L	102.02 ppb		13:30:12
2	Sn 189.927†	23.2	25.1	10.226 µg/L	10.226 ppb		13:30:32
2	Sr 421.552†	482.1	449.6	5.1300 µg/L	5.1300 ppb		13:28:28
2	Ti 334.940†	4101.4	2527.5	4.6941 µg/L	4.6941 ppb		13:30:12
2	Tl 190.801†	5.4	21.7	26.240 µg/L	26.240 ppb		13:30:32
2	U 367.007†	476.2	162.4	43.931 µg/L	43.931 ppb		13:30:12
2	V 292.402†	1054.2	694.7	5.0637 µg/L	5.0637 ppb		13:30:12
2	Zn 213.857†	1335.3	795.9	10.098 µg/L	10.098 ppb		13:30:32
3	Sc 361.383	1268748.0	1268748.0	100.70 %			13:30:34
3	Sc RADIAL	22082.7	22082.7	100 %			13:29:08
3	Y 371.029	746794.5	746794.5	100.22 %			13:30:34
3	Ag 328.068†	1422.6	743.0	4.9352 µg/L	4.9352 ppb		13:30:36
3	Al 396.153Radial†	36.9	127.9	205.13 µg/L	205.13 ppb		13:29:08
3	As 188.979†	14.1	16.6	32.738 µg/L	32.738 ppb		13:30:56
3	B 249.677†	4406.2	4115.9	49.256 µg/L	49.256 ppb		13:30:36
3	Ba 233.527†	284.9	365.5	5.1489 µg/L	5.1489 ppb		13:30:56
3	Be 313.107†	3842.9	10685.1	4.6312 µg/L	4.6312 ppb		13:30:36
3	Ca 317.933Radial†	393.3	310.0	210.98 µg/L	210.98 ppb		13:29:28
3	Cd 226.502†	225.2	333.1	5.1871 µg/L	5.1871 ppb		13:30:56
3	Co 228.616†	82.9	180.7	5.3232 µg/L	5.3232 ppb		13:30:56
3	Cr 267.716†	389.5	267.0	4.8575 µg/L	4.8575 ppb		13:30:56
3	Cu 324.752†	5427.5	1527.7	10.279 µg/L	10.279 ppb		13:30:36
3	Fe 238.204 Radial†	64.1	35.8	122.08 µg/L	122.08 ppb		13:29:28
3	K 766.490 Radial†	787.0	132.5	164.17 µg/L	164.17 ppb		13:29:08
3	Mg 279.077 IEC†	47.1	42.7	302.29 µg/L	302.29 ppb		13:29:28
3	Mn 257.610†	3702.3	3471.2	10.109 µg/L	10.109 ppb		13:30:56
3	Mo 202.031†	80.7	89.0	10.061 µg/L	10.061 ppb		13:30:56
3	Na 589.592 Radial†	338.2	370.2	289.47 µg/L	289.47 ppb		13:29:08
3	Ni 231.604†	98.4	140.5	4.1903 µg/L	4.1903 ppb		13:30:56
3	P 214.914†	86.1	145.6	154.08 µg/L	154.08 ppb		13:30:56
3	Pb 220.353†	153.0	49.5	10.600 µg/L	10.600 ppb		13:30:56
3	S 181.975 Axial†	53.0	29.7	96.873 µg/L	96.873 ppb		13:30:56
3	Sb 206.836†	11.9	6.5	4.1701 µg/L	4.1701 ppb		13:30:56
3	Se 196.026†	41.0	29.6	40.3 µg/L	40.3 ppb		13:30:56
3	SiO2†	3087.1	1244.2	229.08 µg/L	229.08 ppb		13:30:36
3	Si 251.611†	3692.7	3253.8	95.653 µg/L	95.653 ppb		13:30:36
3	Sn 189.927†	28.5	30.2	12.293 µg/L	12.293 ppb		13:30:56
3	Sr 421.552†	487.0	452.0	5.1569 µg/L	5.1569 ppb		13:29:08
3	Ti 334.940†	4063.0	2449.8	4.5460 µg/L	4.5460 ppb		13:30:36
3	Tl 190.801†	2.9	19.2	23.193 µg/L	23.193 ppb		13:30:56
3	U 367.007†	502.7	184.2	49.815 µg/L	49.815 ppb		13:30:36
3	V 292.402†	1002.0	632.7	4.6393 µg/L	4.6393 ppb		13:30:36
3	Zn 213.857†	1334.6	782.4	9.9314 µg/L	9.9314 ppb		13:30:56

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1260858.5	100.08	%	0.543				0.54%
Sc RADIAL	22081.9	100	%	0.5				0.50%
Y 371.029	742285.3	99.617	%	0.5287				0.53%
Ag 328.068†	726.6	4.8289	µg/L	0.24422	4.8289	ppb	0.24422	5.06%
QC value within limits for Ag 328.068 Recovery = 96.58%								
Al 396.153Radial†	127.2	203.92	µg/L	6.135	203.92	ppb	6.135	3.01%
QC value within limits for Al 396.153Radial Recovery = 101.96%								
As 188.979†	13.5	26.684	µg/L	5.2826	26.684	ppb	5.2826	19.80%
QC value within limits for As 188.979 Recovery = 88.95%								
B 249.677†	4059.5	48.611	µg/L	1.1369	48.611	ppb	1.1369	2.34%
QC value within limits for B 249.677 Recovery = 97.22%								
Ba 233.527†	362.9	5.1127	µg/L	0.10376	5.1127	ppb	0.10376	2.03%
QC value within limits for Ba 233.527 Recovery = 102.25%								
Be 313.107†	10754.6	4.6613	µg/L	0.03383	4.6613	ppb	0.03383	0.73%
QC value within limits for Be 313.107 Recovery = 93.23%								
Ca 317.933Radial†	313.3	213.22	µg/L	1.943	213.22	ppb	1.943	0.91%
QC value within limits for Ca 317.933Radial Recovery = 106.61%								
Cd 226.502†	344.2	5.3616	µg/L	0.20059	5.3616	ppb	0.20059	3.74%
QC value within limits for Cd 226.502 Recovery = 107.23%								

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Co 228.616†              184.6      5.4370 µg/L       0.26973      5.4370 ppb        0.26973   4.96%
   QC value within limits for Co 228.616  Recovery = 108.74%
Cr 267.716†              261.0      4.7479 µg/L       0.10373      4.7479 ppb        0.10373   2.18%
   QC value within limits for Cr 267.716  Recovery = 94.96%
Cu 324.752†             1610.1      10.829 µg/L        0.5702      10.829 ppb         0.5702   5.27%
   QC value within limits for Cu 324.752  Recovery = 108.29%
Fe 238.204 Radial†        33.0      112.28 µg/L         9.142      112.28 ppb          9.142   8.14%
   QC value within limits for Fe 238.204 Radial  Recovery = 112.28%
K 766.490 Radial†        134.4      166.51 µg/L         3.735      166.51 ppb          3.735   2.24%
   QC value within limits for K 766.490 Radial  Recovery = 111.01%
Mg 279.077 IEC†           44.8      317.30 µg/L        13.844      317.30 ppb         13.844   4.36%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.77%
Mn 257.610†             3517.8      10.244 µg/L        0.1173      10.244 ppb         0.1173   1.14%
   QC value within limits for Mn 257.610  Recovery = 102.44%
Mo 202.031†               85.5      9.6659 µg/L       0.37249      9.6659 ppb        0.37249   3.85%
   QC value within limits for Mo 202.031  Recovery = 96.66%
Na 589.592 Radial†       383.7      300.06 µg/L        10.919      300.06 ppb         10.919   3.64%
   QC value within limits for Na 589.592 Radial  Recovery = 100.02%
Ni 231.604†              158.9      4.7405 µg/L       0.61930      4.7405 ppb        0.61930  13.06%
   QC value within limits for Ni 231.604  Recovery = 94.81%
P 214.914†               138.3      146.35 µg/L        14.331      146.35 ppb         14.331   9.79%
   QC value within limits for P 214.914  Recovery = 97.56%
Pb 220.353†               40.0      8.5607 µg/L       1.81044      8.5607 ppb        1.81044  21.15%
   QC value within limits for Pb 220.353  Recovery = 85.61%
S 181.975 Axial†          35.7      116.53 µg/L        20.685      116.53 ppb         20.685  17.75%
   QC value within limits for S 181.975 Axial  Recovery = 116.53%
Sb 206.836†                5.9      3.7880 µg/L       2.98020      3.7880 ppb        2.98020  78.67%
   QC value less than the lower limit for Sb 206.836  Recovery = 37.88%
Se 196.026†               27.1        36.9 µg/L          8.35        36.9 ppb           8.35  22.60%
   QC value within limits for Se 196.026  Recovery = 123.10%
SiO2†                   1234.4      227.29 µg/L         2.126      227.29 ppb          2.126   0.94%
   QC value within limits for SiO2  Recovery = 106.71%
Si 251.611†             3405.1      100.11 µg/L         3.874      100.11 ppb          3.874   3.87%
   QC value within limits for Si 251.611  Recovery = 100.11%
Sn 189.927†               28.0      11.413 µg/L        1.0668      11.413 ppb         1.0668   9.35%
   QC value within limits for Sn 189.927  Recovery = 114.13%
Sr 421.552†              454.9      5.1901 µg/L       0.08202      5.1901 ppb        0.08202   1.58%
   QC value within limits for Sr 421.552  Recovery = 103.80%
Ti 334.940†             2493.9      4.6300 µg/L       0.07600      4.6300 ppb        0.07600   1.64%
   QC value within limits for Ti 334.940  Recovery = 92.60%
Tl 190.801†               19.8      23.924 µg/L        2.0506      23.924 ppb         2.0506   8.57%
   QC value within limits for Tl 190.801  Recovery = 119.62%
U 367.007†               172.4      46.630 µg/L        2.9720      46.630 ppb         2.9720   6.37%
   QC value within limits for U 367.007  Recovery = 93.26%
V 292.402†               645.4      4.7202 µg/L       0.31107      4.7202 ppb        0.31107   6.59%
   QC value within limits for V 292.402  Recovery = 94.40%
Zn 213.857†              793.1      10.066 µg/L        0.1216      10.066 ppb         0.1216   1.21%
   QC value within limits for Zn 213.857  Recovery = 100.66%
QC Failed.  Continue with analysis.
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Sequence No.: 9 **Autosampler Location: 103**
Sample ID: ICSA **Date Collected: 11/6/2013 13:31:05**
Analyst: **Data Type: Reprocessed on 11/6/2013 14:25:45**
Logged In Analyst (Original) : optima4
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	1165716.7	1165716.7	92.527	%			13:32:03
1	Sc RADIAL	21025.7	21025.7	95.5	%			13:31:38
1	Y 371.029	670768.0	670768.0	90.019	%			13:32:03
1	Ag 328.068†	2854.7	2415.6	1.0953	µg/L	1.0953	ppb	13:32:03
1	Al 396.153Radial†	287672.2	301395.3	483530	µg/L	483530	ppb	13:31:36
1	As 188.979†	-24.7	-24.2	-15.136	µg/L	-15.136	ppb	13:32:24
1	B 249.677†	55085.7	59275.3	-0.2879	µg/L	-0.2879	ppb	13:32:03
1	Ba 233.527†	166.1	262.1	1.3845	µg/L	1.3845	ppb	13:32:24
1	Be 313.107†	-7936.3	-1708.2	-0.7404	µg/L	-0.7404	ppb	13:32:03
1	Ca 317.933Radial†	672174.5	703944.6	479190	µg/L	479190	ppb	13:31:36
1	Cd 226.502†	1384.3	1605.6	0.1723	µg/L	0.1723	ppb	13:32:24
1	Co 228.616†	-47.3	47.2	-0.2318	µg/L	-0.2318	ppb	13:32:24
1	Cr 267.716†	129.7	20.5	1.7491	µg/L	1.7491	ppb	13:32:24
1	Cu 324.752†	-699.8	-4618.2	-1.3709	µg/L	-1.3709	ppb	13:32:24
1	Fe 238.204 Radial†	53275.5	55771.9	190300	µg/L	190300	ppb	13:31:38
1	K 766.490 Radial†	653.1	31.8	20.532	µg/L	20.532	ppb	13:31:38
1	Mg 279.077 IEC†	65851.2	68967.4	488290	µg/L	488290	ppb	13:31:38
1	Mn 257.610†	3724.8	3820.4	-2.7651	µg/L	-2.7651	ppb	13:32:03
1	Mo 202.031†	-187.6	-193.9	-1.4391	µg/L	-1.4391	ppb	13:32:24
1	Na 589.592 Radial†	-48.0	-17.4	-15.096	µg/L	-15.096	ppb	13:31:38
1	Ni 231.604†	-2.0	40.7	0.2106	µg/L	0.2106	ppb	13:32:24
1	P 214.914†	24.0	86.0	-58.751	µg/L	-58.751	ppb	13:32:24
1	Pb 220.353†	20.5	-80.3	-2.0090	µg/L	-2.0090	ppb	13:32:24
1	S 181.975 Axial†	87.1	71.2	72.914	µg/L	72.914	ppb	13:32:24
1	Sb 206.836†	5.1	0.2	5.6395	µg/L	5.6395	ppb	13:32:24
1	Se 196.026†	-33.9	-47.8	1.24	µg/L	1.24	ppb	13:32:24
1	SiO2†	1710.4	27.3	5.0298	µg/L	5.0298	ppb	13:32:24
1	Si 251.611†	719.3	364.2	32.886	µg/L	32.886	ppb	13:32:24
1	Sn 189.927†	-104.1	-110.7	-1.3142	µg/L	-1.3142	ppb	13:32:24
1	Sr 421.552†	239.2	216.9	-1.2585	µg/L	-1.2585	ppb	13:31:38
1	Ti 334.940†	-8693.1	-10980.0	1.7706	µg/L	1.7706	ppb	13:32:03
1	Tl 190.801†	-16.6	-1.7	-6.5409	µg/L	-6.5409	ppb	13:32:24
1	U 367.007†	3851.2	3847.2	-13.005	µg/L	-13.005	ppb	13:32:03
1	V 292.402†	-3502.3	-4147.5	0.1843	µg/L	0.1843	ppb	13:32:24
1	Zn 213.857†	2540.7	2203.0	-0.0497	µg/L	-0.0497	ppb	13:32:24
2	Sc 361.383	1162067.3	1162067.3	92.237	%			13:32:26
2	Sc RADIAL	21478.2	21478.2	97.5	%			13:31:42
2	Y 371.029	668795.2	668795.2	89.755	%			13:32:26
2	Ag 328.068†	2542.7	2087.0	-0.6844	µg/L	-0.6844	ppb	13:32:26
2	Al 396.153Radial†	284979.0	292286.3	468920	µg/L	468920	ppb	13:31:40
2	As 188.979†	-16.1	-15.0	3.1551	µg/L	3.1551	ppb	13:32:46
2	B 249.677†	54906.8	59268.3	-3.0683	µg/L	-3.0683	ppb	13:32:26
2	Ba 233.527†	136.4	230.5	0.9309	µg/L	0.9309	ppb	13:32:46
2	Be 313.107†	-7949.6	-1749.5	-0.7583	µg/L	-0.7583	ppb	13:32:26
2	Ca 317.933Radial†	662792.2	679492.9	462540	µg/L	462540	ppb	13:31:40
2	Cd 226.502†	1372.7	1597.7	-0.0481	µg/L	-0.0481	ppb	13:32:46
2	Co 228.616†	-50.5	43.7	-0.3432	µg/L	-0.3432	ppb	13:32:46
2	Cr 267.716†	137.5	29.4	1.9117	µg/L	1.9117	ppb	13:32:46
2	Cu 324.752†	-689.0	-4608.8	-1.1905	µg/L	-1.1905	ppb	13:32:46
2	Fe 238.204 Radial†	54631.9	55987.1	191040	µg/L	191040	ppb	13:31:42
2	K 766.490 Radial†	528.8	-110.2	-155.34	µg/L	-155.34	ppb	13:31:42
2	Mg 279.077 IEC†	67548.6	69254.7	490330	µg/L	490330	ppb	13:31:42
2	Mn 257.610†	3675.7	3779.8	-2.9427	µg/L	-2.9427	ppb	13:32:26
2	Mo 202.031†	-184.3	-191.0	-1.0248	µg/L	-1.0248	ppb	13:32:46
2	Na 589.592 Radial†	44.7	78.7	60.068	µg/L	60.068	ppb	13:31:42
2	Ni 231.604†	-37.2	2.5	-0.9327	µg/L	-0.9327	ppb	13:32:46
2	P 214.914†	15.1	76.4	-72.918	µg/L	-72.918	ppb	13:32:46
2	Pb 220.353†	35.7	-63.7	0.9149	µg/L	0.9149	ppb	13:32:46

2	S 181.975 Axial†	80.2	64.0	52.545	µg/L	52.545	ppb	13:32:46
2	Sb 206.836†	-1.8	-7.3	0.9323	µg/L	0.9323	ppb	13:32:46
2	Se 196.026†	-36.0	-50.2	-1.76	µg/L	-1.76	ppb	13:32:46
2	SiO2†	1656.9	-24.9	-4.5688	µg/L	-4.5688	ppb	13:32:46
2	Si 251.611†	733.8	382.4	33.501	µg/L	33.501	ppb	13:32:46
2	Sn 189.927†	-92.4	-98.3	2.2215	µg/L	2.2215	ppb	13:32:46
2	Sr 421.552†	242.1	214.6	-1.1554	µg/L	-1.1554	ppb	13:31:42
2	Ti 334.940†	-8620.9	-10931.2	0.9623	µg/L	0.9623	ppb	13:32:26
2	Tl 190.801†	-17.9	-3.1	-8.0863	µg/L	-8.0863	ppb	13:32:46
2	U 367.007†	3874.9	3886.0	-3.2960	µg/L	-3.2960	ppb	13:32:26
2	V 292.402†	-3517.0	-4175.3	0.1108	µg/L	0.1108	ppb	13:32:46
2	Zn 213.857†	2526.9	2196.6	-0.2354	µg/L	-0.2354	ppb	13:32:46
3	Sc 361.383	1156611.4	1156611.4	91.804	%			13:32:48
3	Sc RADIAL	21414.2	21414.2	97.2	%			13:31:46
3	Y 371.029	664906.6	664906.6	89.233	%			13:32:48
3	Ag 328.068†	2771.1	2348.8	0.5823	µg/L	0.5823	ppb	13:32:48
3	Al 396.153Radial†	291346.0	299706.9	480820	µg/L	480820	ppb	13:31:44
3	As 188.979†	-12.0	-10.5	11.980	µg/L	11.980	ppb	13:33:08
3	B 249.677†	55179.9	59846.5	0.7831	µg/L	0.7831	ppb	13:32:48
3	Ba 233.527†	163.3	260.5	1.3417	µg/L	1.3417	ppb	13:33:08
3	Be 313.107†	-8082.4	-1934.8	-0.8386	µg/L	-0.8386	ppb	13:32:48
3	Ca 317.933Radial†	685637.0	705016.3	479920	µg/L	479920	ppb	13:31:44
3	Cd 226.502†	1383.2	1616.2	0.1342	µg/L	0.1342	ppb	13:33:08
3	Co 228.616†	-35.0	60.2	0.1388	µg/L	0.1388	ppb	13:33:08
3	Cr 267.716†	128.7	20.5	1.7425	µg/L	1.7425	ppb	13:33:08
3	Cu 324.752†	-727.8	-4654.6	-1.3607	µg/L	-1.3607	ppb	13:33:08
3	Fe 238.204 Radial†	54703.6	56228.2	191860	µg/L	191860	ppb	13:31:46
3	K 766.490 Radial†	610.6	-24.3	-49.105	µg/L	-49.105	ppb	13:31:46
3	Mg 279.077 IEC†	67599.7	69514.2	492160	µg/L	492160	ppb	13:31:46
3	Mn 257.610†	3782.4	3914.8	-2.5990	µg/L	-2.5990	ppb	13:32:48
3	Mo 202.031†	-173.4	-180.0	0.2966	µg/L	0.2966	ppb	13:33:08
3	Na 589.592 Radial†	-30.5	1.5	-0.3250	µg/L	-0.3250	ppb	13:31:46
3	Ni 231.604†	5.0	48.3	0.4290	µg/L	0.4290	ppb	13:33:08
3	P 214.914†	41.0	104.7	-41.484	µg/L	-41.484	ppb	13:33:08
3	Pb 220.353†	34.4	-65.0	1.1020	µg/L	1.1020	ppb	13:33:08
3	S 181.975 Axial†	70.9	54.3	17.562	µg/L	17.562	ppb	13:33:08
3	Sb 206.836†	16.0	12.1	13.207	µg/L	13.207	ppb	13:33:08
3	Se 196.026†	-28.0	-41.6	10.1	µg/L	10.1	ppb	13:33:08
3	SiO2†	1672.7	0.8	0.1585	µg/L	0.1585	ppb	13:33:08
3	Si 251.611†	731.1	383.2	33.603	µg/L	33.603	ppb	13:33:08
3	Sn 189.927†	-102.5	-109.9	-0.9045	µg/L	-0.9045	ppb	13:33:08
3	Sr 421.552†	201.7	173.7	-1.7568	µg/L	-1.7568	ppb	13:31:46
3	Ti 334.940†	-8629.6	-10984.8	1.7603	µg/L	1.7603	ppb	13:32:48
3	Tl 190.801†	-20.9	-6.5	-12.403	µg/L	-12.403	ppb	13:33:08
3	U 367.007†	3946.6	3983.9	16.316	µg/L	16.316	ppb	13:32:48
3	V 292.402†	-3575.4	-4256.8	-0.3082	µg/L	-0.3082	ppb	13:33:08
3	Zn 213.857†	2554.0	2239.1	0.1824	µg/L	0.1824	ppb	13:33:08

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1161465.2	92.189	%	0.3637				0.39%
Sc RADIAL	21306.1	96.7	%	1.11				1.15%
Y 371.029	668156.6	89.669	%	0.4002				0.45%
Ag 328.068†	2283.8	0.3311	µg/L	0.91608	0.3311	ppb	0.91608	276.72%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	297796.2	477760	µg/L	7774.9	477760	ppb	7774.9	1.63%
QC value within limits for Al 396.153Radial Recovery = 95.55%								
As 188.979†	-16.6	-0.0005	µg/L	13.83052	-0.0005	ppb	13.83052	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	59463.4	-0.8577	µg/L	1.98791	-0.8577	ppb	1.98791	231.78%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	251.0	1.2190	µg/L	0.25045	1.2190	ppb	0.25045	20.55%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1797.5	-0.7791	µg/L	0.05231	-0.7791	ppb	0.05231	6.71%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	696151.3	473890	µg/L	9829.8	473890	ppb	9829.8	2.07%
QC value within limits for Ca 317.933Radial Recovery = 94.78%								
Cd 226.502†	1606.5	0.0861	µg/L	0.11780	0.0861	ppb	0.11780	136.76%
QC value within limits for Cd 226.502 Recovery = Not calculated								

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Co 228.616†                50.4     -0.1454 µg/L       0.25233     -0.1454 ppb        0.25233 173.51%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                23.5      1.8011 µg/L       0.09582      1.8011 ppb        0.09582   5.32%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -4627.2     -1.3074 µg/L       0.10131     -1.3074 ppb        0.10131   7.75%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†      55995.7      191070 µg/L         778.8      191070 ppb          778.8   0.41%
   QC value within limits for Fe 238.204 Radial  Recovery = 95.53%
K 766.490 Radial†         -34.2     -61.303 µg/L       88.5669     -61.303 ppb        88.5669 144.47%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†         69245.4      490260 µg/L        1936.5      490260 ppb         1936.5   0.39%
   QC value within limits for Mg 279.077 IEC  Recovery = 98.05%
Mn 257.610†              3838.3     -2.7689 µg/L       0.17187     -2.7689 ppb        0.17187   6.21%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -188.3     -0.7224 µg/L       0.90654     -0.7224 ppb        0.90654 125.48%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         20.9      14.882 µg/L       39.8231      14.882 ppb        39.8231 267.59%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                30.5     -0.0977 µg/L       0.73133     -0.0977 ppb        0.73133 748.37%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 89.0     -57.718 µg/L       15.7424     -57.718 ppb        15.7424  27.27%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -69.7      0.0027 µg/L       1.74465      0.0027 ppb        1.74465 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           63.2      47.673 µg/L       27.9955      47.673 ppb        27.9955  58.72%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 1.6      6.5928 µg/L       6.19245      6.5928 ppb        6.19245  93.93%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -46.5        3.21 µg/L         6.184        3.21 ppb          6.184 192.91%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      1.1      0.2065 µg/L       4.79949      0.2065 ppb        4.79949 >999.9%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               376.6      33.330 µg/L        0.3879      33.330 ppb         0.3879   1.16%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†              -106.3      0.0009 µg/L       1.93394      0.0009 ppb        1.93394 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               201.7     -1.3902 µg/L       0.32165     -1.3902 ppb        0.32165  23.14%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†            -10965.3      1.4977 µg/L       0.46370      1.4977 ppb        0.46370  30.96%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -3.8     -9.0099 µg/L       3.03803     -9.0099 ppb        3.03803  33.72%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               3905.7      0.0051 µg/L      14.93695      0.0051 ppb       14.93695 >999.9%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†              -4193.2     -0.0043 µg/L       0.26568     -0.0043 ppb        0.26568 >999.9%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              2212.9     -0.0343 µg/L       0.20930     -0.0343 ppb        0.20930 611.07%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 10
Sample ID: ICSAB
Analyst:
Logged In Analyst (Original) : optima4
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 11/6/2013 13:33:17
Data Type: Reprocessed on 11/6/2013 14:25:46

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	1170179.9	1170179.9	92.881	%			13:34:15
1	Sc RADIAL	20779.1	20779.1	94.4	%			13:33:49
1	Y 371.029	674438.3	674438.3	90.512	%			13:34:15
1	Ag 328.068†	38902.4	41214.3	261.52	µg/L	261.52	ppb	13:34:15
1	Al 396.153Radial†	292137.7	309704.1	496850	µg/L	496850	ppb	13:33:47
1	As 188.979†	222.1	241.7	514.88	µg/L	514.88	ppb	13:34:35
1	B 249.677†	91946.4	98734.1	474.67	µg/L	474.67	ppb	13:34:15
1	Ba 233.527†	31372.8	33859.9	475.02	µg/L	475.02	ppb	13:34:35
1	Be 313.107†	503116.1	548546.0	237.75	µg/L	237.75	ppb	13:34:15
1	Ca 317.933Radial†	678515.9	719021.3	489460	µg/L	489460	ppb	13:33:47
1	Cd 226.502†	27855.1	30099.5	445.23	µg/L	445.23	ppb	13:34:35
1	Co 228.616†	13688.0	14835.5	434.76	µg/L	434.76	ppb	13:34:35
1	Cr 267.716†	23475.2	25154.7	461.74	µg/L	461.74	ppb	13:34:35
1	Cu 324.752†	74684.4	76546.7	542.95	µg/L	542.95	ppb	13:34:15
1	Fe 238.204 Radial†	52777.9	55906.9	190750	µg/L	190750	ppb	13:33:49
1	K 766.490 Radial†	4398.7	4009.5	4955.3	µg/L	4955.3	ppb	13:33:49
1	Mg 279.077 IEC†	65359.3	69264.7	490400	µg/L	490400	ppb	13:33:49
1	Mn 257.610†	149167.0	160394.5	453.54	µg/L	453.54	ppb	13:34:15
1	Mo 202.031†	3722.6	4016.7	474.27	µg/L	474.27	ppb	13:34:35
1	Na 589.592 Radial†	6022.7	6415.9	5015.6	µg/L	5015.6	ppb	13:33:49
1	Ni 231.604†	13277.9	14338.4	426.70	µg/L	426.70	ppb	13:34:35
1	P 214.914†	2098.7	2319.6	2303.2	µg/L	2303.2	ppb	13:34:35
1	Pb 220.353†	2059.5	2114.9	470.23	µg/L	470.23	ppb	13:34:35
1	S 181.975 Axial†	764.8	800.5	2454.7	µg/L	2454.7	ppb	13:34:35
1	Sb 206.836†	690.6	738.1	472.21	µg/L	472.21	ppb	13:34:35
1	Se 196.026†	1473.0	1574.8	2210	µg/L	2210	ppb	13:34:35
1	SiO2†	54111.2	56437.2	10396	µg/L	10396	ppb	13:34:15
1	Si 251.611†	155065.6	166537.4	4917.8	µg/L	4917.8	ppb	13:34:15
1	Sn 189.927†	939.0	1012.8	456.64	µg/L	456.64	ppb	13:34:35
1	Sr 421.552†	40992.3	43410.8	491.64	µg/L	491.64	ppb	13:33:49
1	Ti 334.940†	237918.8	254569.1	496.62	µg/L	496.62	ppb	13:34:15
1	Tl 190.801†	347.2	390.0	464.20	µg/L	464.20	ppb	13:34:35
1	U 367.007†	5586.6	5699.8	488.82	µg/L	488.82	ppb	13:34:15
1	V 292.402†	60703.9	64994.2	494.52	µg/L	494.52	ppb	13:34:15
1	Zn 213.857†	36161.0	38389.6	458.80	µg/L	458.80	ppb	13:34:15
2	Sc 361.383	1165500.0	1165500.0	92.510	%			13:34:37
2	Sc RADIAL	20623.2	20623.2	93.6	%			13:33:53
2	Y 371.029	670881.5	670881.5	90.035	%			13:34:37
2	Ag 328.068†	38884.0	41362.7	262.47	µg/L	262.47	ppb	13:34:37
2	Al 396.153Radial†	290358.9	310145.7	497560	µg/L	497560	ppb	13:33:51
2	As 188.979†	218.2	238.4	508.36	µg/L	508.36	ppb	13:34:58
2	B 249.677†	92558.5	99793.2	487.53	µg/L	487.53	ppb	13:34:37
2	Ba 233.527†	31502.1	34135.3	478.90	µg/L	478.90	ppb	13:34:58
2	Be 313.107†	503439.9	551071.1	238.85	µg/L	238.85	ppb	13:34:37
2	Ca 317.933Radial†	675250.9	720972.2	490790	µg/L	490790	ppb	13:33:51
2	Cd 226.502†	27963.7	30337.3	448.95	µg/L	448.95	ppb	13:34:58
2	Co 228.616†	13718.4	14927.6	437.47	µg/L	437.47	ppb	13:34:58
2	Cr 267.716†	23542.1	25328.6	464.91	µg/L	464.91	ppb	13:34:58
2	Cu 324.752†	74926.8	77131.6	546.88	µg/L	546.88	ppb	13:34:37
2	Fe 238.204 Radial†	52375.5	55900.1	190730	µg/L	190730	ppb	13:33:53
2	K 766.490 Radial†	4430.2	4078.4	5040.8	µg/L	5040.8	ppb	13:33:53
2	Mg 279.077 IEC†	64775.9	69165.5	489690	µg/L	489690	ppb	13:33:53
2	Mn 257.610†	149245.6	161124.3	455.70	µg/L	455.70	ppb	13:34:37
2	Mo 202.031†	3741.5	4053.3	478.38	µg/L	478.38	ppb	13:34:58
2	Na 589.592 Radial†	5848.5	6278.1	4907.9	µg/L	4907.9	ppb	13:33:53
2	Ni 231.604†	13337.2	14459.9	430.32	µg/L	430.32	ppb	13:34:58
2	P 214.914†	2098.7	2328.6	2312.9	µg/L	2312.9	ppb	13:34:58
2	Pb 220.353†	2079.7	2145.7	476.85	µg/L	476.85	ppb	13:34:58

2	S 181.975 Axial†	762.0	800.8	2455.6	µg/L	2455.6	ppb	13:34:58
2	Sb 206.836†	700.8	752.3	481.13	µg/L	481.13	ppb	13:34:58
2	Se 196.026†	1474.0	1582.2	2220	µg/L	2220	ppb	13:34:58
2	SiO2†	54261.9	56834.1	10469	µg/L	10469	ppb	13:34:37
2	Si 251.611†	155244.0	167400.6	4943.2	µg/L	4943.2	ppb	13:34:37
2	Sn 189.927†	950.6	1029.4	463.52	µg/L	463.52	ppb	13:34:58
2	Sr 421.552†	40799.6	43533.5	493.03	µg/L	493.03	ppb	13:33:53
2	Ti 334.940†	238112.9	255807.4	498.99	µg/L	498.99	ppb	13:34:37
2	Tl 190.801†	343.5	387.5	461.15	µg/L	461.15	ppb	13:34:58
2	U 367.007†	5642.3	5784.1	511.87	µg/L	511.87	ppb	13:34:37
2	V 292.402†	60744.3	65300.3	496.74	µg/L	496.74	ppb	13:34:37
2	Zn 213.857†	36208.4	38597.2	461.44	µg/L	461.44	ppb	13:34:37
3	Sc 361.383	1165185.5	1165185.5	92.485	%			13:35:00
3	Sc RADIAL	20931.5	20931.5	95.0	%			13:33:57
3	Y 371.029	671363.8	671363.8	90.099	%			13:35:00
3	Ag 328.068†	39066.4	41571.1	264.35	µg/L	264.35	ppb	13:35:00
3	Al 396.153Radial†	284111.7	299006.0	479690	µg/L	479690	ppb	13:33:55
3	As 188.979†	222.7	243.3	518.11	µg/L	518.11	ppb	13:35:20
3	B 249.677†	92854.5	100140.3	491.79	µg/L	491.79	ppb	13:35:00
3	Ba 233.527†	31520.9	34164.9	479.32	µg/L	479.32	ppb	13:35:20
3	Be 313.107†	506820.9	554873.7	240.50	µg/L	240.50	ppb	13:35:00
3	Ca 317.933Radial†	660137.6	694450.7	472730	µg/L	472730	ppb	13:33:55
3	Cd 226.502†	28043.0	30431.3	450.42	µg/L	450.42	ppb	13:35:20
3	Co 228.616†	13759.8	14976.3	438.90	µg/L	438.90	ppb	13:35:20
3	Cr 267.716†	23578.7	25375.0	465.76	µg/L	465.76	ppb	13:35:20
3	Cu 324.752†	75159.5	77405.1	548.71	µg/L	548.71	ppb	13:35:00
3	Fe 238.204 Radial†	53149.7	55890.9	190700	µg/L	190700	ppb	13:33:57
3	K 766.490 Radial†	4617.8	4206.1	5199.0	µg/L	5199.0	ppb	13:33:57
3	Mg 279.077 IEC†	65880.8	69309.1	490710	µg/L	490710	ppb	13:33:57
3	Mn 257.610†	149717.2	161677.8	457.27	µg/L	457.27	ppb	13:35:00
3	Mo 202.031†	3756.8	4071.0	480.41	µg/L	480.41	ppb	13:35:20
3	Na 589.592 Radial†	5998.8	6344.2	4959.6	µg/L	4959.6	ppb	13:33:57
3	Ni 231.604†	13370.0	14499.3	431.50	µg/L	431.50	ppb	13:35:20
3	P 214.914†	2091.8	2321.8	2301.9	µg/L	2301.9	ppb	13:35:20
3	Pb 220.353†	2075.4	2141.6	475.25	µg/L	475.25	ppb	13:35:20
3	S 181.975 Axial†	769.6	809.2	2487.0	µg/L	2487.0	ppb	13:35:20
3	Sb 206.836†	717.4	770.4	492.61	µg/L	492.61	ppb	13:35:20
3	Se 196.026†	1480.2	1589.4	2230	µg/L	2230	ppb	13:35:20
3	SiO2†	54325.1	56918.2	10485	µg/L	10485	ppb	13:35:00
3	Si 251.611†	155871.7	168124.5	4964.5	µg/L	4964.5	ppb	13:35:00
3	Sn 189.927†	952.6	1031.9	462.89	µg/L	462.89	ppb	13:35:20
3	Sr 421.552†	41340.7	43461.0	492.34	µg/L	492.34	ppb	13:33:57
3	Ti 334.940†	239302.0	257162.7	500.56	µg/L	500.56	ppb	13:35:00
3	Tl 190.801†	356.6	401.8	478.63	µg/L	478.63	ppb	13:35:20
3	U 367.007†	5594.0	5733.5	501.21	µg/L	501.21	ppb	13:35:00
3	V 292.402†	61080.6	65681.6	499.44	µg/L	499.44	ppb	13:35:00
3	Zn 213.857†	36505.2	38928.7	465.64	µg/L	465.64	ppb	13:35:00

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1166955.1	92.625	%	0.2220				0.24%
Sc RADIAL	20777.9	94.4	%	0.70				0.74%
Y 371.029	672227.9	90.215	%	0.2589				0.29%
Ag 328.068†	41382.7	262.78	µg/L	1.441	262.78	ppb	1.441	0.55%
QC value within limits for Ag 328.068 Recovery = 105.11%								
Al 396.153Radial†	306285.3	491370	µg/L	10119.7	491370	ppb	10119.7	2.06%
QC value within limits for Al 396.153Radial Recovery = 98.27%								
As 188.979†	241.1	513.78	µg/L	4.969	513.78	ppb	4.969	0.97%
QC value within limits for As 188.979 Recovery = 102.76%								
B 249.677†	99555.8	484.66	µg/L	8.916	484.66	ppb	8.916	1.84%
QC value within limits for B 249.677 Recovery = 96.93%								
Ba 233.527†	34053.4	477.75	µg/L	2.371	477.75	ppb	2.371	0.50%
QC value within limits for Ba 233.527 Recovery = 95.55%								
Be 313.107†	551496.9	239.03	µg/L	1.381	239.03	ppb	1.381	0.58%
QC value within limits for Be 313.107 Recovery = 95.61%								
Ca 317.933Radial†	711481.4	484320	µg/L	10064.7	484320	ppb	10064.7	2.08%
QC value within limits for Ca 317.933Radial Recovery = 96.86%								
Cd 226.502†	30289.4	448.20	µg/L	2.675	448.20	ppb	2.675	0.60%
QC value within limits for Cd 226.502 Recovery = 89.64%								

Co 228.616†	14913.1	437.04 µg/L	2.105	437.04 ppb	2.105	0.48%
QC value within limits for Co 228.616 Recovery = 87.41%						
Cr 267.716†	25286.1	464.13 µg/L	2.120	464.13 ppb	2.120	0.46%
QC value within limits for Cr 267.716 Recovery = 92.83%						
Cu 324.752†	77027.8	546.18 µg/L	2.938	546.18 ppb	2.938	0.54%
QC value within limits for Cu 324.752 Recovery = 109.24%						
Fe 238.204 Radial†	55899.3	190720 µg/L	27.5	190720 ppb	27.5	0.01%
QC value within limits for Fe 238.204 Radial Recovery = 95.36%						
K 766.490 Radial†	4098.0	5065.1 µg/L	123.65	5065.1 ppb	123.65	2.44%
QC value within limits for K 766.490 Radial Recovery = 101.30%						
Mg 279.077 IEC†	69246.5	490270 µg/L	520.4	490270 ppb	520.4	0.11%
QC value within limits for Mg 279.077 IEC Recovery = 98.05%						
Mn 257.610†	161065.5	455.50 µg/L	1.871	455.50 ppb	1.871	0.41%
QC value within limits for Mn 257.610 Recovery = 91.10%						
Mo 202.031†	4047.0	477.69 µg/L	3.125	477.69 ppb	3.125	0.65%
QC value within limits for Mo 202.031 Recovery = 95.54%						
Na 589.592 Radial†	6346.1	4961.1 µg/L	53.88	4961.1 ppb	53.88	1.09%
QC value within limits for Na 589.592 Radial Recovery = 99.22%						
Ni 231.604†	14432.5	429.50 µg/L	2.501	429.50 ppb	2.501	0.58%
QC value within limits for Ni 231.604 Recovery = 85.90%						
P 214.914†	2323.4	2306.0 µg/L	6.01	2306.0 ppb	6.01	0.26%
QC value within limits for P 214.914 Recovery = 92.24%						
Pb 220.353†	2134.0	474.11 µg/L	3.453	474.11 ppb	3.453	0.73%
QC value within limits for Pb 220.353 Recovery = 94.82%						
S 181.975 Axial†	803.5	2465.8 µg/L	18.40	2465.8 ppb	18.40	0.75%
QC value within limits for S 181.975 Axial Recovery = 98.63%						
Sb 206.836†	753.6	481.98 µg/L	10.224	481.98 ppb	10.224	2.12%
QC value within limits for Sb 206.836 Recovery = 96.40%						
Se 196.026†	1582.1	2220 µg/L	9.9	2220 ppb	9.9	0.45%
QC value within limits for Se 196.026 Recovery = 88.82%						
SiO2†	56729.8	10450 µg/L	47.3	10450 ppb	47.3	0.45%
QC value within limits for SiO2 Recovery = 97.71%						
Si 251.611†	167354.1	4941.8 µg/L	23.34	4941.8 ppb	23.34	0.47%
QC value within limits for Si 251.611 Recovery = 98.84%						
Sn 189.927†	1024.7	461.02 µg/L	3.804	461.02 ppb	3.804	0.83%
QC value within limits for Sn 189.927 Recovery = 92.20%						
Sr 421.552†	43468.4	492.34 µg/L	0.695	492.34 ppb	0.695	0.14%
QC value within limits for Sr 421.552 Recovery = 98.47%						
Ti 334.940†	255846.4	498.72 µg/L	1.982	498.72 ppb	1.982	0.40%
QC value within limits for Ti 334.940 Recovery = 99.74%						
Tl 190.801†	393.1	467.99 µg/L	9.336	467.99 ppb	9.336	1.99%
QC value within limits for Tl 190.801 Recovery = 93.60%						
U 367.007†	5739.1	500.63 µg/L	11.535	500.63 ppb	11.535	2.30%
QC value within limits for U 367.007 Recovery = 100.13%						
V 292.402†	65325.4	496.90 µg/L	2.466	496.90 ppb	2.466	0.50%
QC value within limits for V 292.402 Recovery = 99.38%						
Zn 213.857†	38638.5	461.96 µg/L	3.453	461.96 ppb	3.453	0.75%
QC value within limits for Zn 213.857 Recovery = 92.39%						

All analyte(s) passed QC.

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Sequence No.: 11 **Autosampler Location: 105**
Sample ID: LR1 **Date Collected: 11/6/2013 13:35:28**
Analyst: **Data Type: Reprocessed on 11/6/2013 14:25:47**
Logged In Analyst (Original) : optima4
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	1147827.4	1147827.4	91.107	%			13:36:26
1	Sc RADIAL	20954.7	20954.7	95.2	%			13:36:00
1	Y 371.029	653064.6	653064.6	87.644	%			13:36:26
1	Ag 328.068†	5374.8	5229.8	3.0845	µg/L	3.0845	ppb	13:36:26
1	Al 396.153Radial†	283632.1	298170.4	478380	µg/L	478380	ppb	13:35:58
1	As 188.979†	-34.7	-35.6	11.179	µg/L	11.179	ppb	13:36:46
1	B 249.677†	136588.8	149661.8	21.177	µg/L	21.177	ppb	13:36:26
1	Ba 233.527†	451.8	578.4	2.3620	µg/L	2.3620	ppb	13:36:46
1	Be 313.107†	-16390.0	-11120.7	-4.8200	µg/L	-4.8200	ppb	13:36:26
1	Ca 317.933Radial†	656171.3	689511.9	469360	µg/L	469360	ppb	13:35:58
1	Cd 226.502†	3670.7	4138.5	2.5132	µg/L	2.5132	ppb	13:36:46
1	Co 228.616†	105.6	214.4	2.2073	µg/L	2.2073	ppb	13:36:46
1	Cr 267.716†	435.6	358.4	7.7975	µg/L	7.7975	ppb	13:36:46
1	Cu 324.752†	-7191.2	-11754.9	-1.6349	µg/L	-1.6349	ppb	13:36:26
1	Fe 238.204 Radial†	132403.9	139119.9	474700	µg/L	474700	ppb	13:36:00
1	K 766.490 Radial†	532.5	-92.7	-372.87	µg/L	-372.87	ppb	13:36:00
1	Mg 279.077 IEC†	66593.9	69981.7	495520	µg/L	495520	ppb	13:36:00
1	Mn 257.610†	2062.7	2058.8	-1.6889	µg/L	-1.6889	ppb	13:36:26
1	Mo 202.031†	-240.4	-255.1	-3.1828	µg/L	-3.1828	ppb	13:36:46
1	Na 589.592 Radial†	571532.1	600676.7	469720	µg/L	469720	ppb	13:35:58
1	Ni 231.604†	109.9	163.5	2.3753	µg/L	2.3753	ppb	13:36:46
1	P 214.914†	412.9	513.2	15.328	µg/L	15.328	ppb	13:36:46
1	Pb 220.353†	176.3	91.0	14.797	µg/L	14.797	ppb	13:36:46
1	S 181.975 Axial†	13945.0	15283.3	49807	µg/L	49807	ppb	13:36:46
1	Sb 206.836†	13.1	9.0	19.741	µg/L	19.741	ppb	13:36:46
1	Se 196.026†	-120.7	-143.6	-26.6	µg/L	-26.6	ppb	13:36:46
1	SiO2†	1620.3	-42.8	-7.7442	µg/L	-7.7442	ppb	13:36:46
1	Si 251.611†	-263.1	-701.9	34.282	µg/L	34.282	ppb	13:36:46
1	Sn 189.927†	-95.4	-102.9	1.6056	µg/L	1.6056	ppb	13:36:46
1	Sr 421.552†	608.9	606.3	3.2622	µg/L	3.2622	ppb	13:36:00
1	Ti 334.940†	-4815.7	-6870.5	0.5128	µg/L	0.5128	ppb	13:36:26
1	Tl 190.801†	-22.7	-8.7	-14.674	µg/L	-14.674	ppb	13:36:46
1	U 367.007†	57869.5	63203.1	14829	µg/L	14829	ppb	13:36:26
1	V 292.402†	-10586.6	-11982.2	-2.2321	µg/L	-2.2321	ppb	13:36:26
1	Zn 213.857†	5050.8	5000.9	7.2157	µg/L	7.2157	ppb	13:36:46
2	Sc 361.383	1118875.9	1118875.9	88.809	%			13:36:48
2	Sc RADIAL	20366.9	20366.9	92.5	%			13:36:04
2	Y 371.029	636926.9	636926.9	85.478	%			13:36:48
2	Ag 328.068†	5168.2	5149.8	2.3065	µg/L	2.3065	ppb	13:36:48
2	Al 396.153Radial†	281265.4	304214.7	488070	µg/L	488070	ppb	13:36:02
2	As 188.979†	-33.2	-34.9	12.439	µg/L	12.439	ppb	13:37:08
2	B 249.677†	132416.4	148842.9	13.503	µg/L	13.503	ppb	13:36:48
2	Ba 233.527†	433.8	571.0	2.2669	µg/L	2.2669	ppb	13:37:08
2	Be 313.107†	-16074.1	-11230.5	-4.8676	µg/L	-4.8676	ppb	13:36:48
2	Ca 317.933Radial†	647612.0	700160.4	476620	µg/L	476620	ppb	13:36:02
2	Cd 226.502†	3693.9	4268.9	4.6260	µg/L	4.6260	ppb	13:37:08
2	Co 228.616†	120.3	233.9	2.7841	µg/L	2.7841	ppb	13:37:08
2	Cr 267.716†	415.0	347.6	7.5537	µg/L	7.5537	ppb	13:37:08
2	Cu 324.752†	-6881.6	-11610.6	-0.7260	µg/L	-0.7260	ppb	13:36:48
2	Fe 238.204 Radial†	128531.3	138948.8	474120	µg/L	474120	ppb	13:36:04
2	K 766.490 Radial†	471.1	-143.0	-439.11	µg/L	-439.11	ppb	13:36:04
2	Mg 279.077 IEC†	64466.6	69701.4	493530	µg/L	493530	ppb	13:36:04
2	Mn 257.610†	2111.5	2172.3	-1.2971	µg/L	-1.2971	ppb	13:36:48
2	Mo 202.031†	-251.1	-273.9	-5.3933	µg/L	-5.3933	ppb	13:37:08
2	Na 589.592 Radial†	566061.4	612097.4	478650	µg/L	478650	ppb	13:36:02
2	Ni 231.604†	117.8	175.5	2.7358	µg/L	2.7358	ppb	13:37:08
2	P 214.914†	400.0	510.5	15.318	µg/L	15.318	ppb	13:37:08
2	Pb 220.353†	172.0	91.2	15.185	µg/L	15.185	ppb	13:37:08

2	S 181.975 Axial†	13886.7	15613.7	50887	µg/L	50887	ppb	13:37:08
2	Sb 206.836†	4.5	-0.2	13.868	µg/L	13.868	ppb	13:37:08
2	Se 196.026†	-107.1	-131.6	-10.6	µg/L	-10.6	ppb	13:37:08
2	SiO2†	1593.5	-26.9	-4.8304	µg/L	-4.8304	ppb	13:37:08
2	Si 251.611†	-326.0	-780.2	31.939	µg/L	31.939	ppb	13:37:08
2	Sn 189.927†	-100.5	-111.3	-1.1714	µg/L	-1.1714	ppb	13:37:08
2	Sr 421.552†	548.5	559.5	2.6716	µg/L	2.6716	ppb	13:36:04
2	Ti 334.940†	-4642.0	-6811.7	0.9825	µg/L	0.9825	ppb	13:36:48
2	Tl 190.801†	-22.0	-8.5	-14.503	µg/L	-14.503	ppb	13:37:08
2	U 367.007†	56631.2	63452.4	14899	µg/L	14899	ppb	13:36:48
2	V 292.402†	-10209.4	-11858.3	-1.4336	µg/L	-1.4336	ppb	13:36:48
2	Zn 213.857†	5000.0	5087.1	8.4080	µg/L	8.4080	ppb	13:37:08
3	Sc 361.383	1134512.8	1134512.8	90.050	%			13:37:11
3	Sc RADIAL	20490.8	20490.8	93.0	%			13:36:08
3	Y 371.029	645889.6	645889.6	86.681	%			13:37:11
3	Ag 328.068†	5228.7	5136.8	2.1481	µg/L	2.1481	ppb	13:37:11
3	Al 396.153Radial†	284873.6	306253.6	491340	µg/L	491340	ppb	13:36:06
3	As 188.979†	-39.8	-41.7	-1.1780	µg/L	-1.1780	ppb	13:37:31
3	B 249.677†	134688.8	149311.4	22.100	µg/L	22.100	ppb	13:37:11
3	Ba 233.527†	439.1	570.2	2.2675	µg/L	2.2675	ppb	13:37:31
3	Be 313.107†	-16283.7	-11213.8	-4.8603	µg/L	-4.8603	ppb	13:37:11
3	Ca 317.933Radial†	657015.4	706032.5	480610	µg/L	480610	ppb	13:36:06
3	Cd 226.502†	3669.9	4185.0	3.4155	µg/L	3.4155	ppb	13:37:31
3	Co 228.616†	95.8	204.8	1.9368	µg/L	1.9368	ppb	13:37:31
3	Cr 267.716†	453.3	383.7	8.2131	µg/L	8.2131	ppb	13:37:31
3	Cu 324.752†	-7250.5	-11913.4	-2.8805	µg/L	-2.8805	ppb	13:37:11
3	Fe 238.204 Radial†	129103.5	138723.4	473350	µg/L	473350	ppb	13:36:08
3	K 766.490 Radial†	402.0	-220.3	-536.54	µg/L	-536.54	ppb	13:36:08
3	Mg 279.077 IEC†	64725.0	69557.6	492520	µg/L	492520	ppb	13:36:08
3	Mn 257.610†	1934.7	1943.3	-1.9443	µg/L	-1.9443	ppb	13:37:11
3	Mo 202.031†	-243.9	-262.0	-4.0966	µg/L	-4.0966	ppb	13:37:31
3	Na 589.592 Radial†	574071.9	617005.7	482490	µg/L	482490	ppb	13:36:06
3	Ni 231.604†	80.3	132.0	1.4425	µg/L	1.4425	ppb	13:37:31
3	P 214.914†	386.7	489.4	-5.2865	µg/L	-5.2865	ppb	13:37:31
3	Pb 220.353†	175.5	92.4	15.625	µg/L	15.625	ppb	13:37:31
3	S 181.975 Axial†	13880.3	15391.0	50157	µg/L	50157	ppb	13:37:31
3	Sb 206.836†	1.5	-3.7	11.651	µg/L	11.651	ppb	13:37:31
3	Se 196.026†	-103.8	-126.3	-3.60	µg/L	-3.60	ppb	13:37:31
3	SiO2†	1657.1	19.0	3.6285	µg/L	3.6285	ppb	13:37:31
3	Si 251.611†	-318.0	-766.3	32.242	µg/L	32.242	ppb	13:37:31
3	Sn 189.927†	-108.3	-118.4	-3.6860	µg/L	-3.6860	ppb	13:37:31
3	Sr 421.552†	574.7	584.0	2.9201	µg/L	2.9201	ppb	13:36:08
3	Ti 334.940†	-4868.8	-6991.5	0.8774	µg/L	0.8774	ppb	13:37:11
3	Tl 190.801†	-23.7	-10.0	-16.408	µg/L	-16.408	ppb	13:37:31
3	U 367.007†	57341.8	63362.5	14878	µg/L	14878	ppb	13:37:11
3	V 292.402†	-10215.0	-11706.0	-0.4734	µg/L	-0.4734	ppb	13:37:11
3	Zn 213.857†	5031.2	5044.2	7.9653	µg/L	7.9653	ppb	13:37:31

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1133738.7	89.989	%	1.1502				1.28%
Sc RADIAL	20604.1	93.6	%	1.41				1.50%
Y 371.029	645293.7	86.601	%	1.0851				1.25%
Ag 328.068†	5172.1	2.5130	µg/L	0.50124	2.5130	ppb	0.50124	19.95%
Al 396.153Radial†	302879.5	485930	µg/L	6743.5	485930	ppb	6743.5	1.39%
QC value within limits for Al 396.153Radial Recovery = 97.19%								
As 188.979†	-37.4	7.4800	µg/L	7.52444	7.4800	ppb	7.52444	100.59%
B 249.677†	149272.0	18.926	µg/L	4.7197	18.926	ppb	4.7197	24.94%
Ba 233.527†	573.2	2.2988	µg/L	0.05474	2.2988	ppb	0.05474	2.38%
Be 313.107†	-11188.3	-4.8493	µg/L	0.02565	-4.8493	ppb	0.02565	0.53%
Ca 317.933Radial†	698568.3	475530	µg/L	5702.6	475530	ppb	5702.6	1.20%
QC value within limits for Ca 317.933Radial Recovery = 95.11%								
Cd 226.502†	4197.4	3.5182	µg/L	1.06014	3.5182	ppb	1.06014	30.13%
Co 228.616†	217.7	2.3094	µg/L	0.43282	2.3094	ppb	0.43282	18.74%
Cr 267.716†	363.3	7.8548	µg/L	0.33340	7.8548	ppb	0.33340	4.24%
Cu 324.752†	-11759.7	-1.7471	µg/L	1.08162	-1.7471	ppb	1.08162	61.91%
Fe 238.204 Radial†	138930.7	474050	µg/L	678.5	474050	ppb	678.5	0.14%
QC value within limits for Fe 238.204 Radial Recovery = 94.81%								
K 766.490 Radial†	-152.0	-449.51	µg/L	82.331	-449.51	ppb	82.331	18.32%

Mg 279.077 IEC†	69746.9	493860	µg/L	1526.9	493860	ppb	1526.9	0.31%
QC value within limits for Mg 279.077 IEC Recovery = 98.77%								
Mn 257.610†	2058.1	-1.6434	µg/L	0.32596	-1.6434	ppb	0.32596	19.83%
Mo 202.031†	-263.7	-4.2242	µg/L	1.11078	-4.2242	ppb	1.11078	26.30%
Na 589.592 Radial†	609926.6	476950	µg/L	6551.6	476950	ppb	6551.6	1.37%
QC value within limits for Na 589.592 Radial Recovery = 95.39%								
Ni 231.604†	157.0	2.1845	µg/L	0.66745	2.1845	ppb	0.66745	30.55%
P 214.914†	504.4	8.4529	µg/L	11.89867	8.4529	ppb	11.89867	140.76%
Pb 220.353†	91.5	15.202	µg/L	0.4145	15.202	ppb	0.4145	2.73%
S 181.975 Axial†	15429.3	50284	µg/L	550.8	50284	ppb	550.8	1.10%
QC value within limits for S 181.975 Axial Recovery = 100.57%								
Sb 206.836†	1.7	15.087	µg/L	4.1803	15.087	ppb	4.1803	27.71%
Se 196.026†	-133.9	-13.6	µg/L	11.80	-13.6	ppb	11.80	86.84%
SiO2†	-16.9	-2.9820	µg/L	5.90738	-2.9820	ppb	5.90738	198.10%
Si 251.611†	-749.5	32.821	µg/L	1.2743	32.821	ppb	1.2743	3.88%
Sn 189.927†	-110.9	-1.0839	µg/L	2.64688	-1.0839	ppb	2.64688	244.20%
Sr 421.552†	583.3	2.9513	µg/L	0.29653	2.9513	ppb	0.29653	10.05%
Ti 334.940†	-6891.3	0.7909	µg/L	0.24647	0.7909	ppb	0.24647	31.16%
Tl 190.801†	-9.1	-15.195	µg/L	1.0539	-15.195	ppb	1.0539	6.94%
U 367.007†	63339.3	14869	µg/L	36.0	14869	ppb	36.0	0.24%
QC value within limits for U 367.007 Recovery = 99.12%								
V 292.402†	-11848.8	-1.3797	µg/L	0.88059	-1.3797	ppb	0.88059	63.82%
Zn 213.857†	5044.1	7.8630	µg/L	0.60271	7.8630	ppb	0.60271	7.67%

All analyte(s) passed QC.

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Sequence No.: 12
Sample ID: LR2
Analyst:
Logged In Analyst (Original) : optima4
Initial Sample Wt:
Dilution:

Autosampler Location: 108
Date Collected: 11/6/2013 13:37:39
Data Type: Reprocessed on 11/6/2013 14:25:48

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	1269742.9	1269742.9	100.78	%			13:39:42
1	Sc RADIAL	21774.5	21774.5	98.9	%			13:38:13
1	Y 371.029	725719.8	725719.8	97.394	%			13:39:42
1	Ag 328.068†	-2893.7	-3540.9	12.876	µg/L	12.876	ppb	13:39:44
1	Al 396.153Radial†	59.0	150.8	141.92	µg/L	141.92	ppb	13:38:13
1	As 188.979†	5038.6	5001.9	10100	µg/L	10100	ppb	13:40:05
1	B 249.677†	397930.9	394576.4	4691.9	µg/L	4691.9	ppb	13:39:42
1	Ba 233.527†	1045989.3	1037936.4	14618	µg/L	14618	ppb	13:39:42
1	Be 313.107†	6788007.5	6742080.6	2922.2	µg/L	2922.2	ppb	13:39:40
1	Ca 317.933Radial†	136.0	55.3	37.658	µg/L	37.658	ppb	13:38:33
1	Cd 226.502†	636835.0	631991.3	9872.9	µg/L	9872.9	ppb	13:39:42
1	Co 228.616†	323982.9	321561.4	9462.1	µg/L	9462.1	ppb	13:39:44
1	Cr 267.716†	1341827.2	1331271.0	24387	µg/L	24387	ppb	13:39:42
1	Cu 324.752†	3199749.5	3171000.5	21254	µg/L	21254	ppb	13:39:42
1	Fe 238.204 Radial†	-46.2	-74.9	-548.92	µg/L	-548.92	ppb	13:38:33
1	K 766.490 Radial†	226187.5	228107.2	282760	µg/L	282760	ppb	13:38:11
1	Mg 279.077 IEC†	-7.9	-12.3	-87.096	µg/L	-87.096	ppb	13:38:33
1	Mn 257.610†	3269601.5	3243965.8	9455.4	µg/L	9455.4	ppb	13:39:42
1	Mo 202.031†	84410.4	83762.7	9461.8	µg/L	9461.8	ppb	13:39:44
1	Na 589.592 Radial†	57.5	91.0	71.169	µg/L	71.169	ppb	13:38:13
1	Ni 231.604†	326935.2	324435.2	9677.6	µg/L	9677.6	ppb	13:39:44
1	P 214.914†	13260.6	13217.5	13731	µg/L	13731	ppb	13:39:44
1	Pb 220.353†	114680.6	113686.2	24397	µg/L	24397	ppb	13:39:44
1	S 181.975 Axial†	67.1	43.7	110.55	µg/L	110.55	ppb	13:40:05
1	Sb 206.836†	15645.7	15518.7	9633.4	µg/L	9633.4	ppb	13:39:44
1	Se 196.026†	7116.1	7049.7	9580	µg/L	9580	ppb	13:40:05
1	SiO2†	528905.0	522970.0	96730	µg/L	96730	ppb	13:39:42
1	Si 251.611†	1544216.2	1531792.4	44961	µg/L	44961	ppb	13:39:42
1	Sn 189.927†	24395.3	24207.4	9847.4	µg/L	9847.4	ppb	13:39:44
1	Sr 421.552†	839376.3	848887.2	9688.5	µg/L	9688.5	ppb	13:38:11
1	Ti 334.940†	5306278.7	5263422.6	9797.0	µg/L	9797.0	ppb	13:39:40
1	Tl 190.801†	8128.5	8081.5	9697.6	µg/L	9697.6	ppb	13:39:44
1	U 367.007†	353.9	36.1	-36.447	µg/L	-36.447	ppb	13:39:44
1	V 292.402†	1425471.0	1414021.7	10132	µg/L	10132	ppb	13:39:42
1	Zn 213.857†	1155639.7	1146108.4	14550	µg/L	14550	ppb	13:39:42
2	Sc 361.383	1261216.4	1261216.4	100.11	%			13:40:10
2	Sc RADIAL	22235.5	22235.5	101	%			13:38:37
2	Y 371.029	721781.2	721781.2	96.866	%			13:40:10
2	Ag 328.068†	-2685.6	-3352.4	13.322	µg/L	13.322	ppb	13:40:12
2	Al 396.153Radial†	55.6	146.2	134.23	µg/L	134.23	ppb	13:38:37
2	As 188.979†	5049.1	5046.2	10181	µg/L	10181	ppb	13:40:32
2	B 249.677†	383312.4	382642.8	4551.2	µg/L	4551.2	ppb	13:40:10
2	Ba 233.527†	1007195.3	1006200.4	14171	µg/L	14171	ppb	13:40:10
2	Be 313.107†	6800191.1	6799785.0	2947.2	µg/L	2947.2	ppb	13:40:07
2	Ca 317.933Radial†	129.1	45.6	31.088	µg/L	31.088	ppb	13:38:57
2	Cd 226.502†	609902.6	609359.6	9519.5	µg/L	9519.5	ppb	13:40:10
2	Co 228.616†	322461.3	322214.8	9480.9	µg/L	9480.9	ppb	13:40:12
2	Cr 267.716†	1292477.0	1290974.6	23648	µg/L	23648	ppb	13:40:10
2	Cu 324.752†	3100403.6	3093224.8	20732	µg/L	20732	ppb	13:40:10
2	Fe 238.204 Radial†	-47.6	-75.3	-550.86	µg/L	-550.86	ppb	13:38:57
2	K 766.490 Radial†	223907.7	221106.5	274090	µg/L	274090	ppb	13:38:35
2	Mg 279.077 IEC†	-20.4	-24.5	-173.45	µg/L	-173.45	ppb	13:38:57
2	Mn 257.610†	3153395.1	3149816.2	9181.0	µg/L	9181.0	ppb	13:40:10
2	Mo 202.031†	84086.2	84005.1	9489.1	µg/L	9489.1	ppb	13:40:12
2	Na 589.592 Radial†	80.6	112.8	88.183	µg/L	88.183	ppb	13:38:37
2	Ni 231.604†	325103.2	324798.2	9688.4	µg/L	9688.4	ppb	13:40:12
2	P 214.914†	13132.0	13177.9	13694	µg/L	13694	ppb	13:40:12
2	Pb 220.353†	114206.0	113981.4	24460	µg/L	24460	ppb	13:40:12

2	S 181.975 Axial†	71.1	48.1	125.43	µg/L	125.43	ppb	13:40:32
2	Sb 206.836†	15468.4	15446.5	9596.4	µg/L	9596.4	ppb	13:40:12
2	Se 196.026†	7125.9	7107.2	9660	µg/L	9660	ppb	13:40:32
2	SiO2†	509923.9	507557.1	93878	µg/L	93878	ppb	13:40:10
2	Si 251.611†	1488995.9	1486989.8	43642	µg/L	43642	ppb	13:40:10
2	Sn 189.927†	23994.2	23970.4	9750.9	µg/L	9750.9	ppb	13:40:12
2	Sr 421.552†	829133.4	821142.2	9371.8	µg/L	9371.8	ppb	13:38:35
2	Ti 334.940†	5328418.9	5321133.5	9904.8	µg/L	9904.8	ppb	13:40:07
2	Tl 190.801†	8138.2	8145.8	9778.4	µg/L	9778.4	ppb	13:40:12
2	U 367.007†	232.5	-82.8	-68.581	µg/L	-68.581	ppb	13:40:12
2	V 292.402†	1375350.1	1373516.4	9844.5	µg/L	9844.5	ppb	13:40:10
2	Zn 213.857†	1112058.6	1110325.9	14094	µg/L	14094	ppb	13:40:10
3	Sc 361.383	1266146.1	1266146.1	100.50	%			13:40:38
3	Sc RADIAL	21751.9	21751.9	98.8	%			13:39:01
3	Y 371.029	724413.8	724413.8	97.219	%			13:40:38
3	Ag 328.068†	-2900.0	-3555.3	12.862	µg/L	12.862	ppb	13:40:40
3	Al 396.153Radial†	34.3	125.9	101.66	µg/L	101.66	ppb	13:39:01
3	As 188.979†	4953.9	4931.8	9962.0	µg/L	9962.0	ppb	13:41:00
3	B 249.677†	398045.1	395811.7	4704.9	µg/L	4704.9	ppb	13:40:38
3	Ba 233.527†	1043810.0	1038716.1	14629	µg/L	14629	ppb	13:40:38
3	Be 313.107†	6848217.8	6821125.4	2956.4	µg/L	2956.4	ppb	13:40:35
3	Ca 317.933Radial†	130.6	49.9	34.053	µg/L	34.053	ppb	13:39:21
3	Cd 226.502†	633560.4	630528.0	9850.0	µg/L	9850.0	ppb	13:40:38
3	Co 228.616†	323870.2	322362.4	9485.4	µg/L	9485.4	ppb	13:40:40
3	Cr 267.716†	1338549.6	1331791.8	24396	µg/L	24396	ppb	13:40:38
3	Cu 324.752†	3202213.0	3182470.8	21330	µg/L	21330	ppb	13:40:38
3	Fe 238.204 Radial†	-48.6	-77.3	-558.03	µg/L	-558.03	ppb	13:39:21
3	K 766.490 Radial†	229979.6	232183.4	287810	µg/L	287810	ppb	13:38:59
3	Mg 279.077 IEC†	-20.6	-25.1	-177.78	µg/L	-177.78	ppb	13:39:21
3	Mn 257.610†	3263527.2	3247137.5	9464.6	µg/L	9464.6	ppb	13:40:38
3	Mo 202.031†	84390.0	83980.4	9486.3	µg/L	9486.3	ppb	13:40:40
3	Na 589.592 Radial†	67.8	101.5	79.389	µg/L	79.389	ppb	13:39:01
3	Ni 231.604†	326207.1	324632.2	9683.5	µg/L	9683.5	ppb	13:40:40
3	P 214.914†	13310.0	13304.1	13822	µg/L	13822	ppb	13:40:40
3	Pb 220.353†	114443.4	113773.5	24416	µg/L	24416	ppb	13:40:40
3	S 181.975 Axial†	72.0	48.8	127.12	µg/L	127.12	ppb	13:41:00
3	Sb 206.836†	15604.7	15522.0	9635.9	µg/L	9635.9	ppb	13:40:40
3	Se 196.026†	7020.2	6974.2	9480	µg/L	9480	ppb	13:41:00
3	SiO2†	528296.7	523855.5	96893	µg/L	96893	ppb	13:40:38
3	Si 251.611†	1542351.2	1534289.3	45034	µg/L	45034	ppb	13:40:38
3	Sn 189.927†	24378.3	24259.2	9868.4	µg/L	9868.4	ppb	13:40:40
3	Sr 421.552†	853069.8	863630.5	9856.8	µg/L	9856.8	ppb	13:38:59
3	Ti 334.940†	5362440.1	5334262.0	9929.0	µg/L	9929.0	ppb	13:40:35
3	Tl 190.801†	8088.1	8064.3	9677.3	µg/L	9677.3	ppb	13:40:40
3	U 367.007†	278.3	-38.1	-56.845	µg/L	-56.845	ppb	13:40:40
3	V 292.402†	1423636.0	1416213.6	10147	µg/L	10147	ppb	13:40:38
3	Zn 213.857†	1151962.8	1145707.1	14545	µg/L	14545	ppb	13:40:38

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1265701.8	100.46	%	0.340				0.34%
Sc RADIAL	21920.6	99.5	%	1.24				1.24%
Y 371.029	723971.6	97.160	%	0.2692				0.28%
Ag 328.068†	-3482.9	13.020	µg/L	0.2618	13.020	ppb	0.2618	2.01%
Al 396.153Radial†	141.0	125.94	µg/L	21.377	125.94	ppb	21.377	16.97%
As 188.979†	4993.3	10081	µg/L	110.8	10081	ppb	110.8	1.10%
QC value within limits for As 188.979 Recovery = 100.81%								
B 249.677†	391010.3	4649.4	µg/L	85.23	4649.4	ppb	85.23	1.83%
QC value within limits for B 249.677 Recovery = 92.99%								
Ba 233.527†	1027617.6	14473	µg/L	261.3	14473	ppb	261.3	1.81%
QC value within limits for Ba 233.527 Recovery = 96.49%								
Be 313.107†	6787663.7	2941.9	µg/L	17.72	2941.9	ppb	17.72	0.60%
QC value within limits for Be 313.107 Recovery = 98.06%								
Ca 317.933Radial†	50.3	34.267	µg/L	3.2901	34.267	ppb	3.2901	9.60%
Cd 226.502†	623959.6	9747.5	µg/L	197.73	9747.5	ppb	197.73	2.03%
QC value within limits for Cd 226.502 Recovery = 97.47%								
Co 228.616†	322046.2	9476.1	µg/L	12.37	9476.1	ppb	12.37	0.13%
QC value within limits for Co 228.616 Recovery = 94.76%								
Cr 267.716†	1318012.4	24144	µg/L	429.0	24144	ppb	429.0	1.78%

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   QC value within limits for Cr 267.716  Recovery = 96.58%
Cu 324.752†          3148898.7       21105 µg/L         325.4       21105 ppb          325.4   1.54%
   QC value within limits for Cu 324.752  Recovery = 105.53%
Fe 238.204 Radial†        -75.8     -552.60 µg/L         4.797     -552.60 ppb          4.797   0.87%
K 766.490 Radial†     227132.3      281550 µg/L        6941.4      281550 ppb         6941.4   2.47%
   QC value within limits for K 766.490 Radial  Recovery = 93.85%
Mg 279.077 IEC†          -20.6     -146.11 µg/L        51.154     -146.11 ppb         51.154  35.01%
Mn 257.610†          3213639.8      9367.0 µg/L        161.17      9367.0 ppb         161.17   1.72%
   QC value within limits for Mn 257.610  Recovery = 93.67%
Mo 202.031†            83916.0      9479.1 µg/L         15.06      9479.1 ppb          15.06   0.16%
   QC value within limits for Mo 202.031  Recovery = 94.79%
Na 589.592 Radial†       101.8      79.580 µg/L        8.5087      79.580 ppb         8.5087  10.69%
Ni 231.604†           324621.9      9683.2 µg/L          5.42      9683.2 ppb           5.42   0.06%
   QC value within limits for Ni 231.604  Recovery = 96.83%
P 214.914†             13233.2       13749 µg/L          65.8       13749 ppb           65.8   0.48%
   QC value within limits for P 214.914  Recovery = 91.66%
Pb 220.353†           113813.7       24424 µg/L          32.7       24424 ppb           32.7   0.13%
   QC value within limits for Pb 220.353  Recovery = 97.70%
S 181.975 Axial†          46.9      121.03 µg/L         9.115      121.03 ppb          9.115   7.53%
Sb 206.836†            15495.7      9621.9 µg/L         22.12      9621.9 ppb          22.12   0.23%
   QC value within limits for Sb 206.836  Recovery = 96.22%
Se 196.026†             7043.7        9570 µg/L          91.1        9570 ppb           91.1   0.95%
   QC value within limits for Se 196.026  Recovery = 95.71%
SiO2†                 518127.5       95834 µg/L        1695.2       95834 ppb         1695.2   1.77%
   QC value less than the lower limit for SiO2  Recovery = 89.56%
Si 251.611†          1517690.5       44545 µg/L         783.6       44545 ppb          783.6   1.76%
   QC value less than the lower limit for Si 251.611  Recovery = 89.09%
Sn 189.927†            24145.7      9822.2 µg/L         62.65      9822.2 ppb          62.65   0.64%
   QC value within limits for Sn 189.927  Recovery = 98.22%
Sr 421.552†           844553.3      9639.0 µg/L        246.22      9639.0 ppb         246.22   2.55%
   QC value within limits for Sr 421.552  Recovery = 96.39%
Ti 334.940†          5306272.7      9876.9 µg/L         70.28      9876.9 ppb          70.28   0.71%
   QC value within limits for Ti 334.940  Recovery = 98.77%
Tl 190.801†             8097.2      9717.8 µg/L         53.50      9717.8 ppb          53.50   0.55%
   QC value within limits for Tl 190.801  Recovery = 97.18%
U 367.007†               -28.3     -53.957 µg/L       16.2604     -53.957 ppb        16.2604  30.14%
V 292.402†           1401250.6       10041 µg/L         170.4       10041 ppb          170.4   1.70%
   QC value within limits for V 292.402  Recovery = 100.41%
Zn 213.857†          1134047.1       14397 µg/L         261.8       14397 ppb          261.8   1.82%
   QC value within limits for Zn 213.857  Recovery = 95.98%
QC Failed.  Continue with analysis.
```

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Sequence No.: 13 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 13:41:08**
Analyst: **Data Type: Reprocessed on 11/6/2013 14:25:48**
Logged In Analyst (Original) : optima4
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	1237981.5	1237981.5	98.263	%			13:43:02
1	Sc RADIAL	20683.7	20683.7	93.9	%			13:41:40
1	Y 371.029	717040.9	717040.9	96.229	%			13:43:02
1	Ag 328.068†	75315.0	75976.7	509.10	µg/L	509.10	ppb	13:43:04
1	Al 396.153Radial†	2871.0	3148.0	5045.3	µg/L	5045.3	ppb	13:42:00
1	As 188.979†	249.5	256.4	512.72	µg/L	512.72	ppb	13:43:24
1	B 249.677†	41846.9	42327.2	491.93	µg/L	491.93	ppb	13:43:04
1	Ba 233.527†	35017.2	35718.8	503.43	µg/L	503.43	ppb	13:43:04
1	Be 313.107†	1093224.8	1119420.5	485.18	µg/L	485.18	ppb	13:43:02
1	Ca 317.933Radial†	7007.0	7378.1	5022.5	µg/L	5022.5	ppb	13:42:00
1	Cd 226.502†	31587.1	32255.0	503.21	µg/L	503.21	ppb	13:43:04
1	Co 228.616†	16829.0	17224.9	506.69	µg/L	506.69	ppb	13:43:04
1	Cr 267.716†	27053.2	27411.7	501.84	µg/L	501.84	ppb	13:43:04
1	Cu 324.752†	78051.1	75569.1	507.55	µg/L	507.55	ppb	13:43:04
1	Fe 238.204 Radial†	1461.7	1528.1	5198.4	µg/L	5198.4	ppb	13:42:00
1	K 766.490 Radial†	4455.9	4091.9	5074.3	µg/L	5074.3	ppb	13:41:40
1	Mg 279.077 IEC†	694.0	734.6	5201.6	µg/L	5201.6	ppb	13:42:00
1	Mn 257.610†	171157.3	173977.8	507.03	µg/L	507.03	ppb	13:43:04
1	Mo 202.031†	4331.1	4416.5	499.15	µg/L	499.15	ppb	13:43:24
1	Na 589.592 Radial†	11944.7	12750.5	9970.7	µg/L	9970.7	ppb	13:41:40
1	Ni 231.604†	16583.9	16919.9	504.68	µg/L	504.68	ppb	13:43:04
1	P 214.914†	2209.7	2308.8	2433.7	µg/L	2433.7	ppb	13:43:24
1	Pb 220.353†	2389.5	2329.3	500.63	µg/L	500.63	ppb	13:43:24
1	S 181.975 Axial†	321.6	304.3	991.68	µg/L	991.68	ppb	13:43:24
1	Sb 206.836†	760.9	769.1	486.11	µg/L	486.11	ppb	13:43:24
1	Se 196.026†	377.6	373.2	510	µg/L	510	ppb	13:43:24
1	SiO2†	30754.0	29476.4	5434.9	µg/L	5434.9	ppb	13:43:04
1	Si 251.611†	85010.1	86099.9	2528.2	µg/L	2528.2	ppb	13:43:04
1	Sn 189.927†	1184.6	1207.3	491.60	µg/L	491.60	ppb	13:43:24
1	Sr 421.552†	39998.5	42553.1	485.63	µg/L	485.63	ppb	13:41:40
1	Ti 334.940†	268175.8	271332.0	505.31	µg/L	505.31	ppb	13:43:04
1	Tl 190.801†	401.1	424.4	509.56	µg/L	509.56	ppb	13:43:24
1	U 367.007†	2104.0	1826.2	471.00	µg/L	471.00	ppb	13:43:04
1	V 292.402†	69966.2	70840.8	507.40	µg/L	507.40	ppb	13:43:04
1	Zn 213.857†	39539.4	39695.5	502.64	µg/L	502.64	ppb	13:43:04
2	Sc 361.383	1247182.4	1247182.4	98.993	%			13:43:26
2	Sc RADIAL	22058.6	22058.6	100	%			13:42:02
2	Y 371.029	722043.2	722043.2	96.901	%			13:43:26
2	Ag 328.068†	73372.5	73449.0	492.15	µg/L	492.15	ppb	13:43:28
2	Al 396.153Radial†	2840.6	2927.1	4691.2	µg/L	4691.2	ppb	13:42:22
2	As 188.979†	229.8	234.7	469.55	µg/L	469.55	ppb	13:43:48
2	B 249.677†	40336.9	40487.7	471.04	µg/L	471.04	ppb	13:43:28
2	Ba 233.527†	34118.5	34548.1	486.93	µg/L	486.93	ppb	13:43:28
2	Be 313.107†	1115158.5	1133369.5	491.23	µg/L	491.23	ppb	13:43:26
2	Ca 317.933Radial†	6992.5	6898.7	4696.1	µg/L	4696.1	ppb	13:42:22
2	Cd 226.502†	30572.9	30993.4	483.55	µg/L	483.55	ppb	13:43:28
2	Co 228.616†	16254.7	16518.4	485.89	µg/L	485.89	ppb	13:43:28
2	Cr 267.716†	26312.1	26460.0	484.41	µg/L	484.41	ppb	13:43:28
2	Cu 324.752†	76000.8	72912.0	489.68	µg/L	489.68	ppb	13:43:28
2	Fe 238.204 Radial†	1452.4	1421.9	4836.6	µg/L	4836.6	ppb	13:42:22
2	K 766.490 Radial†	4645.8	3985.8	4942.5	µg/L	4942.5	ppb	13:42:02
2	Mg 279.077 IEC†	696.7	691.2	4894.5	µg/L	4894.5	ppb	13:42:22
2	Mn 257.610†	165954.4	167437.0	487.97	µg/L	487.97	ppb	13:43:28
2	Mo 202.031†	4096.7	4147.2	468.72	µg/L	468.72	ppb	13:43:48
2	Na 589.592 Radial†	12679.9	12691.8	9924.8	µg/L	9924.8	ppb	13:42:02
2	Ni 231.604†	16141.3	16348.3	487.63	µg/L	487.63	ppb	13:43:28
2	P 214.914†	2073.1	2154.2	2270.6	µg/L	2270.6	ppb	13:43:48
2	Pb 220.353†	2257.4	2177.9	468.09	µg/L	468.09	ppb	13:43:48

2	S 181.975 Axial†	304.1	284.3	926.41 µg/L	926.41 ppb		13:43:48
2	Sb 206.836†	724.2	726.2	458.94 µg/L	458.94 ppb		13:43:48
2	Se 196.026†	361.0	353.6	483 µg/L	483 ppb		13:43:48
2	SiO2†	29971.8	28455.4	5246.6 µg/L	5246.6 ppb		13:43:28
2	Si 251.611†	82802.9	83231.9	2444.2 µg/L	2444.2 ppb		13:43:28
2	Sn 189.927†	1112.2	1125.3	458.20 µg/L	458.20 ppb		13:43:48
2	Sr 421.552†	42877.8	42773.2	488.14 µg/L	488.14 ppb		13:42:02
2	Ti 334.940†	260902.4	261971.2	487.87 µg/L	487.87 ppb		13:43:28
2	Tl 190.801†	367.2	387.2	464.60 µg/L	464.60 ppb		13:43:48
2	U 367.007†	2074.3	1780.3	460.42 µg/L	460.42 ppb		13:43:28
2	V 292.402†	67933.4	68262.0	488.76 µg/L	488.76 ppb		13:43:28
2	Zn 213.857†	38412.9	38260.6	484.48 µg/L	484.48 ppb		13:43:28
3	Sc 361.383	1192398.7	1192398.7	94.645 %			13:43:51
3	Sc RADIAL	19574.0	19574.0	88.9 %			13:42:24
3	Y 371.029	690610.0	690610.0	92.682 %			13:43:51
3	Ag 328.068†	74519.2	78066.0	523.07 µg/L	523.07 ppb		13:43:53
3	Al 396.153Radial†	2916.4	3372.3	5405.1 µg/L	5405.1 ppb		13:42:44
3	As 188.979†	248.8	265.4	530.70 µg/L	530.70 ppb		13:44:13
3	B 249.677†	41015.4	43076.7	499.50 µg/L	499.50 ppb		13:43:53
3	Ba 233.527†	34530.2	36566.6	515.38 µg/L	515.38 ppb		13:43:53
3	Be 313.107†	1054170.1	1120686.4	485.73 µg/L	485.73 ppb		13:43:51
3	Ca 317.933Radial†	7173.4	7988.3	5437.8 µg/L	5437.8 ppb		13:42:44
3	Cd 226.502†	31194.8	33069.4	515.88 µg/L	515.88 ppb		13:43:53
3	Co 228.616†	16585.6	17622.4	518.38 µg/L	518.38 ppb		13:43:53
3	Cr 267.716†	26701.6	28092.7	514.30 µg/L	514.30 ppb		13:43:53
3	Cu 324.752†	77146.6	77649.9	521.57 µg/L	521.57 ppb		13:43:53
3	Fe 238.204 Radial†	1487.5	1645.4	5598.2 µg/L	5598.2 ppb		13:42:44
3	K 766.490 Radial†	4269.9	4151.6	5148.6 µg/L	5148.6 ppb		13:42:24
3	Mg 279.077 IEC†	718.1	803.6	5690.1 µg/L	5690.1 ppb		13:42:44
3	Mn 257.610†	169320.1	178695.3	520.77 µg/L	520.77 ppb		13:43:53
3	Mo 202.031†	4313.1	4566.0	516.07 µg/L	516.07 ppb		13:44:13
3	Na 589.592 Radial†	11421.6	12883.0	10074 µg/L	10074 ppb		13:42:24
3	Ni 231.604†	16389.6	17359.8	517.80 µg/L	517.80 ppb		13:43:53
3	P 214.914†	2186.8	2370.6	2498.5 µg/L	2498.5 ppb		13:44:13
3	Pb 220.353†	2382.9	2415.3	519.10 µg/L	519.10 ppb		13:44:13
3	S 181.975 Axial†	317.4	312.4	1018.0 µg/L	1018.0 ppb		13:44:13
3	Sb 206.836†	759.0	796.6	503.59 µg/L	503.59 ppb		13:44:13
3	Se 196.026†	363.4	372.8	509 µg/L	509 ppb		13:44:13
3	SiO2†	30389.5	30287.8	5584.4 µg/L	5584.4 ppb		13:43:53
3	Si 251.611†	84142.9	88490.8	2598.4 µg/L	2598.4 ppb		13:43:53
3	Sn 189.927†	1182.0	1250.8	509.30 µg/L	509.30 ppb		13:44:13
3	Sr 421.552†	38709.2	43517.0	496.62 µg/L	496.62 ppb		13:42:24
3	Ti 334.940†	265490.0	278927.2	519.46 µg/L	519.46 ppb		13:43:53
3	Tl 190.801†	383.7	421.7	506.14 µg/L	506.14 ppb		13:44:13
3	U 367.007†	2155.0	1961.9	506.05 µg/L	506.05 ppb		13:43:53
3	V 292.402†	69010.1	72552.6	519.78 µg/L	519.78 ppb		13:43:53
3	Zn 213.857†	39004.8	40668.9	514.93 µg/L	514.93 ppb		13:43:53

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1225854.2	97.300	%	2.3285				2.39%
Sc RADIAL	20772.1	94.3	%	5.65				5.99%
Y 371.029	709898.0	95.271	%	2.2667				2.38%
Ag 328.068†	75830.6	508.11	µg/L	15.482	508.11	ppb	15.482	3.05%
QC value within limits for Ag 328.068 Recovery = 101.62%								
Al 396.153Radial†	3149.1	5047.2	µg/L	356.94	5047.2	ppb	356.94	7.07%
QC value within limits for Al 396.153Radial Recovery = 100.94%								
As 188.979†	252.2	504.32	µg/L	31.429	504.32	ppb	31.429	6.23%
QC value within limits for As 188.979 Recovery = 100.86%								
B 249.677†	41963.9	487.49	µg/L	14.744	487.49	ppb	14.744	3.02%
QC value within limits for B 249.677 Recovery = 97.50%								
Ba 233.527†	35611.2	501.91	µg/L	14.286	501.91	ppb	14.286	2.85%
QC value within limits for Ba 233.527 Recovery = 100.38%								
Be 313.107†	1124492.1	487.38	µg/L	3.343	487.38	ppb	3.343	0.69%
QC value within limits for Be 313.107 Recovery = 97.48%								
Ca 317.933Radial†	7421.7	5052.1	µg/L	371.75	5052.1	ppb	371.75	7.36%
QC value within limits for Ca 317.933Radial Recovery = 101.04%								
Cd 226.502†	32105.9	500.88	µg/L	16.290	500.88	ppb	16.290	3.25%
QC value within limits for Cd 226.502 Recovery = 100.18%								

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Co 228.616†            17121.9      503.66 µg/L        16.456      503.66 ppb         16.456   3.27%
   QC value within limits for Co 228.616  Recovery = 100.73%
Cr 267.716†            27321.5      500.18 µg/L        15.014      500.18 ppb         15.014   3.00%
   QC value within limits for Cr 267.716  Recovery = 100.04%
Cu 324.752†            75377.0      506.27 µg/L        15.982      506.27 ppb         15.982   3.16%
   QC value within limits for Cu 324.752  Recovery = 101.25%
Fe 238.204 Radial†      1531.8      5211.0 µg/L        380.97      5211.0 ppb         380.97   7.31%
   QC value within limits for Fe 238.204 Radial  Recovery = 104.22%
K 766.490 Radial†       4076.4      5055.1 µg/L        104.36      5055.1 ppb         104.36   2.06%
   QC value within limits for K 766.490 Radial  Recovery = 101.10%
Mg 279.077 IEC†          743.2      5262.0 µg/L        401.26      5262.0 ppb         401.26   7.63%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.24%
Mn 257.610†           173370.1      505.26 µg/L        16.473      505.26 ppb         16.473   3.26%
   QC value within limits for Mn 257.610  Recovery = 101.05%
Mo 202.031†             4376.5      494.65 µg/L        23.992      494.65 ppb         23.992   4.85%
   QC value within limits for Mo 202.031  Recovery = 98.93%
Na 589.592 Radial†     12775.1      9989.9 µg/L         76.58      9989.9 ppb          76.58   0.77%
   QC value within limits for Na 589.592 Radial  Recovery = 99.90%
Ni 231.604†            16876.0      503.37 µg/L        15.127      503.37 ppb         15.127   3.01%
   QC value within limits for Ni 231.604  Recovery = 100.67%
P 214.914†              2277.9      2400.9 µg/L        117.41      2400.9 ppb         117.41   4.89%
   QC value within limits for P 214.914  Recovery = 96.04%
Pb 220.353†             2307.5      495.94 µg/L        25.824      495.94 ppb         25.824   5.21%
   QC value within limits for Pb 220.353  Recovery = 99.19%
S 181.975 Axial†         300.4      978.68 µg/L        47.133      978.68 ppb         47.133   4.82%
   QC value within limits for S 181.975 Axial  Recovery = 97.87%
Sb 206.836†              764.0      482.88 µg/L        22.502      482.88 ppb         22.502   4.66%
   QC value within limits for Sb 206.836  Recovery = 96.58%
Se 196.026†              366.5         501 µg/L          15.4         501 ppb           15.4   3.08%
   QC value within limits for Se 196.026  Recovery = 100.11%
SiO2†                  29406.5      5422.0 µg/L        169.29      5422.0 ppb         169.29   3.12%
   QC value within limits for SiO2  Recovery = 101.39%
Si 251.611†            85940.8      2523.6 µg/L         77.23      2523.6 ppb          77.23   3.06%
   QC value within limits for Si 251.611  Recovery = 100.94%
Sn 189.927†             1194.5      486.37 µg/L        25.946      486.37 ppb         25.946   5.33%
   QC value within limits for Sn 189.927  Recovery = 97.27%
Sr 421.552†            42947.7      490.13 µg/L         5.762      490.13 ppb          5.762   1.18%
   QC value within limits for Sr 421.552  Recovery = 98.03%
Ti 334.940†           270743.4      504.22 µg/L        15.823      504.22 ppb         15.823   3.14%
   QC value within limits for Ti 334.940  Recovery = 100.84%
Tl 190.801†              411.1      493.43 µg/L        25.029      493.43 ppb         25.029   5.07%
   QC value within limits for Tl 190.801  Recovery = 98.69%
U 367.007†              1856.2      479.16 µg/L        23.884      479.16 ppb         23.884   4.98%
   QC value within limits for U 367.007  Recovery = 95.83%
V 292.402†             70551.8      505.31 µg/L        15.614      505.31 ppb         15.614   3.09%
   QC value within limits for V 292.402  Recovery = 101.06%
Zn 213.857†            39541.7      500.68 µg/L        15.316      500.68 ppb         15.316   3.06%
   QC value within limits for Zn 213.857  Recovery = 100.14%
All analyte(s) passed QC.
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Sequence No.: 14
Sample ID: CCB
Analyst:
Logged In Analyst (Original) : optima4
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/6/2013 13:44:21
Data Type: Reprocessed on 11/6/2013 14:25:49

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc 361.383	1255529.5	1255529.5	99.656	%			13:47:06
1	Sc RADIAL	21419.9	21419.9	97.3	%			13:45:08
1	Y 371.029	741168.2	741168.2	99.467	%			13:47:06
1	Ag 328.068†	634.3	-33.2	-0.2161	µg/L	-0.2161	ppb	13:47:08
1	Al 396.153Radial†	-87.0	1.7	2.7001	µg/L	2.7001	ppb	13:45:08
1	As 188.979†	-2.4	0.2	0.3164	µg/L	0.3164	ppb	13:47:28
1	B 249.677†	555.5	298.0	3.5548	µg/L	3.5548	ppb	13:47:28
1	Ba 233.527†	-65.0	17.3	0.2424	µg/L	0.2424	ppb	13:47:28
1	Be 313.107†	-7243.8	-399.7	-0.1733	µg/L	-0.1733	ppb	13:47:08
1	Ca 317.933Radial†	76.7	-3.4	-2.3098	µg/L	-2.3098	ppb	13:45:28
1	Cd 226.502†	-63.5	45.7	0.7135	µg/L	0.7135	ppb	13:47:28
1	Co 228.616†	-109.1	-11.1	-0.3247	µg/L	-0.3247	ppb	13:47:28
1	Cr 267.716†	123.5	4.2	0.0811	µg/L	0.0811	ppb	13:47:28
1	Cu 324.752†	3953.3	105.1	0.7008	µg/L	0.7008	ppb	13:47:08
1	Fe 238.204 Radial†	27.8	0.5	1.6524	µg/L	1.6524	ppb	13:45:28
1	K 766.490 Radial†	713.4	81.1	100.44	µg/L	100.44	ppb	13:45:08
1	Mg 279.077 IEC†	5.0	0.8	5.9656	µg/L	5.9656	ppb	13:45:28
1	Mn 257.610†	206.2	1.7	0.0048	µg/L	0.0048	ppb	13:47:28
1	Mo 202.031†	-1.2	7.7	0.8682	µg/L	0.8682	ppb	13:47:28
1	Na 589.592 Radial†	11.7	45.0	35.158	µg/L	35.158	ppb	13:45:08
1	Ni 231.604†	-70.3	-27.7	-0.8252	µg/L	-0.8252	ppb	13:47:28
1	P 214.914†	-61.3	-1.4	-1.5255	µg/L	-1.5255	ppb	13:47:28
1	Pb 220.353†	105.6	3.5	0.7583	µg/L	0.7583	ppb	13:47:28
1	S 181.975 Axial†	25.7	2.8	9.2994	µg/L	9.2994	ppb	13:47:28
1	Sb 206.836†	3.4	-1.9	-1.2265	µg/L	-1.2265	ppb	13:47:28
1	Se 196.026†	15.5	4.5	6.11	µg/L	6.11	ppb	13:47:28
1	SiO2†	1850.6	35.8	6.5844	µg/L	6.5844	ppb	13:47:28
1	Si 251.611†	476.6	65.1	1.9038	µg/L	1.9038	ppb	13:47:28
1	Sn 189.927†	-2.5	-0.7	-0.2862	µg/L	-0.2862	ppb	13:47:28
1	Sr 421.552†	36.6	4.0	0.0458	µg/L	0.0458	ppb	13:45:08
1	Ti 334.940†	1620.7	41.5	0.0808	µg/L	0.0808	ppb	13:47:08
1	Tl 190.801†	-7.2	9.0	10.970	µg/L	10.970	ppb	13:47:28
1	U 367.007†	288.4	-25.6	-7.0383	µg/L	-7.0383	ppb	13:47:08
1	V 292.402†	310.9	-50.3	-0.3478	µg/L	-0.3478	ppb	13:47:08
1	Zn 213.857†	600.4	59.6	0.7639	µg/L	0.7639	ppb	13:47:28
2	Sc 361.383	1262154.7	1262154.7	100.18	%			13:47:30
2	Sc RADIAL	21644.6	21644.6	98.3	%			13:45:48
2	Y 371.029	744857.0	744857.0	99.962	%			13:47:30
2	Ag 328.068†	639.8	-31.0	-0.1971	µg/L	-0.1971	ppb	13:47:32
2	Al 396.153Radial†	-97.4	-7.9	-12.718	µg/L	-12.718	ppb	13:45:48
2	As 188.979†	-7.9	-5.4	-10.617	µg/L	-10.617	ppb	13:47:52
2	B 249.677†	533.9	273.5	3.2519	µg/L	3.2519	ppb	13:47:52
2	Ba 233.527†	-74.3	8.4	0.1173	µg/L	0.1173	ppb	13:47:52
2	Be 313.107†	-7339.2	-456.8	-0.1980	µg/L	-0.1980	ppb	13:47:32
2	Ca 317.933Radial†	84.0	3.2	2.1782	µg/L	2.1782	ppb	13:46:08
2	Cd 226.502†	-90.7	18.9	0.2948	µg/L	0.2948	ppb	13:47:52
2	Co 228.616†	-85.7	12.8	0.3779	µg/L	0.3779	ppb	13:47:52
2	Cr 267.716†	147.0	27.0	0.5025	µg/L	0.5025	ppb	13:47:52
2	Cu 324.752†	4063.9	194.7	1.3005	µg/L	1.3005	ppb	13:47:32
2	Fe 238.204 Radial†	29.6	2.0	6.7088	µg/L	6.7088	ppb	13:46:08
2	K 766.490 Radial†	700.5	60.4	74.836	µg/L	74.836	ppb	13:45:48
2	Mg 279.077 IEC†	4.9	0.7	4.8217	µg/L	4.8217	ppb	13:46:08
2	Mn 257.610†	226.6	20.9	0.0609	µg/L	0.0609	ppb	13:47:52
2	Mo 202.031†	-8.4	0.5	0.0532	µg/L	0.0532	ppb	13:47:52
2	Na 589.592 Radial†	-37.9	-5.6	-4.4042	µg/L	-4.4042	ppb	13:45:48
2	Ni 231.604†	-51.6	-8.6	-0.2577	µg/L	-0.2577	ppb	13:47:52
2	P 214.914†	-71.9	-11.7	-12.432	µg/L	-12.432	ppb	13:47:52
2	Pb 220.353†	116.8	14.2	3.0445	µg/L	3.0445	ppb	13:47:52

2	S 181.975 Axial†	22.3	-0.7	-2.2967	µg/L	-2.2967	ppb	13:47:52
2	Sb 206.836†	7.2	1.9	1.1794	µg/L	1.1794	ppb	13:47:52
2	Se 196.026†	10.0	-1.1	-1.49	µg/L	-1.49	ppb	13:47:52
2	SiO2†	1865.2	40.6	7.4797	µg/L	7.4797	ppb	13:47:52
2	Si 251.611†	479.9	65.9	1.9385	µg/L	1.9385	ppb	13:47:52
2	Sn 189.927†	1.4	3.3	1.3299	µg/L	1.3299	ppb	13:47:52
2	Sr 421.552†	29.2	-3.9	-0.0447	µg/L	-0.0447	ppb	13:45:48
2	Ti 334.940†	1605.4	17.7	0.0390	µg/L	0.0390	ppb	13:47:32
2	Tl 190.801†	-11.2	5.0	6.1136	µg/L	6.1136	ppb	13:47:52
2	U 367.007†	272.6	-42.9	-11.808	µg/L	-11.808	ppb	13:47:32
2	V 292.402†	351.2	-11.7	-0.0865	µg/L	-0.0865	ppb	13:47:32
2	Zn 213.857†	598.1	54.1	0.6896	µg/L	0.6896	ppb	13:47:52
3	Sc 361.383	1254690.5	1254690.5	99.589	%			13:47:54
3	Sc RADIAL	21905.8	21905.8	99.5	%			13:46:28
3	Y 371.029	740838.1	740838.1	99.423	%			13:47:54
3	Ag 328.068†	594.2	-73.1	-0.4921	µg/L	-0.4921	ppb	13:47:56
3	Al 396.153Radial†	-96.4	-5.8	-9.2512	µg/L	-9.2512	ppb	13:46:28
3	As 188.979†	-4.6	-2.1	-4.0641	µg/L	-4.0641	ppb	13:48:16
3	B 249.677†	520.3	263.0	3.1564	µg/L	3.1564	ppb	13:48:16
3	Ba 233.527†	-83.7	-1.5	-0.0228	µg/L	-0.0228	ppb	13:48:16
3	Be 313.107†	-7340.1	-501.3	-0.2173	µg/L	-0.2173	ppb	13:47:56
3	Ca 317.933Radial†	82.1	0.3	0.1709	µg/L	0.1709	ppb	13:46:48
3	Cd 226.502†	-89.7	19.4	0.3019	µg/L	0.3019	ppb	13:48:16
3	Co 228.616†	-104.9	-7.0	-0.2047	µg/L	-0.2047	ppb	13:48:16
3	Cr 267.716†	132.2	13.0	0.2371	µg/L	0.2371	ppb	13:48:16
3	Cu 324.752†	3967.1	121.6	0.8161	µg/L	0.8161	ppb	13:47:56
3	Fe 238.204 Radial†	29.3	1.3	4.5502	µg/L	4.5502	ppb	13:46:48
3	K 766.490 Radial†	658.6	9.8	12.080	µg/L	12.080	ppb	13:46:28
3	Mg 279.077 IEC†	4.8	0.5	3.5605	µg/L	3.5605	ppb	13:46:48
3	Mn 257.610†	209.8	5.4	0.0157	µg/L	0.0157	ppb	13:48:16
3	Mo 202.031†	-2.5	6.3	0.7130	µg/L	0.7130	ppb	13:48:16
3	Na 589.592 Radial†	-12.3	20.5	16.051	µg/L	16.051	ppb	13:46:28
3	Ni 231.604†	-49.4	-6.8	-0.2027	µg/L	-0.2027	ppb	13:48:16
3	P 214.914†	-78.1	-18.4	-19.570	µg/L	-19.570	ppb	13:48:16
3	Pb 220.353†	93.4	-8.7	-1.8612	µg/L	-1.8612	ppb	13:48:16
3	S 181.975 Axial†	20.3	-2.5	-8.2778	µg/L	-8.2778	ppb	13:48:16
3	Sb 206.836†	7.3	2.0	1.2932	µg/L	1.2932	ppb	13:48:16
3	Se 196.026†	15.4	4.4	5.95	µg/L	5.95	ppb	13:48:16
3	SiO2†	1849.7	36.1	6.6471	µg/L	6.6471	ppb	13:48:16
3	Si 251.611†	468.1	56.9	1.6647	µg/L	1.6647	ppb	13:48:16
3	Sn 189.927†	7.5	9.4	3.8174	µg/L	3.8174	ppb	13:48:16
3	Sr 421.552†	48.4	15.0	0.1710	µg/L	0.1710	ppb	13:46:28
3	Ti 334.940†	1579.0	0.7	0.0001	µg/L	0.0001	ppb	13:47:56
3	Tl 190.801†	-10.4	5.8	7.0833	µg/L	7.0833	ppb	13:48:16
3	U 367.007†	321.9	8.2	2.2171	µg/L	2.2171	ppb	13:47:56
3	V 292.402†	266.3	-94.9	-0.6579	µg/L	-0.6579	ppb	13:47:56
3	Zn 213.857†	591.7	51.2	0.6534	µg/L	0.6534	ppb	13:48:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1257458.3	99.809	%	0.3245				0.33%
Sc RADIAL	21656.8	98.3	%	1.10				1.12%
Y 371.029	742287.8	99.618	%	0.2994				0.30%
Ag 328.068†	-45.8	-0.3018	µg/L	0.16511	-0.3018	ppb	0.16511	54.72%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-4.0	-6.4230	µg/L	8.08873	-6.4230	ppb	8.08873	125.93%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.4	-4.7881	µg/L	5.50232	-4.7881	ppb	5.50232	114.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	278.1	3.3210	µg/L	0.20798	3.3210	ppb	0.20798	6.26%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.1	0.1123	µg/L	0.13267	0.1123	ppb	0.13267	118.12%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-452.6	-0.1962	µg/L	0.02206	-0.1962	ppb	0.02206	11.25%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	0.0	0.0131	µg/L	2.24812	0.0131	ppb	2.24812	>999.9%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	28.0	0.4367	µg/L	0.23971	0.4367	ppb	0.23971	54.89%
QC value within limits for Cd 226.502 Recovery = Not calculated								

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Co 228.616†                -1.7     -0.0505 µg/L       0.37584     -0.0505 ppb        0.37584 744.36%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                14.7      0.2735 µg/L       0.21303      0.2735 ppb        0.21303  77.88%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               140.5      0.9391 µg/L       0.31822      0.9391 ppb        0.31822  33.88%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          1.3      4.3038 µg/L       2.53718      4.3038 ppb        2.53718  58.95%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          50.4      62.452 µg/L       45.4631      62.452 ppb        45.4631  72.80%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.7      4.7826 µg/L       1.20303      4.7826 ppb        1.20303  25.15%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                 9.3      0.0271 µg/L       0.02976      0.0271 ppb        0.02976 109.79%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 4.8      0.5448 µg/L       0.43274      0.5448 ppb        0.43274  79.43%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         20.0      15.602 µg/L       19.7849      15.602 ppb        19.7849 126.81%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -14.4     -0.4285 µg/L       0.34467     -0.4285 ppb        0.34467  80.43%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -10.5     -11.176 µg/L        9.0874     -11.176 ppb         9.0874  81.31%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 3.0      0.6472 µg/L       2.45472      0.6472 ppb        2.45472 379.30%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -0.1     -0.4250 µg/L       8.93680     -0.4250 ppb        8.93680 >999.9%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 0.7      0.4154 µg/L       1.42306      0.4154 ppb        1.42306 342.60%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 2.6        3.53 µg/L         4.342        3.53 ppb          4.342 123.15%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      37.5      6.9038 µg/L       0.49980      6.9038 ppb        0.49980   7.24%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                62.6      1.8357 µg/L       0.14911      1.8357 ppb        0.14911   8.12%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 4.0      1.6204 µg/L       2.06717      1.6204 ppb        2.06717 127.57%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 5.0      0.0574 µg/L       0.10827      0.0574 ppb        0.10827 188.77%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                20.0      0.0399 µg/L       0.04033      0.0399 ppb        0.04033 100.96%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 6.6      8.0557 µg/L       2.57023      8.0557 ppb        2.57023  31.91%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -20.1     -5.5429 µg/L       7.13091     -5.5429 ppb        7.13091 128.65%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -52.3     -0.3641 µg/L       0.28602     -0.3641 ppb        0.28602  78.56%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                55.0      0.7023 µg/L       0.05633      0.7023 ppb        0.05633   8.02%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 2 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 14:48:20**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21381.2	21381.2	97.1	%			14:48:52
1	Al 396.153Radial†	3072.7	3256.0	5218.9	µg/L	5218.9	ppb	14:49:12
1	Ca 317.933Radial†	7183.7	7316.7	4980.7	µg/L	4980.7	ppb	14:49:12
1	Fe 238.204 Radial†	1492.0	1508.6	5132.8	µg/L	5132.8	ppb	14:49:12
1	K 766.490 Radial†	4467.4	3949.0	4896.4	µg/L	4896.4	ppb	14:48:52
1	Mg 279.077 IEC†	718.7	736.0	5211.4	µg/L	5211.4	ppb	14:49:12
1	Na 589.592 Radial†	13086.9	13512.1	10566	µg/L	10566	ppb	14:48:52
1	Sr 421.552†	41613.4	42827.1	488.75	µg/L	488.75	ppb	14:48:52
1	Sc 361.383	1232868.4	1232868.4	97.857	%			14:50:14
1	Y 371.029	714195.7	714195.7	95.848	%			14:50:14
1	Ag 328.068†	71894.8	72799.5	487.79	µg/L	487.79	ppb	14:50:16
1	As 188.979†	219.0	226.3	452.90	µg/L	452.90	ppb	14:50:36
1	B 249.677†	38741.1	39330.1	455.90	µg/L	455.90	ppb	14:50:16
1	Ba 233.527†	33095.9	33903.2	477.85	µg/L	477.85	ppb	14:50:16
1	Be 313.107†	1087192.8	1117870.4	484.51	µg/L	484.51	ppb	14:50:14
1	Cd 226.502†	29654.2	30413.1	474.44	µg/L	474.44	ppb	14:50:16
1	Co 228.616†	15730.3	16173.1	475.73	µg/L	475.73	ppb	14:50:16
1	Cr 267.716†	25572.7	26013.0	476.24	µg/L	476.24	ppb	14:50:16
1	Cu 324.752†	74175.6	71938.1	483.19	µg/L	483.19	ppb	14:50:16
1	Mn 257.610†	161494.6	164826.0	480.35	µg/L	480.35	ppb	14:50:16
1	Mo 202.031†	3954.4	4049.9	457.74	µg/L	457.74	ppb	14:50:36
1	Ni 231.604†	15668.1	16054.1	478.85	µg/L	478.85	ppb	14:50:16
1	P 214.914†	2038.4	2143.1	2258.7	µg/L	2258.7	ppb	14:50:36
1	Pb 220.353†	2158.6	2103.4	452.11	µg/L	452.11	ppb	14:50:36
1	S 181.975 Axial†	292.9	276.4	900.23	µg/L	900.23	ppb	14:50:36
1	Sb 206.836†	713.1	723.4	457.11	µg/L	457.11	ppb	14:50:36
1	Se 196.026†	344.0	340.4	465	µg/L	465	ppb	14:50:36
1	SiO2†	28923.3	27735.4	5113.9	µg/L	5113.9	ppb	14:50:16
1	Si 251.611†	80280.2	81625.2	2397.1	µg/L	2397.1	ppb	14:50:16
1	Sn 189.927†	1094.9	1120.7	456.35	µg/L	456.35	ppb	14:50:36
1	Ti 334.940†	254065.6	258044.6	480.58	µg/L	480.58	ppb	14:50:16
1	Tl 190.801†	359.7	383.8	460.64	µg/L	460.64	ppb	14:50:36
1	U 367.007†	2028.5	1757.9	452.74	µg/L	452.74	ppb	14:50:16
1	V 292.402†	66521.7	67616.2	484.10	µg/L	484.10	ppb	14:50:16
1	Zn 213.857†	37097.7	37367.2	473.10	µg/L	473.10	ppb	14:50:16
2	Sc RADIAL	21163.3	21163.3	96.1	%			14:49:14
2	Al 396.153Radial†	3100.6	3317.6	5317.5	µg/L	5317.5	ppb	14:49:34
2	Ca 317.933Radial†	7246.5	7458.2	5077.0	µg/L	5077.0	ppb	14:49:34
2	Fe 238.204 Radial†	1511.6	1544.8	5256.4	µg/L	5256.4	ppb	14:49:34
2	K 766.490 Radial†	4280.1	3801.5	4714.0	µg/L	4714.0	ppb	14:49:14
2	Mg 279.077 IEC†	725.6	750.8	5316.2	µg/L	5316.2	ppb	14:49:34
2	Na 589.592 Radial†	12444.3	12982.1	10152	µg/L	10152	ppb	14:49:14
2	Sr 421.552†	39871.5	41455.7	473.10	µg/L	473.10	ppb	14:49:14
2	Sc 361.383	1243136.7	1243136.7	98.672	%			14:50:38
2	Y 371.029	720702.7	720702.7	96.721	%			14:50:38
2	Ag 328.068†	71835.1	72132.2	483.34	µg/L	483.34	ppb	14:50:40
2	As 188.979†	234.9	240.6	481.17	µg/L	481.17	ppb	14:51:00
2	B 249.677†	38635.4	38895.9	450.25	µg/L	450.25	ppb	14:50:40
2	Ba 233.527†	32997.3	33524.0	472.50	µg/L	472.50	ppb	14:50:40
2	Be 313.107†	1016349.2	1036896.5	449.42	µg/L	449.42	ppb	14:50:38
2	Cd 226.502†	29502.1	30008.7	468.11	µg/L	468.11	ppb	14:50:40
2	Co 228.616†	15713.9	16023.7	471.36	µg/L	471.36	ppb	14:50:40
2	Cr 267.716†	25590.8	25815.5	472.63	µg/L	472.63	ppb	14:50:40
2	Cu 324.752†	74608.3	71750.5	481.93	µg/L	481.93	ppb	14:50:40
2	Mn 257.610†	161275.4	163240.6	475.73	µg/L	475.73	ppb	14:50:40
2	Mo 202.031†	4195.9	4261.2	481.62	µg/L	481.62	ppb	14:51:00
2	Ni 231.604†	15625.0	15878.1	473.60	µg/L	473.60	ppb	14:50:40
2	P 214.914†	2157.8	2246.9	2368.4	µg/L	2368.4	ppb	14:51:00
2	Pb 220.353†	2304.3	2232.9	479.93	µg/L	479.93	ppb	14:51:00

2	S 181.975 Axial†	306.2	287.4	936.37 µg/L	936.37 ppb		14:51:00
2	Sb 206.836†	748.6	753.4	476.30 µg/L	476.30 ppb		14:51:00
2	Se 196.026†	371.6	365.5	499 µg/L	499 ppb		14:51:00
2	SiO2†	28993.3	27562.2	5082.0 µg/L	5082.0 ppb		14:50:40
2	Si 251.611†	80173.1	80839.0	2373.6 µg/L	2373.6 ppb		14:50:40
2	Sn 189.927†	1160.8	1178.3	479.79 µg/L	479.79 ppb		14:51:00
2	Ti 334.940†	254211.2	256047.7	476.87 µg/L	476.87 ppb		14:50:40
2	Tl 190.801†	373.3	394.6	473.79 µg/L	473.79 ppb		14:51:00
2	U 367.007†	1995.7	1707.6	438.32 µg/L	438.32 ppb		14:50:40
2	V 292.402†	66370.1	66901.0	479.35 µg/L	479.35 ppb		14:50:40
2	Zn 213.857†	36851.7	36804.7	465.94 µg/L	465.94 ppb		14:50:40
3	Sc RADIAL	21251.9	21251.9	96.5 %			14:49:36
3	Al 396.153Radial†	3049.9	3251.6	5211.8 µg/L	5211.8 ppb		14:49:56
3	Ca 317.933Radial†	7138.4	7314.8	4979.4 µg/L	4979.4 ppb		14:49:56
3	Fe 238.204 Radial†	1488.5	1514.3	5152.1 µg/L	5152.1 ppb		14:49:56
3	K 766.490 Radial†	4445.0	3953.7	4902.3 µg/L	4902.3 ppb		14:49:36
3	Mg 279.077 IEC†	711.6	733.1	5191.2 µg/L	5191.2 ppb		14:49:56
3	Na 589.592 Radial†	13116.8	13625.0	10655 µg/L	10655 ppb		14:49:36
3	Sr 421.552†	41856.2	43339.5	494.60 µg/L	494.60 ppb		14:49:36
3	Sc 361.383	1223335.5	1223335.5	97.100 %			14:51:02
3	Y 371.029	708363.8	708363.8	95.065 %			14:51:02
3	Ag 328.068†	72017.0	73497.9	492.45 µg/L	492.45 ppb		14:51:05
3	As 188.979†	225.4	234.6	469.42 µg/L	469.42 ppb		14:51:25
3	B 249.677†	38852.4	39753.2	460.98 µg/L	460.98 ppb		14:51:05
3	Ba 233.527†	33115.0	34186.5	481.84 µg/L	481.84 ppb		14:51:05
3	Be 313.107†	1087919.6	1127276.5	488.59 µg/L	488.59 ppb		14:51:02
3	Cd 226.502†	29529.1	30520.4	476.12 µg/L	476.12 ppb		14:51:05
3	Co 228.616†	15882.9	16455.6	484.04 µg/L	484.04 ppb		14:51:05
3	Cr 267.716†	25576.4	26220.5	480.02 µg/L	480.02 ppb		14:51:05
3	Cu 324.752†	74447.0	72808.3	489.04 µg/L	489.04 ppb		14:51:05
3	Mn 257.610†	161632.6	166254.1	484.52 µg/L	484.52 ppb		14:51:05
3	Mo 202.031†	3971.3	4098.7	463.26 µg/L	463.26 ppb		14:51:25
3	Ni 231.604†	15698.9	16210.6	483.52 µg/L	483.52 ppb		14:51:05
3	P 214.914†	2052.4	2173.7	2291.0 µg/L	2291.0 ppb		14:51:25
3	Pb 220.353†	2180.1	2142.7	460.53 µg/L	460.53 ppb		14:51:25
3	S 181.975 Axial†	294.5	280.4	913.48 µg/L	913.48 ppb		14:51:25
3	Sb 206.836†	725.1	741.4	468.55 µg/L	468.55 ppb		14:51:25
3	Se 196.026†	345.4	344.6	471 µg/L	471 ppb		14:51:25
3	SiO2†	29074.6	28121.6	5185.1 µg/L	5185.1 ppb		14:51:05
3	Si 251.611†	80536.5	82528.4	2423.6 µg/L	2423.6 ppb		14:51:05
3	Sn 189.927†	1088.0	1122.4	457.03 µg/L	457.03 ppb		14:51:25
3	Ti 334.940†	254917.7	260945.4	485.97 µg/L	485.97 ppb		14:51:05
3	Tl 190.801†	349.8	376.5	451.68 µg/L	451.68 ppb		14:51:25
3	U 367.007†	2080.3	1827.4	471.68 µg/L	471.68 ppb		14:51:05
3	V 292.402†	66327.6	67946.1	486.51 µg/L	486.51 ppb		14:51:05
3	Zn 213.857†	37093.4	37658.2	476.79 µg/L	476.79 ppb		14:51:05

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1233113.5	97.876	%	0.7860				0.80%
Sc RADIAL	21265.5	96.6	%	0.50				0.52%
Y 371.029	714420.7	95.878	%	0.8284				0.86%
Ag 328.068†	72809.9	487.86	µg/L	4.557	487.86	ppb	4.557	0.93%
QC value within limits for Ag 328.068 Recovery = 97.57%								
Al 396.153Radial†	3275.0	5249.4	µg/L	59.11	5249.4	ppb	59.11	1.13%
QC value within limits for Al 396.153Radial Recovery = 104.99%								
As 188.979†	233.8	467.83	µg/L	14.203	467.83	ppb	14.203	3.04%
QC value within limits for As 188.979 Recovery = 93.57%								
B 249.677†	39326.4	455.71	µg/L	5.366	455.71	ppb	5.366	1.18%
QC value within limits for B 249.677 Recovery = 91.14%								
Ba 233.527†	33871.3	477.39	µg/L	4.684	477.39	ppb	4.684	0.98%
QC value within limits for Ba 233.527 Recovery = 95.48%								
Be 313.107†	1094014.5	474.17	µg/L	21.536	474.17	ppb	21.536	4.54%
QC value within limits for Be 313.107 Recovery = 94.83%								
Ca 317.933Radial†	7363.3	5012.3	µg/L	55.99	5012.3	ppb	55.99	1.12%
QC value within limits for Ca 317.933Radial Recovery = 100.25%								
Cd 226.502†	30314.1	472.89	µg/L	4.224	472.89	ppb	4.224	0.89%
QC value within limits for Cd 226.502 Recovery = 94.58%								
Co 228.616†	16217.5	477.04	µg/L	6.440	477.04	ppb	6.440	1.35%

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   QC value within limits for Co 228.616  Recovery = 95.41%
Cr 267.716†            26016.3      476.30 µg/L         3.697      476.30 ppb          3.697   0.78%
   QC value within limits for Cr 267.716  Recovery = 95.26%
Cu 324.752†            72165.6      484.72 µg/L         3.791      484.72 ppb          3.791   0.78%
   QC value within limits for Cu 324.752  Recovery = 96.94%
Fe 238.204 Radial†      1522.6      5180.4 µg/L         66.48      5180.4 ppb          66.48   1.28%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.61%
K 766.490 Radial†       3901.4      4837.5 µg/L        107.08      4837.5 ppb         107.08   2.21%
   QC value within limits for K 766.490 Radial  Recovery = 96.75%
Mg 279.077 IEC†          740.0      5239.6 µg/L         67.10      5239.6 ppb          67.10   1.28%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.79%
Mn 257.610†           164773.5      480.20 µg/L         4.395      480.20 ppb          4.395   0.92%
   QC value within limits for Mn 257.610  Recovery = 96.04%
Mo 202.031†             4136.6      467.54 µg/L        12.501      467.54 ppb         12.501   2.67%
   QC value within limits for Mo 202.031  Recovery = 93.51%
Na 589.592 Radial†     13373.1       10458 µg/L         268.4       10458 ppb          268.4   2.57%
   QC value within limits for Na 589.592 Radial  Recovery = 104.58%
Ni 231.604†            16047.6      478.66 µg/L         4.961      478.66 ppb          4.961   1.04%
   QC value within limits for Ni 231.604  Recovery = 95.73%
P 214.914†              2187.9      2306.0 µg/L         56.39      2306.0 ppb          56.39   2.45%
   QC value within limits for P 214.914  Recovery = 92.24%
Pb 220.353†             2159.7      464.19 µg/L        14.266      464.19 ppb         14.266   3.07%
   QC value within limits for Pb 220.353  Recovery = 92.84%
S 181.975 Axial†         281.4      916.69 µg/L        18.280      916.69 ppb         18.280   1.99%
   QC value within limits for S 181.975 Axial  Recovery = 91.67%
Sb 206.836†              739.4      467.32 µg/L         9.654      467.32 ppb          9.654   2.07%
   QC value within limits for Sb 206.836  Recovery = 93.46%
Se 196.026†              350.2         478 µg/L          18.3         478 ppb           18.3   3.82%
   QC value within limits for Se 196.026  Recovery = 95.66%
SiO2†                  27806.4      5127.0 µg/L         52.77      5127.0 ppb          52.77   1.03%
   QC value within limits for SiO2  Recovery = 95.88%
Si 251.611†            81664.2      2398.1 µg/L         25.00      2398.1 ppb          25.00   1.04%
   QC value within limits for Si 251.611  Recovery = 95.92%
Sn 189.927†             1140.4      464.39 µg/L        13.340      464.39 ppb         13.340   2.87%
   QC value within limits for Sn 189.927  Recovery = 92.88%
Sr 421.552†            42540.7      485.49 µg/L        11.117      485.49 ppb         11.117   2.29%
   QC value within limits for Sr 421.552  Recovery = 97.10%
Ti 334.940†           258345.9      481.14 µg/L         4.576      481.14 ppb          4.576   0.95%
   QC value within limits for Ti 334.940  Recovery = 96.23%
Tl 190.801†              385.0      462.04 µg/L        11.122      462.04 ppb         11.122   2.41%
   QC value within limits for Tl 190.801  Recovery = 92.41%
U 367.007†              1764.3      454.25 µg/L        16.731      454.25 ppb         16.731   3.68%
   QC value within limits for U 367.007  Recovery = 90.85%
V 292.402†             67487.8      483.32 µg/L         3.642      483.32 ppb          3.642   0.75%
   QC value within limits for V 292.402  Recovery = 96.66%
Zn 213.857†            37276.7      471.94 µg/L         5.512      471.94 ppb          5.512   1.17%
   QC value within limits for Zn 213.857  Recovery = 94.39%
All analyte(s) passed QC.
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Sequence No.: 3 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/6/2013 14:51:33**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21301.3	21301.3	96.7	%			14:52:22
1	Al 396.153Radial†	42.6	135.2	216.84	µg/L	216.84	ppb	14:52:22
1	Ca 317.933Radial†	360.6	290.6	197.79	µg/L	197.79	ppb	14:52:42
1	Fe 238.204 Radial†	57.1	30.9	105.21	µg/L	105.21	ppb	14:52:42
1	K 766.490 Radial†	752.7	125.8	155.87	µg/L	155.87	ppb	14:52:22
1	Mg 279.077 IEC†	38.3	35.3	250.13	µg/L	250.13	ppb	14:52:42
1	Na 589.592 Radial†	374.9	420.5	328.81	µg/L	328.81	ppb	14:52:22
1	Sr 421.552†	466.3	448.5	5.1170	µg/L	5.1170	ppb	14:52:22
1	Sc 361.383	1227177.7	1227177.7	97.405	%			14:54:20
1	Y 371.029	724823.8	724823.8	97.274	%			14:54:20
1	Ag 328.068†	1325.8	691.4	4.6084	µg/L	4.6084	ppb	14:54:22
1	As 188.979†	11.8	14.6	28.933	µg/L	28.933	ppb	14:54:42
1	B 249.677†	4118.3	3968.5	47.541	µg/L	47.541	ppb	14:54:22
1	Ba 233.527†	274.6	364.5	5.1350	µg/L	5.1350	ppb	14:54:42
1	Be 313.107†	4167.4	11147.5	4.8316	µg/L	4.8316	ppb	14:54:22
1	Cd 226.502†	227.0	342.5	5.3365	µg/L	5.3365	ppb	14:54:42
1	Co 228.616†	77.2	177.6	5.2322	µg/L	5.2322	ppb	14:54:42
1	Cr 267.716†	381.6	272.0	4.9613	µg/L	4.9613	ppb	14:54:42
1	Cu 324.752†	5228.3	1505.7	10.120	µg/L	10.120	ppb	14:54:22
1	Mn 257.610†	3556.1	3445.6	10.036	µg/L	10.036	ppb	14:54:42
1	Mo 202.031†	84.3	95.4	10.782	µg/L	10.782	ppb	14:54:42
1	Ni 231.604†	107.4	153.1	4.5665	µg/L	4.5665	ppb	14:54:42
1	P 214.914†	76.1	138.1	146.23	µg/L	146.23	ppb	14:54:42
1	Pb 220.353†	125.5	26.4	5.6702	µg/L	5.6702	ppb	14:54:42
1	S 181.975 Axial†	54.5	33.0	107.97	µg/L	107.97	ppb	14:54:42
1	Sb 206.836†	17.8	12.9	8.2013	µg/L	8.2013	ppb	14:54:42
1	Se 196.026†	43.1	33.2	45.2	µg/L	45.2	ppb	14:54:42
1	SiO2†	2887.6	1143.2	210.51	µg/L	210.51	ppb	14:54:22
1	Si 251.611†	3634.9	3318.6	97.550	µg/L	97.550	ppb	14:54:22
1	Sn 189.927†	21.6	24.1	9.8035	µg/L	9.8035	ppb	14:54:42
1	Ti 334.940†	3972.9	2494.0	4.6377	µg/L	4.6377	ppb	14:54:22
1	Tl 190.801†	2.4	18.7	22.609	µg/L	22.609	ppb	14:54:42
1	U 367.007†	418.7	114.8	30.890	µg/L	30.890	ppb	14:54:22
1	V 292.402†	962.4	625.8	4.5855	µg/L	4.5855	ppb	14:54:22
1	Zn 213.857†	1285.6	776.9	9.8628	µg/L	9.8628	ppb	14:54:42
2	Sc RADIAL	20846.4	20846.4	94.7	%			14:53:02
2	Al 396.153Radial†	39.5	132.9	213.02	µg/L	213.02	ppb	14:53:02
2	Ca 317.933Radial†	347.4	284.7	193.77	µg/L	193.77	ppb	14:53:22
2	Fe 238.204 Radial†	51.8	26.6	90.462	µg/L	90.462	ppb	14:53:22
2	K 766.490 Radial†	732.3	121.3	150.23	µg/L	150.23	ppb	14:53:02
2	Mg 279.077 IEC†	39.8	37.8	267.47	µg/L	267.47	ppb	14:53:22
2	Na 589.592 Radial†	362.0	415.3	324.73	µg/L	324.73	ppb	14:53:02
2	Sr 421.552†	460.2	452.5	5.1625	µg/L	5.1625	ppb	14:53:02
2	Sc 361.383	1221433.0	1221433.0	96.949	%			14:54:44
2	Y 371.029	720749.2	720749.2	96.727	%			14:54:44
2	Ag 328.068†	1441.8	817.4	5.4403	µg/L	5.4403	ppb	14:54:46
2	As 188.979†	7.2	10.0	19.824	µg/L	19.824	ppb	14:55:06
2	B 249.677†	4089.3	3958.6	47.477	µg/L	47.477	ppb	14:54:46
2	Ba 233.527†	252.8	343.3	4.8360	µg/L	4.8360	ppb	14:55:06
2	Be 313.107†	4215.9	11217.7	4.8620	µg/L	4.8620	ppb	14:54:46
2	Cd 226.502†	215.0	331.3	5.1634	µg/L	5.1634	ppb	14:55:06
2	Co 228.616†	71.1	171.7	5.0564	µg/L	5.0564	ppb	14:55:06
2	Cr 267.716†	354.8	246.2	4.4816	µg/L	4.4816	ppb	14:55:06
2	Cu 324.752†	5257.0	1560.6	10.491	µg/L	10.491	ppb	14:54:46
2	Mn 257.610†	3442.4	3345.5	9.7433	µg/L	9.7433	ppb	14:55:06
2	Mo 202.031†	74.5	85.7	9.6909	µg/L	9.6909	ppb	14:55:06
2	Ni 231.604†	113.6	160.0	4.7717	µg/L	4.7717	ppb	14:55:06
2	P 214.914†	68.4	130.6	138.25	µg/L	138.25	ppb	14:55:06
2	Pb 220.353†	138.2	40.1	8.6051	µg/L	8.6051	ppb	14:55:06

2	S 181.975 Axial†	56.3	35.1	114.86 µg/L	114.86 ppb	14:55:06
2	Sb 206.836†	16.7	11.9	7.5708 µg/L	7.5708 ppb	14:55:06
2	Se 196.026†	33.6	23.5	32.1 µg/L	32.1 ppb	14:55:06
2	SiO2†	2856.5	1125.1	207.17 µg/L	207.17 ppb	14:54:46
2	Si 251.611†	3584.0	3283.7	96.535 µg/L	96.535 ppb	14:54:46
2	Sn 189.927†	19.1	21.5	8.7714 µg/L	8.7714 ppb	14:55:06
2	Ti 334.940†	3877.4	2414.6	4.4845 µg/L	4.4845 ppb	14:54:46
2	Tl 190.801†	5.5	21.9	26.525 µg/L	26.525 ppb	14:55:06
2	U 367.007†	452.8	152.0	41.159 µg/L	41.159 ppb	14:54:46
2	V 292.402†	920.4	587.1	4.3019 µg/L	4.3019 ppb	14:54:46
2	Zn 213.857†	1243.5	739.7	9.3872 µg/L	9.3872 ppb	14:55:06
3	Sc RADIAL	21114.1	21114.1	95.9 %		14:53:42
3	Al 396.153Radial†	44.6	137.6	220.71 µg/L	220.71 ppb	14:53:42
3	Ca 317.933Radial†	372.3	306.0	208.30 µg/L	208.30 ppb	14:54:02
3	Fe 238.204 Radial†	57.9	32.3	109.90 µg/L	109.90 ppb	14:54:02
3	K 766.490 Radial†	745.5	125.3	155.21 µg/L	155.21 ppb	14:53:42
3	Mg 279.077 IEC†	43.4	41.0	290.48 µg/L	290.48 ppb	14:54:02
3	Na 589.592 Radial†	382.0	431.3	337.28 µg/L	337.28 ppb	14:53:42
3	Sr 421.552†	468.0	454.4	5.1851 µg/L	5.1851 ppb	14:53:42
3	Sc 361.383	1096642.9	1096642.9	87.044 %		14:55:08
3	Y 371.029	647371.3	647371.3	86.880 %		14:55:08
3	Ag 328.068†	1295.0	818.0	5.4490 µg/L	5.4490 ppb	14:55:10
3	As 188.979†	13.3	17.9	35.307 µg/L	35.307 ppb	14:55:30
3	B 249.677†	3565.6	3836.9	45.934 µg/L	45.934 ppb	14:55:10
3	Ba 233.527†	255.5	376.1	5.2992 µg/L	5.2992 ppb	14:55:30
3	Be 313.107†	3125.3	10459.5	4.5334 µg/L	4.5334 ppb	14:55:10
3	Cd 226.502†	212.0	353.0	5.5004 µg/L	5.5004 ppb	14:55:30
3	Co 228.616†	86.8	198.1	5.8360 µg/L	5.8360 ppb	14:55:30
3	Cr 267.716†	344.8	276.4	5.0364 µg/L	5.0364 ppb	14:55:30
3	Cu 324.752†	4718.1	1558.5	10.478 µg/L	10.478 ppb	14:55:10
3	Mn 257.610†	3570.2	3896.3	11.349 µg/L	11.349 ppb	14:55:30
3	Mo 202.031†	77.8	98.3	11.111 µg/L	11.111 ppb	14:55:30
3	Ni 231.604†	106.3	164.9	4.9188 µg/L	4.9188 ppb	14:55:30
3	P 214.914†	61.8	131.0	138.64 µg/L	138.64 ppb	14:55:30
3	Pb 220.353†	142.8	61.6	13.209 µg/L	13.209 ppb	14:55:30
3	S 181.975 Axial†	58.3	44.0	143.94 µg/L	143.94 ppb	14:55:30
3	Sb 206.836†	14.1	10.9	6.9145 µg/L	6.9145 ppb	14:55:30
3	Se 196.026†	34.9	29.0	39.6 µg/L	39.6 ppb	14:55:30
3	SiO2†	2677.9	1255.2	231.12 µg/L	231.12 ppb	14:55:10
3	Si 251.611†	3140.6	3194.9	93.905 µg/L	93.905 ppb	14:55:10
3	Sn 189.927†	25.0	30.6	12.450 µg/L	12.450 ppb	14:55:30
3	Ti 334.940†	3443.4	2371.2	4.4055 µg/L	4.4055 ppb	14:55:10
3	Tl 190.801†	3.3	20.1	24.251 µg/L	24.251 ppb	14:55:30
3	U 367.007†	396.6	140.6	37.910 µg/L	37.910 ppb	14:55:10
3	V 292.402†	895.8	666.8	4.8842 µg/L	4.8842 ppb	14:55:10
3	Zn 213.857†	1272.4	918.9	11.670 µg/L	11.670 ppb	14:55:30

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1181751.2	93.800	%	5.8547				6.24%
Sc RADIAL	21087.3	95.8	%	1.04				1.08%
Y 371.029	697648.1	93.627	%	5.8497				6.25%
Ag 328.068†	775.6	5.1659	µg/L	0.48285	5.1659	ppb	0.48285	9.35%
QC value within limits for Ag 328.068 Recovery = 103.32%								
Al 396.153Radial†	135.2	216.86	µg/L	3.841	216.86	ppb	3.841	1.77%
QC value within limits for Al 396.153Radial Recovery = 108.43%								
As 188.979†	14.2	28.021	µg/L	7.7816	28.021	ppb	7.7816	27.77%
QC value within limits for As 188.979 Recovery = 93.40%								
B 249.677†	3921.3	46.984	µg/L	0.9099	46.984	ppb	0.9099	1.94%
QC value within limits for B 249.677 Recovery = 93.97%								
Ba 233.527†	361.3	5.0901	µg/L	0.23483	5.0901	ppb	0.23483	4.61%
QC value within limits for Ba 233.527 Recovery = 101.80%								
Be 313.107†	10941.6	4.7423	µg/L	0.18157	4.7423	ppb	0.18157	3.83%
QC value within limits for Be 313.107 Recovery = 94.85%								
Ca 317.933Radial†	293.8	199.96	µg/L	7.503	199.96	ppb	7.503	3.75%
QC value within limits for Ca 317.933Radial Recovery = 99.98%								
Cd 226.502†	342.3	5.3334	µg/L	0.16851	5.3334	ppb	0.16851	3.16%
QC value within limits for Cd 226.502 Recovery = 106.67%								
Co 228.616†	182.5	5.3749	µg/L	0.40894	5.3749	ppb	0.40894	7.61%

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   QC value within limits for Co 228.616  Recovery = 107.50%
Cr 267.716†              264.9      4.8264 µg/L       0.30099      4.8264 ppb        0.30099   6.24%
   QC value within limits for Cr 267.716  Recovery = 96.53%
Cu 324.752†             1541.6      10.363 µg/L        0.2106      10.363 ppb         0.2106   2.03%
   QC value within limits for Cu 324.752  Recovery = 103.63%
Fe 238.204 Radial†        29.9      101.86 µg/L        10.144      101.86 ppb         10.144   9.96%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.86%
K 766.490 Radial†        124.1      153.77 µg/L         3.079      153.77 ppb          3.079   2.00%
   QC value within limits for K 766.490 Radial  Recovery = 102.51%
Mg 279.077 IEC†           38.0      269.36 µg/L        20.242      269.36 ppb         20.242   7.51%
   QC value within limits for Mg 279.077 IEC  Recovery = 89.79%
Mn 257.610†             3562.5      10.376 µg/L        0.8549      10.376 ppb         0.8549   8.24%
   QC value within limits for Mn 257.610  Recovery = 103.76%
Mo 202.031†               93.1      10.528 µg/L        0.7435      10.528 ppb         0.7435   7.06%
   QC value within limits for Mo 202.031  Recovery = 105.28%
Na 589.592 Radial†       422.4      330.27 µg/L         6.403      330.27 ppb          6.403   1.94%
   QC value within limits for Na 589.592 Radial  Recovery = 110.09%
Ni 231.604†              159.3      4.7523 µg/L       0.17696      4.7523 ppb        0.17696   3.72%
   QC value within limits for Ni 231.604  Recovery = 95.05%
P 214.914†               133.2      141.04 µg/L         4.501      141.04 ppb          4.501   3.19%
   QC value within limits for P 214.914  Recovery = 94.03%
Pb 220.353†               42.7      9.1613 µg/L       3.79986      9.1613 ppb        3.79986  41.48%
   QC value within limits for Pb 220.353  Recovery = 91.61%
S 181.975 Axial†          37.4      122.26 µg/L        19.092      122.26 ppb         19.092  15.62%
   QC value within limits for S 181.975 Axial  Recovery = 122.26%
Sb 206.836†               11.9      7.5622 µg/L       0.64349      7.5622 ppb        0.64349   8.51%
   QC value within limits for Sb 206.836  Recovery = 75.62%
Se 196.026†               28.6        39.0 µg/L          6.59        39.0 ppb           6.59  16.92%
   QC value within limits for Se 196.026  Recovery = 129.87%
SiO2†                    1174.5      216.26 µg/L        12.973      216.26 ppb         12.973   6.00%
   QC value within limits for SiO2  Recovery = 101.53%
Si 251.611†              3265.7      95.997 µg/L        1.8810      95.997 ppb         1.8810   1.96%
   QC value within limits for Si 251.611  Recovery = 96.00%
Sn 189.927†               25.4      10.342 µg/L        1.8976      10.342 ppb         1.8976  18.35%
   QC value within limits for Sn 189.927  Recovery = 103.42%
Sr 421.552†              451.8      5.1549 µg/L       0.03466      5.1549 ppb        0.03466   0.67%
   QC value within limits for Sr 421.552  Recovery = 103.10%
Ti 334.940†              2426.6      4.5093 µg/L       0.11806      4.5093 ppb        0.11806   2.62%
   QC value within limits for Ti 334.940  Recovery = 90.19%
Tl 190.801†               20.2      24.462 µg/L        1.9663      24.462 ppb         1.9663   8.04%
   QC value within limits for Tl 190.801  Recovery = 122.31%
U 367.007†               135.8      36.653 µg/L        5.2487      36.653 ppb         5.2487  14.32%
   QC value within limits for U 367.007  Recovery = 73.31%
V 292.402†               626.6      4.5906 µg/L       0.29117      4.5906 ppb        0.29117   6.34%
   QC value within limits for V 292.402  Recovery = 91.81%
Zn 213.857†              811.8      10.307 µg/L        1.2042      10.307 ppb         1.2042  11.68%
   QC value within limits for Zn 213.857  Recovery = 103.07%
All analyte(s) passed QC.
```

Sequence No.: 4 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 14:55:38**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21471.3	21471.3	97.5	%			14:56:27
1	Al 396.153Radial†	-90.1	-1.2	-1.9244	µg/L	-1.9244	ppb	14:56:27
1	Ca 317.933Radial†	77.6	-2.6	-1.8073	µg/L	-1.8073	ppb	14:56:47
1	Fe 238.204 Radial†	29.5	2.1	7.0928	µg/L	7.0928	ppb	14:56:47
1	K 766.490 Radial†	630.2	-6.0	-7.4032	µg/L	-7.4032	ppb	14:56:27
1	Mg 279.077 IEC†	8.8	4.8	33.845	µg/L	33.845	ppb	14:56:47
1	Na 589.592 Radial†	-46.6	-14.9	-11.633	µg/L	-11.633	ppb	14:56:27
1	Sr 421.552†	50.6	18.3	0.2085	µg/L	0.2085	ppb	14:56:27
1	Sc 361.383	1211867.3	1211867.3	96.190	%			14:58:25
1	Y 371.029	716425.7	716425.7	96.147	%			14:58:25
1	Ag 328.068†	647.6	3.6	0.0257	µg/L	0.0257	ppb	14:58:27
1	As 188.979†	-2.1	0.4	0.6949	µg/L	0.6949	ppb	14:58:47
1	B 249.677†	348.9	103.3	1.2253	µg/L	1.2253	ppb	14:58:47
1	Ba 233.527†	-69.6	10.2	0.1433	µg/L	0.1433	ppb	14:58:47
1	Be 313.107†	-6996.5	-404.5	-0.1753	µg/L	-0.1753	ppb	14:58:27
1	Cd 226.502†	-109.1	-3.9	-0.0623	µg/L	-0.0623	ppb	14:58:47
1	Co 228.616†	-91.3	3.4	0.1017	µg/L	0.1017	ppb	14:58:47
1	Cr 267.716†	130.8	16.3	0.2995	µg/L	0.2995	ppb	14:58:47
1	Cu 324.752†	3903.2	196.0	1.3136	µg/L	1.3136	ppb	14:58:27
1	Mn 257.610†	212.8	15.9	0.0453	µg/L	0.0453	ppb	14:58:47
1	Mo 202.031†	-11.3	-2.9	-0.3233	µg/L	-0.3233	ppb	14:58:47
1	Ni 231.604†	-55.3	-14.7	-0.4378	µg/L	-0.4378	ppb	14:58:47
1	P 214.914†	-69.2	-11.9	-12.606	µg/L	-12.606	ppb	14:58:47
1	Pb 220.353†	104.9	6.6	1.4234	µg/L	1.4234	ppb	14:58:47
1	S 181.975 Axial†	26.3	4.5	14.614	µg/L	14.614	ppb	14:58:47
1	Sb 206.836†	3.3	-1.9	-1.2201	µg/L	-1.2201	ppb	14:58:47
1	Se 196.026†	16.4	5.9	8.06	µg/L	8.06	ppb	14:58:47
1	SiO2†	1770.9	19.7	3.6387	µg/L	3.6387	ppb	14:58:47
1	Si 251.611†	398.9	1.5	0.0504	µg/L	0.0504	ppb	14:58:47
1	Sn 189.927†	-4.6	-3.0	-1.2088	µg/L	-1.2088	ppb	14:58:47
1	Ti 334.940†	1350.3	-181.0	-0.3366	µg/L	-0.3366	ppb	14:58:27
1	Tl 190.801†	-14.5	1.1	1.3755	µg/L	1.3755	ppb	14:58:47
1	U 367.007†	295.7	-7.6	-2.1207	µg/L	-2.1207	ppb	14:58:27
1	V 292.402†	361.4	13.4	0.0916	µg/L	0.0916	ppb	14:58:27
1	Zn 213.857†	538.5	16.9	0.2149	µg/L	0.2149	ppb	14:58:47
2	Sc RADIAL	21248.7	21248.7	96.5	%			14:57:07
2	Al 396.153Radial†	-84.0	4.1	6.5663	µg/L	6.5663	ppb	14:57:07
2	Ca 317.933Radial†	78.5	-0.9	-0.6060	µg/L	-0.6060	ppb	14:57:27
2	Fe 238.204 Radial†	30.2	3.1	10.642	µg/L	10.642	ppb	14:57:27
2	K 766.490 Radial†	618.8	-10.9	-13.536	µg/L	-13.536	ppb	14:57:07
2	Mg 279.077 IEC†	3.2	-0.9	-6.5020	µg/L	-6.5020	ppb	14:57:27
2	Na 589.592 Radial†	-69.4	-39.1	-30.545	µg/L	-30.545	ppb	14:57:07
2	Sr 421.552†	63.3	31.9	0.3646	µg/L	0.3646	ppb	14:57:07
2	Sc 361.383	1164456.0	1164456.0	92.427	%			14:58:49
2	Y 371.029	688346.4	688346.4	92.379	%			14:58:49
2	Ag 328.068†	525.5	-101.2	-0.6580	µg/L	-0.6580	ppb	14:58:51
2	As 188.979†	-1.1	1.3	2.5944	µg/L	2.5944	ppb	14:59:11
2	B 249.677†	279.2	42.6	0.4816	µg/L	0.4816	ppb	14:59:11
2	Ba 233.527†	-72.8	3.8	0.0520	µg/L	0.0520	ppb	14:59:11
2	Be 313.107†	-6791.7	-479.1	-0.2076	µg/L	-0.2076	ppb	14:58:51
2	Cd 226.502†	-104.3	-3.3	-0.0538	µg/L	-0.0538	ppb	14:59:11
2	Co 228.616†	-85.4	6.0	0.1768	µg/L	0.1768	ppb	14:59:11
2	Cr 267.716†	126.4	17.0	0.3262	µg/L	0.3262	ppb	14:59:11
2	Cu 324.752†	3766.9	213.7	1.4232	µg/L	1.4232	ppb	14:58:51
2	Mn 257.610†	182.4	-7.9	-0.0226	µg/L	-0.0226	ppb	14:59:11
2	Mo 202.031†	0.0	8.9	1.0027	µg/L	1.0027	ppb	14:59:11
2	Ni 231.604†	-64.9	-27.4	-0.8175	µg/L	-0.8175	ppb	14:59:11
2	P 214.914†	-78.0	-24.3	-25.811	µg/L	-25.811	ppb	14:59:11
2	Pb 220.353†	93.1	-1.7	-0.3419	µg/L	-0.3419	ppb	14:59:11

2	S 181.975 Axial†	23.2	2.2	7.1806	µg/L	7.1806	ppb	14:59:11
2	Sb 206.836†	3.5	-1.6	-0.9897	µg/L	-0.9897	ppb	14:59:11
2	Se 196.026†	11.9	1.8	2.48	µg/L	2.48	ppb	14:59:11
2	SiO2†	1721.6	41.4	7.6292	µg/L	7.6292	ppb	14:59:11
2	Si 251.611†	416.4	37.4	1.0890	µg/L	1.0890	ppb	14:59:11
2	Sn 189.927†	6.2	8.5	3.4658	µg/L	3.4658	ppb	14:59:11
2	Ti 334.940†	1348.4	-125.9	-0.2235	µg/L	-0.2235	ppb	14:58:51
2	Tl 190.801†	-12.3	3.0	3.6321	µg/L	3.6321	ppb	14:59:11
2	U 367.007†	217.8	-79.4	-21.827	µg/L	-21.827	ppb	14:58:51
2	V 292.402†	261.9	-79.0	-0.5547	µg/L	-0.5547	ppb	14:58:51
2	Zn 213.857†	530.2	30.7	0.3943	µg/L	0.3943	ppb	14:59:11
3	Sc RADIAL	21241.8	21241.8	96.5	%			14:57:47
3	Al 396.153Radial†	-83.5	4.6	7.4185	µg/L	7.4185	ppb	14:57:47
3	Ca 317.933Radial†	77.3	-2.2	-1.4759	µg/L	-1.4759	ppb	14:58:07
3	Fe 238.204 Radial†	29.0	1.9	6.6245	µg/L	6.6245	ppb	14:58:07
3	K 766.490 Radial†	630.7	1.6	1.9548	µg/L	1.9548	ppb	14:57:47
3	Mg 279.077 IEC†	1.7	-2.5	-17.619	µg/L	-17.619	ppb	14:58:07
3	Na 589.592 Radial†	-31.5	0.2	0.1667	µg/L	0.1667	ppb	14:57:47
3	Sr 421.552†	28.2	-4.4	-0.0506	µg/L	-0.0506	ppb	14:57:47
3	Sc 361.383	1236503.0	1236503.0	98.146	%			14:59:13
3	Y 371.029	730879.8	730879.8	98.087	%			14:59:13
3	Ag 328.068†	560.0	-99.1	-0.6578	µg/L	-0.6578	ppb	14:59:15
3	As 188.979†	-8.8	-6.4	-12.656	µg/L	-12.656	ppb	14:59:35
3	B 249.677†	315.5	62.0	0.7250	µg/L	0.7250	ppb	14:59:35
3	Ba 233.527†	-97.3	-16.6	-0.2329	µg/L	-0.2329	ppb	14:59:35
3	Be 313.107†	-6799.5	-58.9	-0.0255	µg/L	-0.0255	ppb	14:59:15
3	Cd 226.502†	-101.5	6.1	0.0941	µg/L	0.0941	ppb	14:59:35
3	Co 228.616†	-91.5	5.1	0.1524	µg/L	0.1524	ppb	14:59:35
3	Cr 267.716†	136.8	19.6	0.3630	µg/L	0.3630	ppb	14:59:35
3	Cu 324.752†	3642.8	-150.2	-1.0079	µg/L	-1.0079	ppb	14:59:15
3	Mn 257.610†	194.7	-6.9	-0.0193	µg/L	-0.0193	ppb	14:59:35
3	Mo 202.031†	-1.1	7.7	0.8668	µg/L	0.8668	ppb	14:59:35
3	Ni 231.604†	-38.7	3.4	0.1014	µg/L	0.1014	ppb	14:59:35
3	P 214.914†	-65.3	-6.4	-6.8372	µg/L	-6.8372	ppb	14:59:35
3	Pb 220.353†	90.4	-10.4	-2.2135	µg/L	-2.2135	ppb	14:59:35
3	S 181.975 Axial†	19.9	-2.6	-8.5235	µg/L	-8.5235	ppb	14:59:35
3	Sb 206.836†	2.6	-2.7	-1.6917	µg/L	-1.6917	ppb	14:59:35
3	Se 196.026†	21.5	10.8	14.7	µg/L	14.7	ppb	14:59:35
3	SiO2†	1752.8	-35.3	-6.4882	µg/L	-6.4882	ppb	14:59:35
3	Si 251.611†	418.9	13.6	0.3906	µg/L	0.3906	ppb	14:59:35
3	Sn 189.927†	1.7	3.6	1.4618	µg/L	1.4618	ppb	14:59:35
3	Ti 334.940†	1333.9	-225.6	-0.4181	µg/L	-0.4181	ppb	14:59:15
3	Tl 190.801†	-15.4	0.6	0.7201	µg/L	0.7201	ppb	14:59:35
3	U 367.007†	292.6	-16.9	-4.6741	µg/L	-4.6741	ppb	14:59:15
3	V 292.402†	362.8	7.4	0.0621	µg/L	0.0621	ppb	14:59:15
3	Zn 213.857†	529.4	-3.5	-0.0454	µg/L	-0.0454	ppb	14:59:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1204275.5	95.588	%	2.9065				3.04%
Sc RADIAL	21320.6	96.8	%	0.59				0.61%
Y 371.029	711884.0	95.537	%	2.9025				3.04%
Ag 328.068†	-65.6	-0.4301	µg/L	0.39469	-0.4301	ppb	0.39469	91.78%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	2.5	4.0201	µg/L	5.16576	4.0201	ppb	5.16576	128.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.6	-3.1222	µg/L	8.31092	-3.1222	ppb	8.31092	266.19%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	69.3	0.8106	µg/L	0.37918	0.8106	ppb	0.37918	46.78%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-0.9	-0.0125	µg/L	0.19623	-0.0125	ppb	0.19623	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-314.1	-0.1362	µg/L	0.09716	-0.1362	ppb	0.09716	71.36%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-1.9	-1.2964	µg/L	0.62041	-1.2964	ppb	0.62041	47.86%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-0.4	-0.0073	µg/L	0.08792	-0.0073	ppb	0.08792	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	4.8	0.1436	µg/L	0.03828	0.1436	ppb	0.03828	26.65%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               17.6      0.3295 µg/L       0.03186      0.3295 ppb        0.03186   9.67%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               86.5      0.5763 µg/L       1.37302      0.5763 ppb        1.37302 238.25%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         2.4      8.1198 µg/L       2.19684      8.1198 ppb        2.19684  27.06%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -5.1     -6.3282 µg/L       7.80125     -6.3282 ppb        7.80125 123.28%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            0.5      3.2415 µg/L      27.08010      3.2415 ppb       27.08010 835.42%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                0.4      0.0011 µg/L       0.03830      0.0011 ppb        0.03830 >999.9%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                4.6      0.5154 µg/L       0.72951      0.5154 ppb        0.72951 141.54%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -17.9     -14.004 µg/L       15.4926     -14.004 ppb        15.4926 110.63%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -12.9     -0.3846 µg/L       0.46172     -0.3846 ppb        0.46172 120.04%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               -14.2     -15.085 µg/L        9.7268     -15.085 ppb         9.7268  64.48%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -1.8     -0.3773 µg/L       1.81871     -0.3773 ppb        1.81871 481.97%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.3      4.4237 µg/L      11.81259      4.4237 ppb       11.81259 267.03%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -2.1     -1.3005 µg/L       0.35783     -1.3005 ppb        0.35783  27.51%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                6.2        8.42 µg/L         6.138        8.42 ppb          6.138  72.85%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      8.6      1.5932 µg/L       7.27756      1.5932 ppb        7.27756 456.78%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               17.5      0.5100 µg/L       0.52946      0.5100 ppb        0.52946 103.81%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                3.0      1.2396 µg/L       2.34520      1.2396 ppb        2.34520 189.19%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               15.3      0.1742 µg/L       0.20974      0.1742 ppb        0.20974 120.43%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -177.5     -0.3261 µg/L       0.09771     -0.3261 ppb        0.09771  29.97%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                1.6      1.9092 µg/L       1.52762      1.9092 ppb        1.52762  80.01%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -34.6     -9.5405 µg/L      10.71650     -9.5405 ppb       10.71650 112.33%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -19.4     -0.1337 µg/L       0.36493     -0.1337 ppb        0.36493 273.03%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               14.7      0.1879 µg/L       0.22109      0.1879 ppb        0.22109 117.64%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 5 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 14:59:44**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21573.9	21573.9	98.0	%			15:00:14
1	Al 396.153Radial†	3090.6	3246.0	5202.4	µg/L	5202.4	ppb	15:00:34
1	Ca 317.933Radial†	7181.0	7247.9	4933.8	µg/L	4933.8	ppb	15:00:34
1	Fe 238.204 Radial†	1483.1	1485.7	5054.7	µg/L	5054.7	ppb	15:00:34
1	K 766.490 Radial†	4687.3	4132.4	5123.8	µg/L	5123.8	ppb	15:00:14
1	Mg 279.077 IEC†	712.0	722.6	5116.2	µg/L	5116.2	ppb	15:00:34
1	Na 589.592 Radial†	13328.5	13638.3	10665	µg/L	10665	ppb	15:00:14
1	Sr 421.552†	42474.5	43323.1	494.42	µg/L	494.42	ppb	15:00:14
1	Sc 361.383	1169636.0	1169636.0	92.838	%			15:01:36
1	Y 371.029	677351.3	677351.3	90.903	%			15:01:36
1	Ag 328.068†	69120.0	73782.6	494.40	µg/L	494.40	ppb	15:01:38
1	As 188.979†	225.8	245.8	491.49	µg/L	491.49	ppb	15:01:58
1	B 249.677†	37013.8	39609.7	459.50	µg/L	459.50	ppb	15:01:38
1	Ba 233.527†	31477.6	33988.5	479.06	µg/L	479.06	ppb	15:01:38
1	Be 313.107†	1028750.2	1114981.9	483.26	µg/L	483.26	ppb	15:01:36
1	Cd 226.502†	28074.6	30349.9	473.46	µg/L	473.46	ppb	15:01:38
1	Co 228.616†	15055.9	16315.7	479.96	µg/L	479.96	ppb	15:01:38
1	Cr 267.716†	24333.5	26090.9	477.66	µg/L	477.66	ppb	15:01:38
1	Cu 324.752†	71521.5	73177.1	491.47	µg/L	491.47	ppb	15:01:38
1	Mn 257.610†	154082.5	165763.9	483.09	µg/L	483.09	ppb	15:01:38
1	Mo 202.031†	4091.3	4415.7	499.07	µg/L	499.07	ppb	15:01:58
1	Ni 231.604†	14842.0	16029.8	478.13	µg/L	478.13	ppb	15:01:38
1	P 214.914†	2102.1	2324.3	2450.6	µg/L	2450.6	ppb	15:01:58
1	Pb 220.353†	2242.7	2313.3	497.21	µg/L	497.21	ppb	15:01:58
1	S 181.975 Axial†	304.6	305.2	994.38	µg/L	994.38	ppb	15:01:58
1	Sb 206.836†	742.3	794.2	502.22	µg/L	502.22	ppb	15:01:58
1	Se 196.026†	351.9	368.0	502	µg/L	502	ppb	15:01:58
1	SiO2†	27789.7	28112.3	5183.3	µg/L	5183.3	ppb	15:01:38
1	Si 251.611†	77066.1	82598.2	2425.1	µg/L	2425.1	ppb	15:01:38
1	Sn 189.927†	1126.6	1215.3	494.83	µg/L	494.83	ppb	15:01:58
1	Ti 334.940†	243881.3	261110.7	486.29	µg/L	486.29	ppb	15:01:38
1	Tl 190.801†	369.9	414.7	498.04	µg/L	498.04	ppb	15:01:58
1	U 367.007†	1911.6	1744.0	449.34	µg/L	449.34	ppb	15:01:38
1	V 292.402†	63528.7	68067.3	487.77	µg/L	487.77	ppb	15:01:38
1	Zn 213.857†	35355.7	37540.3	475.32	µg/L	475.32	ppb	15:01:38
2	Sc RADIAL	20365.3	20365.3	92.5	%			15:00:36
2	Al 396.153Radial†	3059.6	3399.6	5449.1	µg/L	5449.1	ppb	15:00:56
2	Ca 317.933Radial†	7153.6	7653.3	5209.8	µg/L	5209.8	ppb	15:00:56
2	Fe 238.204 Radial†	1481.5	1573.9	5355.3	µg/L	5355.3	ppb	15:00:56
2	K 766.490 Radial†	4544.1	4261.5	5283.3	µg/L	5283.3	ppb	15:00:36
2	Mg 279.077 IEC†	708.4	761.8	5393.9	µg/L	5393.9	ppb	15:00:56
2	Na 589.592 Radial†	13221.2	14329.6	11206	µg/L	11206	ppb	15:00:36
2	Sr 421.552†	41519.7	44863.7	512.00	µg/L	512.00	ppb	15:00:36
2	Sc 361.383	1231523.3	1231523.3	97.750	%			15:02:00
2	Y 371.029	713279.8	713279.8	95.725	%			15:02:00
2	Ag 328.068†	72904.1	73912.3	495.25	µg/L	495.25	ppb	15:02:02
2	As 188.979†	235.2	243.2	486.39	µg/L	486.39	ppb	15:02:23
2	B 249.677†	39427.7	40075.6	463.96	µg/L	463.96	ppb	15:02:02
2	Ba 233.527†	33475.8	34328.9	483.85	µg/L	483.85	ppb	15:02:02
2	Be 313.107†	1098809.8	1130968.3	490.19	µg/L	490.19	ppb	15:02:00
2	Cd 226.502†	30062.6	30864.0	481.45	µg/L	481.45	ppb	15:02:02
2	Co 228.616†	16013.7	16480.7	484.80	µg/L	484.80	ppb	15:02:02
2	Cr 267.716†	25943.4	26420.8	483.71	µg/L	483.71	ppb	15:02:02
2	Cu 324.752†	75109.6	72976.4	490.18	µg/L	490.18	ppb	15:02:02
2	Mn 257.610†	163507.8	167065.7	486.88	µg/L	486.88	ppb	15:02:02
2	Mo 202.031†	4191.1	4296.4	485.60	µg/L	485.60	ppb	15:02:23
2	Ni 231.604†	15779.2	16185.2	482.76	µg/L	482.76	ppb	15:02:02
2	P 214.914†	2174.2	2284.3	2407.8	µg/L	2407.8	ppb	15:02:23
2	Pb 220.353†	2321.9	2272.9	488.52	µg/L	488.52	ppb	15:02:23

2	S 181.975 Axial†	307.5	291.6	949.93 µg/L	949.93 ppb	15:02:23
2	Sb 206.836†	754.6	766.6	484.62 µg/L	484.62 ppb	15:02:23
2	Se 196.026†	357.8	354.9	485 µg/L	485 ppb	15:02:23
2	SiO2†	29427.0	28283.0	5214.9 µg/L	5214.9 ppb	15:02:02
2	Si 251.611†	81383.6	82843.5	2432.6 µg/L	2432.6 ppb	15:02:02
2	Sn 189.927†	1167.0	1195.7	486.87 µg/L	486.87 ppb	15:02:23
2	Ti 334.940†	257656.0	262001.3	487.95 µg/L	487.95 ppb	15:02:02
2	Tl 190.801†	372.6	397.4	477.08 µg/L	477.08 ppb	15:02:23
2	U 367.007†	2050.3	1782.5	458.27 µg/L	458.27 ppb	15:02:02
2	V 292.402†	67395.5	68584.4	491.32 µg/L	491.32 ppb	15:02:02
2	Zn 213.857†	37581.8	37903.8	479.90 µg/L	479.90 ppb	15:02:02
3	Sc RADIAL	21347.6	21347.6	96.9 %		15:00:58
3	Al 396.153Radial†	3075.3	3263.6	5231.1 µg/L	5231.1 ppb	15:01:18
3	Ca 317.933Radial†	7253.8	7400.7	5037.8 µg/L	5037.8 ppb	15:01:18
3	Fe 238.204 Radial†	1502.3	1521.6	5176.9 µg/L	5176.9 ppb	15:01:18
3	K 766.490 Radial†	4509.4	3999.6	4959.2 µg/L	4959.2 ppb	15:00:58
3	Mg 279.077 IEC†	717.8	736.2	5212.5 µg/L	5212.5 ppb	15:01:18
3	Na 589.592 Radial†	13226.5	13677.2	10695 µg/L	10695 ppb	15:00:58
3	Sr 421.552†	42017.3	43311.1	494.28 µg/L	494.28 ppb	15:00:58
3	Sc 361.383	1236624.0	1236624.0	98.155 %		15:02:25
3	Y 371.029	716229.3	716229.3	96.121 %		15:02:25
3	Ag 328.068†	73731.6	74447.8	498.82 µg/L	498.82 ppb	15:02:27
3	As 188.979†	223.3	230.0	460.39 µg/L	460.39 ppb	15:02:47
3	B 249.677†	39843.7	40333.1	467.89 µg/L	467.89 ppb	15:02:27
3	Ba 233.527†	33998.5	34720.1	489.36 µg/L	489.36 ppb	15:02:27
3	Be 313.107†	1097629.6	1125129.3	487.66 µg/L	487.66 ppb	15:02:25
3	Cd 226.502†	30495.7	31178.4	486.39 µg/L	486.39 ppb	15:02:27
3	Co 228.616†	16224.8	16628.1	489.11 µg/L	489.11 ppb	15:02:27
3	Cr 267.716†	26221.8	26595.0	486.88 µg/L	486.88 ppb	15:02:27
3	Cu 324.752†	76199.1	73769.5	495.49 µg/L	495.49 ppb	15:02:27
3	Mn 257.610†	165981.7	168896.2	492.22 µg/L	492.22 ppb	15:02:27
3	Mo 202.031†	4032.0	4116.6	465.28 µg/L	465.28 ppb	15:02:47
3	Ni 231.604†	16159.3	16505.8	492.33 µg/L	492.33 ppb	15:02:27
3	P 214.914†	2111.5	2211.2	2330.7 µg/L	2330.7 ppb	15:02:47
3	Pb 220.353†	2211.6	2150.7	462.25 µg/L	462.25 ppb	15:02:47
3	S 181.975 Axial†	301.1	283.8	924.47 µg/L	924.47 ppb	15:02:47
3	Sb 206.836†	738.9	747.4	472.30 µg/L	472.30 ppb	15:02:47
3	Se 196.026†	352.6	348.1	475 µg/L	475 ppb	15:02:47
3	SiO2†	29853.7	28593.6	5272.1 µg/L	5272.1 ppb	15:02:27
3	Si 251.611†	82615.1	83754.7	2459.7 µg/L	2459.7 ppb	15:02:27
3	Sn 189.927†	1122.6	1145.6	466.48 µg/L	466.48 ppb	15:02:47
3	Ti 334.940†	260991.7	264312.5	492.24 µg/L	492.24 ppb	15:02:27
3	Tl 190.801†	363.2	386.3	463.55 µg/L	463.55 ppb	15:02:47
3	U 367.007†	2101.0	1825.4	470.97 µg/L	470.97 ppb	15:02:27
3	V 292.402†	68212.8	69132.6	494.92 µg/L	494.92 ppb	15:02:27
3	Zn 213.857†	38118.3	38291.8	484.81 µg/L	484.81 ppb	15:02:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1212594.4	96.248	%	2.9599				3.08%
Sc RADIAL	21095.6	95.8	%	2.92				3.05%
Y 371.029	702286.8	94.249	%	2.9048				3.08%
Ag 328.068†	74047.5	496.16	µg/L	2.347	496.16	ppb	2.347	0.47%
QC value within limits for Ag 328.068 Recovery = 99.23%								
Al 396.153Radial†	3303.1	5294.2	µg/L	134.90	5294.2	ppb	134.90	2.55%
QC value within limits for Al 396.153Radial Recovery = 105.88%								
As 188.979†	239.7	479.42	µg/L	16.682	479.42	ppb	16.682	3.48%
QC value within limits for As 188.979 Recovery = 95.88%								
B 249.677†	40006.2	463.78	µg/L	4.195	463.78	ppb	4.195	0.90%
QC value within limits for B 249.677 Recovery = 92.76%								
Ba 233.527†	34345.9	484.09	µg/L	5.156	484.09	ppb	5.156	1.07%
QC value within limits for Ba 233.527 Recovery = 96.82%								
Be 313.107†	1123693.1	487.04	µg/L	3.506	487.04	ppb	3.506	0.72%
QC value within limits for Be 313.107 Recovery = 97.41%								
Ca 317.933Radial†	7434.0	5060.5	µg/L	139.35	5060.5	ppb	139.35	2.75%
QC value within limits for Ca 317.933Radial Recovery = 101.21%								
Cd 226.502†	30797.4	480.44	µg/L	6.524	480.44	ppb	6.524	1.36%
QC value within limits for Cd 226.502 Recovery = 96.09%								
Co 228.616†	16474.8	484.62	µg/L	4.577	484.62	ppb	4.577	0.94%

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   QC value within limits for Co 228.616  Recovery = 96.92%
Cr 267.716†            26368.9      482.75 µg/L         4.684      482.75 ppb          4.684   0.97%
   QC value within limits for Cr 267.716  Recovery = 96.55%
Cu 324.752†            73307.7      492.38 µg/L         2.767      492.38 ppb          2.767   0.56%
   QC value within limits for Cu 324.752  Recovery = 98.48%
Fe 238.204 Radial†      1527.1      5195.6 µg/L        151.19      5195.6 ppb         151.19   2.91%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.91%
K 766.490 Radial†       4131.2      5122.1 µg/L        162.07      5122.1 ppb         162.07   3.16%
   QC value within limits for K 766.490 Radial  Recovery = 102.44%
Mg 279.077 IEC†          740.2      5240.9 µg/L        141.00      5240.9 ppb         141.00   2.69%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.82%
Mn 257.610†           167241.9      487.39 µg/L         4.586      487.39 ppb          4.586   0.94%
   QC value within limits for Mn 257.610  Recovery = 97.48%
Mo 202.031†             4276.3      483.32 µg/L        17.008      483.32 ppb         17.008   3.52%
   QC value within limits for Mo 202.031  Recovery = 96.66%
Na 589.592 Radial†     13881.7       10855 µg/L         303.7       10855 ppb          303.7   2.80%
   QC value within limits for Na 589.592 Radial  Recovery = 108.55%
Ni 231.604†            16240.3      484.41 µg/L         7.240      484.41 ppb          7.240   1.49%
   QC value within limits for Ni 231.604  Recovery = 96.88%
P 214.914†              2273.3      2396.4 µg/L         60.75      2396.4 ppb          60.75   2.54%
   QC value within limits for P 214.914  Recovery = 95.85%
Pb 220.353†             2245.6      482.66 µg/L        18.201      482.66 ppb         18.201   3.77%
   QC value within limits for Pb 220.353  Recovery = 96.53%
S 181.975 Axial†         293.5      956.26 µg/L        35.381      956.26 ppb         35.381   3.70%
   QC value within limits for S 181.975 Axial  Recovery = 95.63%
Sb 206.836†              769.4      486.38 µg/L        15.036      486.38 ppb         15.036   3.09%
   QC value within limits for Sb 206.836  Recovery = 97.28%
Se 196.026†              357.0         488 µg/L          13.7         488 ppb           13.7   2.81%
   QC value within limits for Se 196.026  Recovery = 97.52%
SiO2†                  28329.6      5223.4 µg/L         44.99      5223.4 ppb          44.99   0.86%
   QC value within limits for SiO2  Recovery = 97.68%
Si 251.611†            83065.5      2439.1 µg/L         18.16      2439.1 ppb          18.16   0.74%
   QC value within limits for Si 251.611  Recovery = 97.56%
Sn 189.927†             1185.5      482.73 µg/L        14.624      482.73 ppb         14.624   3.03%
   QC value within limits for Sn 189.927  Recovery = 96.55%
Sr 421.552†            43832.6      500.23 µg/L        10.190      500.23 ppb         10.190   2.04%
   QC value within limits for Sr 421.552  Recovery = 100.05%
Ti 334.940†           262474.8      488.83 µg/L         3.073      488.83 ppb          3.073   0.63%
   QC value within limits for Ti 334.940  Recovery = 97.77%
Tl 190.801†              399.5      479.56 µg/L        17.378      479.56 ppb         17.378   3.62%
   QC value within limits for Tl 190.801  Recovery = 95.91%
U 367.007†              1784.0      459.52 µg/L        10.870      459.52 ppb         10.870   2.37%
   QC value within limits for U 367.007  Recovery = 91.90%
V 292.402†             68594.7      491.33 µg/L         3.574      491.33 ppb          3.574   0.73%
   QC value within limits for V 292.402  Recovery = 98.27%
Zn 213.857†            37912.0      480.01 µg/L         4.745      480.01 ppb          4.745   0.99%
   QC value within limits for Zn 213.857  Recovery = 96.00%
All analyte(s) passed QC.
```

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

Autosampler Location: 8
Date Collected: 11/6/2013 15:02:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21374.7	21374.7	97.1	%			15:03:42
1	Al 396.153Radial†	-91.3	-2.9	-4.5854	µg/L	-4.5854	ppb	15:03:42
1	Ca 317.933Radial†	82.8	3.0	2.0472	µg/L	2.0472	ppb	15:04:02
1	Fe 238.204 Radial†	26.7	-0.6	-1.9893	µg/L	-1.9893	ppb	15:04:02
1	K 766.490 Radial†	599.8	-34.4	-42.590	µg/L	-42.590	ppb	15:03:42
1	Mg 279.077 IEC†	5.0	0.9	6.1436	µg/L	6.1436	ppb	15:04:02
1	Na 589.592 Radial†	-46.9	-15.5	-12.092	µg/L	-12.092	ppb	15:03:42
1	Sr 421.552†	43.0	10.7	0.1221	µg/L	0.1221	ppb	15:03:42
1	Sc 361.383	1203435.6	1203435.6	95.521	%			15:05:40
1	Y 371.029	711773.4	711773.4	95.523	%			15:05:40
1	Ag 328.068†	667.3	28.8	0.2009	µg/L	0.2009	ppb	15:05:42
1	As 188.979†	-3.4	-1.1	-2.1002	µg/L	-2.1002	ppb	15:06:02
1	B 249.677†	330.7	86.7	1.0723	µg/L	1.0723	ppb	15:06:02
1	Ba 233.527†	-87.9	-9.5	-0.1331	µg/L	-0.1331	ppb	15:06:02
1	Be 313.107†	-6946.9	-403.5	-0.1749	µg/L	-0.1749	ppb	15:05:42
1	Cd 226.502†	-123.5	-19.8	-0.3088	µg/L	-0.3088	ppb	15:06:02
1	Co 228.616†	-102.7	-9.1	-0.2675	µg/L	-0.2675	ppb	15:06:02
1	Cr 267.716†	121.5	7.5	0.1425	µg/L	0.1425	ppb	15:06:02
1	Cu 324.752†	3821.0	138.3	0.9224	µg/L	0.9224	ppb	15:05:42
1	Mn 257.610†	224.3	29.5	0.0858	µg/L	0.0858	ppb	15:06:02
1	Mo 202.031†	-7.4	1.1	0.1208	µg/L	0.1208	ppb	15:06:02
1	Ni 231.604†	-49.7	-9.1	-0.2729	µg/L	-0.2729	ppb	15:06:02
1	P 214.914†	-64.5	-7.4	-7.9085	µg/L	-7.9085	ppb	15:06:02
1	Pb 220.353†	90.0	-8.2	-1.7467	µg/L	-1.7467	ppb	15:06:02
1	S 181.975 Axial†	24.5	2.7	8.8292	µg/L	8.8292	ppb	15:06:02
1	Sb 206.836†	2.0	-3.3	-2.0594	µg/L	-2.0594	ppb	15:06:02
1	Se 196.026†	10.2	-0.5	-0.614	µg/L	-0.614	ppb	15:06:02
1	SiO2†	1755.1	16.1	2.9747	µg/L	2.9747	ppb	15:06:02
1	Si 251.611†	436.4	43.8	1.2870	µg/L	1.2870	ppb	15:06:02
1	Sn 189.927†	0.5	2.3	0.9423	µg/L	0.9423	ppb	15:06:02
1	Ti 334.940†	1424.2	-93.7	-0.1702	µg/L	-0.1702	ppb	15:05:42
1	Tl 190.801†	-12.4	3.3	3.9638	µg/L	3.9638	ppb	15:06:02
1	U 367.007†	270.5	-31.9	-8.7337	µg/L	-8.7337	ppb	15:05:42
1	V 292.402†	354.1	8.4	0.0561	µg/L	0.0561	ppb	15:05:42
1	Zn 213.857†	532.1	14.2	0.1814	µg/L	0.1814	ppb	15:06:02
2	Sc RADIAL	21217.5	21217.5	96.3	%			15:04:22
2	Al 396.153Radial†	-90.8	-3.1	-4.9462	µg/L	-4.9462	ppb	15:04:22
2	Ca 317.933Radial†	80.0	0.8	0.5616	µg/L	0.5616	ppb	15:04:42
2	Fe 238.204 Radial†	30.6	3.7	12.484	µg/L	12.484	ppb	15:04:42
2	K 766.490 Radial†	619.0	-9.9	-12.224	µg/L	-12.224	ppb	15:04:22
2	Mg 279.077 IEC†	-5.3	-9.8	-69.139	µg/L	-69.139	ppb	15:04:42
2	Na 589.592 Radial†	-35.6	-4.1	-3.1958	µg/L	-3.1958	ppb	15:04:22
2	Sr 421.552†	42.9	10.9	0.1247	µg/L	0.1247	ppb	15:04:22
2	Sc 361.383	1163880.0	1163880.0	92.381	%			15:06:04
2	Y 371.029	688644.9	688644.9	92.419	%			15:06:04
2	Ag 328.068†	723.4	113.4	0.7647	µg/L	0.7647	ppb	15:06:06
2	As 188.979†	-1.7	0.7	1.3612	µg/L	1.3612	ppb	15:06:26
2	B 249.677†	326.2	93.7	1.0901	µg/L	1.0901	ppb	15:06:26
2	Ba 233.527†	-63.4	13.9	0.1927	µg/L	0.1927	ppb	15:06:26
2	Be 313.107†	-6718.5	-403.4	-0.1749	µg/L	-0.1749	ppb	15:06:06
2	Cd 226.502†	-95.8	5.8	0.0892	µg/L	0.0892	ppb	15:06:26
2	Co 228.616†	-95.9	-5.4	-0.1580	µg/L	-0.1580	ppb	15:06:26
2	Cr 267.716†	101.8	-9.5	-0.1664	µg/L	-0.1664	ppb	15:06:26
2	Cu 324.752†	3642.6	81.2	0.5401	µg/L	0.5401	ppb	15:06:06
2	Mn 257.610†	185.0	-5.0	-0.0116	µg/L	-0.0116	ppb	15:06:26
2	Mo 202.031†	-12.0	-4.2	-0.4758	µg/L	-0.4758	ppb	15:06:26
2	Ni 231.604†	-35.3	4.6	0.1377	µg/L	0.1377	ppb	15:06:26
2	P 214.914†	-68.7	-14.3	-15.157	µg/L	-15.157	ppb	15:06:26
2	Pb 220.353†	94.5	-0.2	-0.0286	µg/L	-0.0286	ppb	15:06:26

2	S 181.975 Axial†	25.7	4.9	16.015	µg/L	16.015	ppb	15:06:26
2	Sb 206.836†	4.0	-1.0	-0.6090	µg/L	-0.6090	ppb	15:06:26
2	Se 196.026†	13.3	3.3	4.54	µg/L	4.54	ppb	15:06:26
2	SiO2†	1743.6	66.1	12.162	µg/L	12.162	ppb	15:06:26
2	Si 251.611†	422.1	43.8	1.2961	µg/L	1.2961	ppb	15:06:26
2	Sn 189.927†	6.7	9.0	3.6796	µg/L	3.6796	ppb	15:06:26
2	Ti 334.940†	1285.3	-193.4	-0.3542	µg/L	-0.3542	ppb	15:06:06
2	Tl 190.801†	-10.6	4.8	5.7722	µg/L	5.7722	ppb	15:06:26
2	U 367.007†	253.2	-41.0	-11.302	µg/L	-11.302	ppb	15:06:06
2	V 292.402†	206.8	-138.5	-0.9868	µg/L	-0.9868	ppb	15:06:06
2	Zn 213.857†	537.4	38.8	0.4936	µg/L	0.4936	ppb	15:06:26
3	Sc RADIAL	21225.7	21225.7	96.4	%			15:05:02
3	Al 396.153Radial†	-71.4	17.1	27.358	µg/L	27.358	ppb	15:05:02
3	Ca 317.933Radial†	84.0	4.9	3.3100	µg/L	3.3100	ppb	15:05:22
3	Fe 238.204 Radial†	28.9	1.9	6.4402	µg/L	6.4402	ppb	15:05:22
3	K 766.490 Radial†	596.1	-33.8	-41.861	µg/L	-41.861	ppb	15:05:02
3	Mg 279.077 IEC†	1.7	-2.5	-17.753	µg/L	-17.753	ppb	15:05:22
3	Na 589.592 Radial†	-31.3	0.4	0.3276	µg/L	0.3276	ppb	15:05:02
3	Sr 421.552†	59.4	28.0	0.3193	µg/L	0.3193	ppb	15:05:02
3	Sc 361.383	1236756.3	1236756.3	98.166	%			15:06:28
3	Y 371.029	731000.8	731000.8	98.103	%			15:06:28
3	Ag 328.068†	668.2	11.0	0.1005	µg/L	0.1005	ppb	15:06:30
3	As 188.979†	-5.8	-3.3	-6.5419	µg/L	-6.5419	ppb	15:06:50
3	B 249.677†	353.6	100.8	1.2125	µg/L	1.2125	ppb	15:06:50
3	Ba 233.527†	-77.3	3.8	0.0534	µg/L	0.0534	ppb	15:06:50
3	Be 313.107†	-6818.6	-76.9	-0.0333	µg/L	-0.0333	ppb	15:06:30
3	Cd 226.502†	-81.9	26.0	0.4054	µg/L	0.4054	ppb	15:06:50
3	Co 228.616†	-85.6	11.2	0.3313	µg/L	0.3313	ppb	15:06:50
3	Cr 267.716†	122.2	4.7	0.1076	µg/L	0.1076	ppb	15:06:50
3	Cu 324.752†	3853.2	63.3	0.4107	µg/L	0.4107	ppb	15:06:30
3	Mn 257.610†	212.1	10.8	0.0323	µg/L	0.0323	ppb	15:06:50
3	Mo 202.031†	-12.4	-3.8	-0.4291	µg/L	-0.4291	ppb	15:06:50
3	Ni 231.604†	-52.6	-10.7	-0.3203	µg/L	-0.3203	ppb	15:06:50
3	P 214.914†	-67.5	-8.7	-9.2424	µg/L	-9.2424	ppb	15:06:50
3	Pb 220.353†	98.1	-2.5	-0.5138	µg/L	-0.5138	ppb	15:06:50
3	S 181.975 Axial†	20.4	-2.1	-6.8423	µg/L	-6.8423	ppb	15:06:50
3	Sb 206.836†	2.0	-3.3	-2.0598	µg/L	-2.0598	ppb	15:06:50
3	Se 196.026†	12.7	1.9	2.57	µg/L	2.57	ppb	15:06:50
3	SiO2†	1794.6	6.9	1.2726	µg/L	1.2726	ppb	15:06:50
3	Si 251.611†	415.5	10.1	0.3051	µg/L	0.3051	ppb	15:06:50
3	Sn 189.927†	0.3	2.1	0.8723	µg/L	0.8723	ppb	15:06:50
3	Ti 334.940†	1382.4	-176.5	-0.3124	µg/L	-0.3124	ppb	15:06:30
3	Tl 190.801†	-18.9	-3.0	-3.5945	µg/L	-3.5945	ppb	15:06:50
3	U 367.007†	195.9	-115.5	-31.703	µg/L	-31.703	ppb	15:06:30
3	V 292.402†	328.3	-27.8	-0.2186	µg/L	-0.2186	ppb	15:06:30
3	Zn 213.857†	521.7	-11.4	-0.1449	µg/L	-0.1449	ppb	15:06:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1201357.3	95.356	%	2.8957				3.04%
Sc RADIAL	21272.6	96.6	%	0.40				0.42%
Y 371.029	710473.0	95.348	%	2.8462				2.99%
Ag 328.068†	51.1	0.3554	µg/L	0.35804	0.3554	ppb	0.35804	100.75%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	3.7	5.9423	µg/L	18.54783	5.9423	ppb	18.54783	312.13%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.2	-2.4270	µg/L	3.96166	-2.4270	ppb	3.96166	163.24%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	93.7	1.1249	µg/L	0.07632	1.1249	ppb	0.07632	6.78%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	2.8	0.0377	µg/L	0.16349	0.0377	ppb	0.16349	434.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-294.6	-0.1277	µg/L	0.08173	-0.1277	ppb	0.08173	64.00%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.9	1.9729	µg/L	1.37571	1.9729	ppb	1.37571	69.73%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	4.0	0.0619	µg/L	0.35786	0.0619	ppb	0.35786	577.78%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-1.1	-0.0314	µg/L	0.31887	-0.0314	ppb	0.31887	>999.9%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                0.9      0.0279 µg/L       0.16916      0.0279 ppb        0.16916 606.13%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               94.3      0.6244 µg/L       0.26607      0.6244 ppb        0.26607  42.61%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.7      5.6450 µg/L       7.26943      5.6450 ppb        7.26943 128.78%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -26.0     -32.225 µg/L       17.3251     -32.225 ppb        17.3251  53.76%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -3.8     -26.916 µg/L       38.4690     -26.916 ppb        38.4690 142.92%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               11.8      0.0355 µg/L       0.04874      0.0355 ppb        0.04874 137.36%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -2.3     -0.2614 µg/L       0.33181     -0.2614 ppb        0.33181 126.96%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -6.4     -4.9868 µg/L       6.40071     -4.9868 ppb        6.40071 128.35%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -5.1     -0.1518 µg/L       0.25186     -0.1518 ppb        0.25186 165.88%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               -10.1     -10.769 µg/L        3.8582     -10.769 ppb         3.8582  35.83%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -3.6     -0.7630 µg/L       0.88572     -0.7630 ppb        0.88572 116.08%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.8      6.0006 µg/L      11.68826      6.0006 ppb       11.68826 194.78%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -2.5     -1.5761 µg/L       0.83748     -1.5761 ppb        0.83748  53.14%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                1.6        2.16 µg/L         2.600        2.16 ppb          2.600 120.16%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     29.7      5.4697 µg/L       5.85772      5.4697 ppb        5.85772 107.09%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               32.6      0.9627 µg/L       0.56954      0.9627 ppb        0.56954  59.16%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                4.5      1.8314 µg/L       1.60097      1.8314 ppb        1.60097  87.42%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               16.5      0.1887 µg/L       0.11310      0.1887 ppb        0.11310  59.93%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -154.6     -0.2789 µg/L       0.09646     -0.2789 ppb        0.09646  34.59%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                1.7      2.0472 µg/L       4.96880      2.0472 ppb        4.96880 242.72%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -62.8     -17.246 µg/L       12.5857     -17.246 ppb        12.5857  72.98%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -52.6     -0.3831 µg/L       0.54058     -0.3831 ppb        0.54058 141.10%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               13.8      0.1767 µg/L       0.31927      0.1767 ppb        0.31927 180.68%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 10 **Autosampler Location: 103**
Sample ID: ICSA **Date Collected: 11/6/2013 15:19:13**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20363.3	20363.3	92.5	%			15:19:47
1	Al 396.153Radial†	302618.2	327360.4	525160	µg/L	525160	ppb	15:19:45
1	Ca 317.933Radial†	649762.1	702608.9	478280	µg/L	478280	ppb	15:19:45
1	Fe 238.204 Radial†	51366.8	55522.9	189450	µg/L	189450	ppb	15:19:47
1	K 766.490 Radial†	678.4	81.3	82.010	µg/L	82.010	ppb	15:19:47
1	Mg 279.077 IEC†	63732.7	68920.1	487960	µg/L	487960	ppb	15:19:47
1	Na 589.592 Radial†	-36.3	-6.3	-6.4379	µg/L	-6.4379	ppb	15:19:47
1	Sr 421.552†	166.9	146.9	-2.0505	µg/L	-2.0505	ppb	15:19:47
1	Sc 361.383	1126455.1	1126455.1	89.411	%			15:20:13
1	Y 371.029	649568.4	649568.4	87.174	%			15:20:13
1	Ag 328.068†	2637.6	2280.3	0.2192	µg/L	0.2192	ppb	15:20:13
1	As 188.979†	-13.4	-12.4	7.8467	µg/L	7.8467	ppb	15:20:33
1	B 249.677†	52080.5	57989.2	-12.662	µg/L	-12.662	ppb	15:20:13
1	Ba 233.527†	140.2	239.4	1.0765	µg/L	1.0765	ppb	15:20:33
1	Be 313.107†	-7459.7	-1474.1	-0.6389	µg/L	-0.6389	ppb	15:20:13
1	Cd 226.502†	1366.1	1637.4	0.7805	µg/L	0.7805	ppb	15:20:33
1	Co 228.616†	-50.5	41.9	-0.3819	µg/L	-0.3819	ppb	15:20:33
1	Cr 267.716†	166.7	66.7	2.5635	µg/L	2.5635	ppb	15:20:33
1	Cu 324.752†	-829.6	-4789.7	-2.6397	µg/L	-2.6397	ppb	15:20:33
1	Mn 257.610†	3522.6	3734.6	-3.0220	µg/L	-3.0220	ppb	15:20:13
1	Mo 202.031†	-163.3	-173.8	0.8022	µg/L	0.8022	ppb	15:20:33
1	Ni 231.604†	-7.2	34.8	0.0407	µg/L	0.0407	ppb	15:20:33
1	P 214.914†	42.6	107.7	-25.722	µg/L	-25.722	ppb	15:20:33
1	Pb 220.353†	63.3	-31.6	10.190	µg/L	10.190	ppb	15:20:33
1	S 181.975 Axial†	67.4	52.5	6.4714	µg/L	6.4714	ppb	15:20:33
1	Sb 206.836†	8.2	3.8	7.9321	µg/L	7.9321	ppb	15:20:33
1	Se 196.026†	-33.0	-48.1	0.524	µg/L	0.524	ppb	15:20:33
1	SiO2†	1595.5	-36.7	-6.7388	µg/L	-6.7388	ppb	15:20:33
1	Si 251.611†	666.1	331.9	31.807	µg/L	31.807	ppb	15:20:33
1	Sn 189.927†	-98.9	-108.8	-0.6339	µg/L	-0.6339	ppb	15:20:33
1	Ti 334.940†	-8029.3	-10564.9	2.4943	µg/L	2.4943	ppb	15:20:13
1	Tl 190.801†	-17.6	-3.4	-8.5695	µg/L	-8.5695	ppb	15:20:33
1	U 367.007†	3739.5	3867.4	-2.9977	µg/L	-2.9977	ppb	15:20:13
1	V 292.402†	-3342.4	-4100.6	0.4173	µg/L	0.4173	ppb	15:20:33
1	Zn 213.857†	2457.6	2205.7	0.0796	µg/L	0.0796	ppb	15:20:33
2	Sc RADIAL	20042.1	20042.1	91.0	%			15:19:51
2	Al 396.153Radial†	302127.4	332065.5	532710	µg/L	532710	ppb	15:19:49
2	Ca 317.933Radial†	652159.9	716503.9	487740	µg/L	487740	ppb	15:19:49
2	Fe 238.204 Radial†	50699.9	55680.3	189990	µg/L	189990	ppb	15:19:51
2	K 766.490 Radial†	573.2	-22.5	-46.620	µg/L	-46.620	ppb	15:19:51
2	Mg 279.077 IEC†	62941.7	69155.3	489620	µg/L	489620	ppb	15:19:51
2	Na 589.592 Radial†	-45.4	-17.0	-14.775	µg/L	-14.775	ppb	15:19:51
2	Sr 421.552†	254.1	245.6	-0.9977	µg/L	-0.9977	ppb	15:19:51
2	Sc 361.383	1115008.7	1115008.7	88.502	%			15:20:36
2	Y 371.029	643309.0	643309.0	86.334	%			15:20:36
2	Ag 328.068†	2606.8	2275.8	-0.0634	µg/L	-0.0634	ppb	15:20:36
2	As 188.979†	-14.2	-13.5	5.7959	µg/L	5.7959	ppb	15:20:56
2	B 249.677†	51183.2	57573.3	-19.661	µg/L	-19.661	ppb	15:20:36
2	Ba 233.527†	142.8	243.9	1.1333	µg/L	1.1333	ppb	15:20:56
2	Be 313.107†	-7172.8	-1235.5	-0.5355	µg/L	-0.5355	ppb	15:20:36
2	Cd 226.502†	1332.8	1615.4	0.3662	µg/L	0.3662	ppb	15:20:56
2	Co 228.616†	-37.3	56.2	0.0323	µg/L	0.0323	ppb	15:20:56
2	Cr 267.716†	156.9	57.5	2.3988	µg/L	2.3988	ppb	15:20:56
2	Cu 324.752†	-885.9	-4862.8	-3.0439	µg/L	-3.0439	ppb	15:20:56
2	Mn 257.610†	3360.8	3592.1	-3.4872	µg/L	-3.4872	ppb	15:20:36
2	Mo 202.031†	-191.9	-208.0	-2.9896	µg/L	-2.9896	ppb	15:20:56
2	Ni 231.604†	-3.8	38.6	0.1501	µg/L	0.1501	ppb	15:20:56
2	P 214.914†	48.8	115.2	-16.856	µg/L	-16.856	ppb	15:20:56
2	Pb 220.353†	42.5	-54.4	5.6032	µg/L	5.6032	ppb	15:20:56

2	S 181.975 Axial†	81.3	68.9	58.171	µg/L	58.171	ppb	15:20:56
2	Sb 206.836†	15.6	12.3	13.303	µg/L	13.303	ppb	15:20:56
2	Se 196.026†	-38.6	-54.7	-8.36	µg/L	-8.36	ppb	15:20:56
2	SiO2†	1624.8	14.6	2.7122	µg/L	2.7122	ppb	15:20:56
2	Si 251.611†	711.8	391.1	33.664	µg/L	33.664	ppb	15:20:56
2	Sn 189.927†	-104.2	-115.9	-2.6701	µg/L	-2.6701	ppb	15:20:56
2	Ti 334.940†	-8111.1	-10749.6	2.6429	µg/L	2.6429	ppb	15:20:36
2	Tl 190.801†	-17.1	-3.1	-8.2863	µg/L	-8.2863	ppb	15:20:56
2	U 367.007†	3702.2	3868.1	-7.2220	µg/L	-7.2220	ppb	15:20:36
2	V 292.402†	-3288.5	-4078.1	0.6112	µg/L	0.6112	ppb	15:20:56
2	Zn 213.857†	2470.7	2248.8	0.5432	µg/L	0.5432	ppb	15:20:56
3	Sc RADIAL	20347.6	20347.6	92.4	%			15:19:56
3	Al 396.153Radial†	300101.0	324887.9	521200	µg/L	521200	ppb	15:19:54
3	Ca 317.933Radial†	644321.4	697261.3	474640	µg/L	474640	ppb	15:19:54
3	Fe 238.204 Radial†	51445.5	55650.9	189890	µg/L	189890	ppb	15:19:56
3	K 766.490 Radial†	526.1	-82.9	-121.47	µg/L	-121.47	ppb	15:19:56
3	Mg 279.077 IEC†	63638.9	68871.6	487610	µg/L	487610	ppb	15:19:56
3	Na 589.592 Radial†	-10.1	22.0	15.722	µg/L	15.722	ppb	15:19:56
3	Sr 421.552†	167.2	147.3	-2.0171	µg/L	-2.0171	ppb	15:19:56
3	Sc 361.383	1143407.2	1143407.2	90.756	%			15:20:58
3	Y 371.029	658663.8	658663.8	88.395	%			15:20:58
3	Ag 328.068†	2827.6	2445.9	1.4245	µg/L	1.4245	ppb	15:20:58
3	As 188.979†	-11.8	-10.5	11.719	µg/L	11.719	ppb	15:21:18
3	B 249.677†	52682.6	57789.0	-16.645	µg/L	-16.645	ppb	15:20:58
3	Ba 233.527†	142.6	239.7	1.0760	µg/L	1.0760	ppb	15:21:18
3	Be 313.107†	-7536.9	-1435.4	-0.6221	µg/L	-0.6221	ppb	15:20:58
3	Cd 226.502†	1345.6	1592.2	0.0171	µg/L	0.0171	ppb	15:21:18
3	Co 228.616†	-46.3	47.3	-0.2272	µg/L	-0.2272	ppb	15:21:18
3	Cr 267.716†	128.6	22.0	1.7705	µg/L	1.7705	ppb	15:21:18
3	Cu 324.752†	-905.0	-4859.0	-3.0474	µg/L	-3.0474	ppb	15:21:18
3	Mn 257.610†	3577.3	3736.4	-2.9939	µg/L	-2.9939	ppb	15:20:58
3	Mo 202.031†	-189.7	-200.2	-2.1828	µg/L	-2.1828	ppb	15:21:18
3	Ni 231.604†	19.1	63.8	0.9040	µg/L	0.9040	ppb	15:21:18
3	P 214.914†	22.3	84.7	-51.524	µg/L	-51.524	ppb	15:21:18
3	Pb 220.353†	14.9	-86.0	-1.6347	µg/L	-1.6347	ppb	15:21:18
3	S 181.975 Axial†	79.4	64.6	46.756	µg/L	46.756	ppb	15:21:18
3	Sb 206.836†	1.3	-3.9	3.0464	µg/L	3.0464	ppb	15:21:18
3	Se 196.026†	-38.6	-53.6	-6.83	µg/L	-6.83	ppb	15:21:18
3	SiO2†	1593.9	-65.0	-11.959	µg/L	-11.959	ppb	15:21:18
3	Si 251.611†	713.1	372.6	33.094	µg/L	33.094	ppb	15:21:18
3	Sn 189.927†	-88.5	-95.7	4.3933	µg/L	4.3933	ppb	15:21:18
3	Ti 334.940†	-8339.6	-10773.8	1.9190	µg/L	1.9190	ppb	15:20:58
3	Tl 190.801†	-16.7	-2.1	-6.9963	µg/L	-6.9963	ppb	15:21:18
3	U 367.007†	3765.9	3834.5	-13.587	µg/L	-13.587	ppb	15:20:58
3	V 292.402†	-3329.8	-4031.2	0.9300	µg/L	0.9300	ppb	15:21:18
3	Zn 213.857†	2478.9	2188.4	-0.1835	µg/L	-0.1835	ppb	15:21:18

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1128290.3	89.556	%	1.1341				1.27%
Sc RADIAL	20251.0	92.0	%	0.82				0.89%
Y 371.029	650513.7	87.301	%	1.0362				1.19%
Ag 328.068†	2334.0	0.5267	µg/L	0.79018	0.5267	ppb	0.79018	150.01%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	328104.6	526360	µg/L	5850.0	526360	ppb	5850.0	1.11%
QC value within limits for Al 396.153Radial Recovery = 105.27%								
As 188.979†	-12.2	8.4540	µg/L	3.00798	8.4540	ppb	3.00798	35.58%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	57783.9	-16.323	µg/L	3.5105	-16.323	ppb	3.5105	21.51%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	241.0	1.0952	µg/L	0.03293	1.0952	ppb	0.03293	3.01%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1381.7	-0.5989	µg/L	0.05550	-0.5989	ppb	0.05550	9.27%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	705458.0	480220	µg/L	6762.9	480220	ppb	6762.9	1.41%
QC value within limits for Ca 317.933Radial Recovery = 96.04%								
Cd 226.502†	1615.0	0.3879	µg/L	0.38218	0.3879	ppb	0.38218	98.53%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	48.5	-0.1923	µg/L	0.20931	-0.1923	ppb	0.20931	108.87%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               48.7      2.2443 µg/L       0.41846      2.2443 ppb        0.41846  18.65%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -4837.2     -2.9103 µg/L       0.23438     -2.9103 ppb        0.23438   8.05%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†     55618.1      189780 µg/L         285.6      189780 ppb          285.6   0.15%
   QC value within limits for Fe 238.204 Radial  Recovery = 94.89%
K 766.490 Radial†         -8.0     -28.694 µg/L      102.9183     -28.694 ppb       102.9183 358.68%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†        68982.3      488400 µg/L        1074.6      488400 ppb         1074.6   0.22%
   QC value within limits for Mg 279.077 IEC  Recovery = 97.68%
Mn 257.610†             3687.7     -3.1677 µg/L       0.27708     -3.1677 ppb        0.27708   8.75%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†             -194.0     -1.4568 µg/L       1.99745     -1.4568 ppb        1.99745 137.12%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -0.5     -1.8304 µg/L      15.76182     -1.8304 ppb       15.76182 861.12%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               45.8      0.3650 µg/L       0.47001      0.3650 ppb        0.47001 128.79%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               102.5     -31.367 µg/L       18.0102     -31.367 ppb        18.0102  57.42%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -57.3      4.7195 µg/L       5.96162      4.7195 ppb        5.96162 126.32%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          62.0      37.133 µg/L       27.1602      37.133 ppb        27.1602  73.14%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                4.1      8.0940 µg/L       5.13041      8.0940 ppb        5.13041  63.39%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -52.1       -4.89 µg/L         4.749       -4.89 ppb          4.749  97.14%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -29.0     -5.3286 µg/L       7.43669     -5.3286 ppb        7.43669 139.56%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              365.2      32.855 µg/L        0.9514      32.855 ppb         0.9514   2.90%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -106.8      0.3631 µg/L       3.63572      0.3631 ppb        3.63572 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              179.9     -1.6884 µg/L       0.59839     -1.6884 ppb        0.59839  35.44%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†           -10696.1      2.3521 µg/L       0.38231      2.3521 ppb        0.38231  16.25%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -2.9     -7.9507 µg/L       0.83856     -7.9507 ppb        0.83856  10.55%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†              3856.7     -7.9355 µg/L       5.33055     -7.9355 ppb        5.33055  67.17%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†             -4070.0      0.6528 µg/L       0.25889      0.6528 ppb        0.25889  39.66%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             2214.3      0.1464 µg/L       0.36789      0.1464 ppb        0.36789 251.26%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 11 **Autosampler Location: 104**
Sample ID: ICSAB **Date Collected: 11/6/2013 15:21:26**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20380.0	20380.0	92.5	%			15:21:58
1	Al 396.153Radial†	302480.5	326943.2	524490	µg/L	524490	ppb	15:21:56
1	Ca 317.933Radial†	648004.9	700133.7	476600	µg/L	476600	ppb	15:21:56
1	Fe 238.204 Radial†	51477.3	55596.8	189690	µg/L	189690	ppb	15:21:58
1	K 766.490 Radial†	4495.0	4204.9	5197.2	µg/L	5197.2	ppb	15:21:58
1	Mg 279.077 IEC†	63652.0	68776.3	486940	µg/L	486940	ppb	15:21:58
1	Na 589.592 Radial†	6551.5	7112.3	5560.3	µg/L	5560.3	ppb	15:21:58
1	Sr 421.552†	40812.8	44067.5	499.24	µg/L	499.24	ppb	15:21:58
1	Sc 361.383	1132595.1	1132595.1	89.898	%			15:22:24
1	Y 371.029	653746.6	653746.6	87.735	%			15:22:24
1	Ag 328.068†	37930.8	41523.4	263.95	µg/L	263.95	ppb	15:22:24
1	As 188.979†	208.8	234.8	501.27	µg/L	501.27	ppb	15:22:44
1	B 249.677†	87518.0	97093.1	458.73	µg/L	458.73	ppb	15:22:24
1	Ba 233.527†	30710.9	34244.5	480.45	µg/L	480.45	ppb	15:22:44
1	Be 313.107†	487738.4	549415.6	238.13	µg/L	238.13	ppb	15:22:24
1	Cd 226.502†	27139.7	30299.0	448.49	µg/L	448.49	ppb	15:22:44
1	Co 228.616†	13351.8	14950.6	438.16	µg/L	438.16	ppb	15:22:44
1	Cr 267.716†	23055.0	25526.0	468.54	µg/L	468.54	ppb	15:22:44
1	Cu 324.752†	72511.0	76797.4	544.47	µg/L	544.47	ppb	15:22:24
1	Mn 257.610†	143925.6	159893.5	452.19	µg/L	452.19	ppb	15:22:24
1	Mo 202.031†	3620.2	4035.8	476.29	µg/L	476.29	ppb	15:22:44
1	Ni 231.604†	12977.3	14478.4	430.88	µg/L	430.88	ppb	15:22:44
1	P 214.914†	2128.4	2427.6	2425.0	µg/L	2425.0	ppb	15:22:44
1	Pb 220.353†	2004.6	2127.4	474.11	µg/L	474.11	ppb	15:22:44
1	S 181.975 Axial†	750.1	811.5	2488.5	µg/L	2488.5	ppb	15:22:44
1	Sb 206.836†	699.0	772.3	493.69	µg/L	493.69	ppb	15:22:44
1	Se 196.026†	1448.7	1600.4	2250	µg/L	2250	ppb	15:22:44
1	SiO2†	52340.4	56400.8	10389	µg/L	10389	ppb	15:22:24
1	Si 251.611†	150133.1	166590.7	4919.2	µg/L	4919.2	ppb	15:22:24
1	Sn 189.927†	949.7	1058.3	473.98	µg/L	473.98	ppb	15:22:44
1	Ti 334.940†	230936.5	255302.6	497.32	µg/L	497.32	ppb	15:22:24
1	Tl 190.801†	339.9	394.4	469.57	µg/L	469.57	ppb	15:22:44
1	U 367.007†	5374.0	5662.9	486.44	µg/L	486.44	ppb	15:22:24
1	V 292.402†	59163.4	65449.4	497.60	µg/L	497.60	ppb	15:22:24
1	Zn 213.857†	35288.5	38711.0	463.04	µg/L	463.04	ppb	15:22:44
2	Sc RADIAL	20254.7	20254.7	92.0	%			15:22:02
2	Al 396.153Radial†	300071.9	326346.6	523530	µg/L	523530	ppb	15:22:00
2	Ca 317.933Radial†	636130.6	691555.5	470760	µg/L	470760	ppb	15:22:00
2	Fe 238.204 Radial†	51323.6	55773.9	190300	µg/L	190300	ppb	15:22:02
2	K 766.490 Radial†	4529.7	4272.6	5281.1	µg/L	5281.1	ppb	15:22:02
2	Mg 279.077 IEC†	63324.3	68845.5	487430	µg/L	487430	ppb	15:22:02
2	Na 589.592 Radial†	6550.4	7154.8	5593.5	µg/L	5593.5	ppb	15:22:02
2	Sr 421.552†	40720.8	44240.3	501.25	µg/L	501.25	ppb	15:22:02
2	Sc 361.383	1125838.6	1125838.6	89.362	%			15:22:46
2	Y 371.029	649796.2	649796.2	87.205	%			15:22:46
2	Ag 328.068†	37926.7	41772.1	265.77	µg/L	265.77	ppb	15:22:46
2	As 188.979†	208.7	236.1	503.79	µg/L	503.79	ppb	15:23:06
2	B 249.677†	87523.4	97683.4	463.56	µg/L	463.56	ppb	15:22:46
2	Ba 233.527†	30549.4	34268.8	480.80	µg/L	480.80	ppb	15:23:06
2	Be 313.107†	488355.8	553362.6	239.84	µg/L	239.84	ppb	15:22:46
2	Cd 226.502†	26993.2	30316.2	448.68	µg/L	448.68	ppb	15:23:06
2	Co 228.616†	13302.1	14984.1	439.14	µg/L	439.14	ppb	15:23:06
2	Cr 267.716†	22875.7	25479.3	467.69	µg/L	467.69	ppb	15:23:06
2	Cu 324.752†	72617.6	77400.8	548.60	µg/L	548.60	ppb	15:22:46
2	Mn 257.610†	143824.4	160741.1	454.65	µg/L	454.65	ppb	15:22:46
2	Mo 202.031†	3631.7	4072.9	480.50	µg/L	480.50	ppb	15:23:06
2	Ni 231.604†	12899.0	14477.5	430.85	µg/L	430.85	ppb	15:23:06
2	P 214.914†	2125.8	2438.9	2435.9	µg/L	2435.9	ppb	15:23:06
2	Pb 220.353†	2043.6	2184.4	486.28	µg/L	486.28	ppb	15:23:06

2	S 181.975 Axial†	746.9	812.9	2493.9 µg/L	2493.9 ppb	15:23:06
2	Sb 206.836†	701.3	779.4	498.28 µg/L	498.28 ppb	15:23:06
2	Se 196.026†	1444.5	1605.4	2250 µg/L	2250 ppb	15:23:06
2	SiO2†	52416.7	56835.5	10469 µg/L	10469 ppb	15:22:46
2	Si 251.611†	150478.7	167979.7	4960.1 µg/L	4960.1 ppb	15:22:46
2	Sn 189.927†	931.6	1044.3	467.77 µg/L	467.77 ppb	15:23:06
2	Ti 334.940†	231437.5	257404.9	500.92 µg/L	500.92 ppb	15:22:46
2	Tl 190.801†	324.5	379.4	451.44 µg/L	451.44 ppb	15:23:06
2	U 367.007†	5376.9	5702.0	495.08 µg/L	495.08 ppb	15:22:46
2	V 292.402†	59539.3	66265.0	503.50 µg/L	503.50 ppb	15:22:46
2	Zn 213.857†	35080.5	38713.8	463.01 µg/L	463.01 ppb	15:23:06
3	Sc RADIAL	20404.2	20404.2	92.7 %		15:22:06
3	Al 396.153Radial†	303020.5	327139.0	524800 µg/L	524800 ppb	15:22:04
3	Ca 317.933Radial†	647402.1	698654.2	475590 µg/L	475590 ppb	15:22:04
3	Fe 238.204 Radial†	51556.7	55616.6	189760 µg/L	189760 ppb	15:22:06
3	K 766.490 Radial†	4578.2	4288.9	5301.4 µg/L	5301.4 ppb	15:22:06
3	Mg 279.077 IEC†	64143.1	69224.9	490110 µg/L	490110 ppb	15:22:06
3	Na 589.592 Radial†	6498.8	7047.0	5509.2 µg/L	5509.2 ppb	15:22:06
3	Sr 421.552†	41036.7	44256.9	501.41 µg/L	501.41 ppb	15:22:06
3	Sc 361.383	1135474.1	1135474.1	90.126 %		15:23:08
3	Y 371.029	655266.2	655266.2	87.939 %		15:23:08
3	Ag 328.068†	38298.9	41824.9	266.01 µg/L	266.01 ppb	15:23:08
3	As 188.979†	201.7	226.3	484.48 µg/L	484.48 ppb	15:23:29
3	B 249.677†	88501.6	97937.7	468.63 µg/L	468.63 ppb	15:23:08
3	Ba 233.527†	30627.5	34065.4	477.95 µg/L	477.95 ppb	15:23:29
3	Be 313.107†	493270.6	554178.3	240.19 µg/L	240.19 ppb	15:23:08
3	Cd 226.502†	27029.3	30099.9	445.37 µg/L	445.37 ppb	15:23:29
3	Co 228.616†	13286.7	14840.7	434.91 µg/L	434.91 ppb	15:23:29
3	Cr 267.716†	22935.4	25328.3	464.89 µg/L	464.89 ppb	15:23:29
3	Cu 324.752†	73141.1	77292.0	547.80 µg/L	547.80 ppb	15:23:08
3	Mn 257.610†	145304.4	161017.4	455.35 µg/L	455.35 ppb	15:23:08
3	Mo 202.031†	3630.7	4037.3	476.57 µg/L	476.57 ppb	15:23:29
3	Ni 231.604†	12920.6	14378.9	427.91 µg/L	427.91 ppb	15:23:29
3	P 214.914†	2121.3	2413.8	2410.3 µg/L	2410.3 ppb	15:23:29
3	Pb 220.353†	2020.6	2139.5	476.71 µg/L	476.71 ppb	15:23:29
3	S 181.975 Axial†	728.8	785.8	2404.3 µg/L	2404.3 ppb	15:23:29
3	Sb 206.836†	706.0	778.0	497.41 µg/L	497.41 ppb	15:23:29
3	Se 196.026†	1437.3	1583.7	2220 µg/L	2220 ppb	15:23:29
3	SiO2†	52819.2	56784.3	10460 µg/L	10460 ppb	15:23:08
3	Si 251.611†	151612.9	167809.2	4955.1 µg/L	4955.1 ppb	15:23:08
3	Sn 189.927†	953.6	1059.9	474.56 µg/L	474.56 ppb	15:23:29
3	Ti 334.940†	233481.4	257474.9	501.30 µg/L	501.30 ppb	15:23:08
3	Tl 190.801†	328.0	380.1	452.33 µg/L	452.33 ppb	15:23:29
3	U 367.007†	5382.1	5656.6	484.41 µg/L	484.41 ppb	15:23:08
3	V 292.402†	60090.0	66310.6	503.67 µg/L	503.67 ppb	15:23:08
3	Zn 213.857†	35106.0	38409.0	459.14 µg/L	459.14 ppb	15:23:29

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1131302.6	89.795	%	0.3926				0.44%
Sc RADIAL	20346.3	92.4	%	0.36				0.39%
Y 371.029	652936.3	87.626	%	0.3789				0.43%
Ag 328.068†	41706.8	265.24	µg/L	1.127	265.24	ppb	1.127	0.42%
QC value within limits for Ag 328.068 Recovery = 106.10%								
Al 396.153Radial†	326809.6	524270	µg/L	663.2	524270	ppb	663.2	0.13%
QC value within limits for Al 396.153Radial Recovery = 104.85%								
As 188.979†	232.4	496.52	µg/L	10.497	496.52	ppb	10.497	2.11%
QC value within limits for As 188.979 Recovery = 99.30%								
B 249.677†	97571.4	463.64	µg/L	4.951	463.64	ppb	4.951	1.07%
QC value within limits for B 249.677 Recovery = 92.73%								
Ba 233.527†	34192.9	479.73	µg/L	1.555	479.73	ppb	1.555	0.32%
QC value within limits for Ba 233.527 Recovery = 95.95%								
Be 313.107†	552318.8	239.39	µg/L	1.104	239.39	ppb	1.104	0.46%
QC value within limits for Be 313.107 Recovery = 95.76%								
Ca 317.933Radial†	696781.1	474320	µg/L	3122.2	474320	ppb	3122.2	0.66%
QC value within limits for Ca 317.933Radial Recovery = 94.86%								
Cd 226.502†	30238.4	447.51	µg/L	1.858	447.51	ppb	1.858	0.42%
QC value within limits for Cd 226.502 Recovery = 89.50%								
Co 228.616†	14925.1	437.40	µg/L	2.211	437.40	ppb	2.211	0.51%

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   QC value within limits for Co 228.616  Recovery = 87.48%
Cr 267.716†            25444.5      467.04 µg/L         1.912      467.04 ppb          1.912   0.41%
   QC value within limits for Cr 267.716  Recovery = 93.41%
Cu 324.752†            77163.4      546.96 µg/L         2.193      546.96 ppb          2.193   0.40%
   QC value within limits for Cu 324.752  Recovery = 109.39%
Fe 238.204 Radial†     55662.4      189920 µg/L         330.9      189920 ppb          330.9   0.17%
   QC value within limits for Fe 238.204 Radial  Recovery = 94.96%
K 766.490 Radial†       4255.5      5259.9 µg/L         55.22      5259.9 ppb          55.22   1.05%
   QC value within limits for K 766.490 Radial  Recovery = 105.20%
Mg 279.077 IEC†        68948.9      488160 µg/L        1709.6      488160 ppb         1709.6   0.35%
   QC value within limits for Mg 279.077 IEC  Recovery = 97.63%
Mn 257.610†           160550.7      454.06 µg/L         1.660      454.06 ppb          1.660   0.37%
   QC value within limits for Mn 257.610  Recovery = 90.81%
Mo 202.031†             4048.7      477.79 µg/L         2.356      477.79 ppb          2.356   0.49%
   QC value within limits for Mo 202.031  Recovery = 95.56%
Na 589.592 Radial†      7104.7      5554.3 µg/L         42.45      5554.3 ppb          42.45   0.76%
   QC value within limits for Na 589.592 Radial  Recovery = 111.09%
Ni 231.604†            14444.9      429.88 µg/L         1.704      429.88 ppb          1.704   0.40%
   QC value within limits for Ni 231.604  Recovery = 85.98%
P 214.914†              2426.8      2423.7 µg/L         12.88      2423.7 ppb          12.88   0.53%
   QC value within limits for P 214.914  Recovery = 96.95%
Pb 220.353†             2150.4      479.04 µg/L         6.411      479.04 ppb          6.411   1.34%
   QC value within limits for Pb 220.353  Recovery = 95.81%
S 181.975 Axial†         803.4      2462.2 µg/L         50.28      2462.2 ppb          50.28   2.04%
   QC value within limits for S 181.975 Axial  Recovery = 98.49%
Sb 206.836†              776.6      496.46 µg/L         2.435      496.46 ppb          2.435   0.49%
   QC value within limits for Sb 206.836  Recovery = 99.29%
Se 196.026†             1596.5        2240 µg/L          15.5        2240 ppb           15.5   0.69%
   QC value within limits for Se 196.026  Recovery = 89.59%
SiO2†                  56673.5       10440 µg/L          43.7       10440 ppb           43.7   0.42%
   QC value within limits for SiO2  Recovery = 97.61%
Si 251.611†           167459.9      4944.8 µg/L         22.30      4944.8 ppb          22.30   0.45%
   QC value within limits for Si 251.611  Recovery = 98.90%
Sn 189.927†             1054.2      472.10 µg/L         3.764      472.10 ppb          3.764   0.80%
   QC value within limits for Sn 189.927  Recovery = 94.42%
Sr 421.552†            44188.3      500.63 µg/L         1.211      500.63 ppb          1.211   0.24%
   QC value within limits for Sr 421.552  Recovery = 100.13%
Ti 334.940†           256727.5      499.85 µg/L         2.196      499.85 ppb          2.196   0.44%
   QC value within limits for Ti 334.940  Recovery = 99.97%
Tl 190.801†              384.6      457.78 µg/L        10.218      457.78 ppb         10.218   2.23%
   QC value within limits for Tl 190.801  Recovery = 91.56%
U 367.007†              5673.8      488.64 µg/L         5.665      488.64 ppb          5.665   1.16%
   QC value within limits for U 367.007  Recovery = 97.73%
V 292.402†             66008.3      501.59 µg/L         3.457      501.59 ppb          3.457   0.69%
   QC value within limits for V 292.402  Recovery = 100.32%
Zn 213.857†            38611.3      461.73 µg/L         2.243      461.73 ppb          2.243   0.49%
   QC value within limits for Zn 213.857  Recovery = 92.35%
All analyte(s) passed QC.
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Sequence No.: 12 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 15:23:37**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21478.9	21478.9	97.5	%			15:24:08
1	Al 396.153Radial†	3178.8	3350.3	5369.9	µg/L	5369.9	ppb	15:24:28
1	Ca 317.933Radial†	7317.0	7419.7	5050.8	µg/L	5050.8	ppb	15:24:28
1	Fe 238.204 Radial†	1507.0	1516.9	5161.0	µg/L	5161.0	ppb	15:24:28
1	K 766.490 Radial†	4515.7	3977.6	4931.9	µg/L	4931.9	ppb	15:24:08
1	Mg 279.077 IEC†	736.5	750.8	5316.4	µg/L	5316.4	ppb	15:24:28
1	Na 589.592 Radial†	13486.2	13860.1	10838	µg/L	10838	ppb	15:24:08
1	Sr 421.552†	41978.8	43006.6	490.80	µg/L	490.80	ppb	15:24:08
1	Sc 361.383	1242900.0	1242900.0	98.653	%			15:25:30
1	Y 371.029	719927.6	719927.6	96.617	%			15:25:30
1	Ag 328.068†	72766.8	73090.5	489.77	µg/L	489.77	ppb	15:25:32
1	As 188.979†	236.5	242.3	484.55	µg/L	484.55	ppb	15:25:52
1	B 249.677†	39243.2	39519.4	458.10	µg/L	458.10	ppb	15:25:32
1	Ba 233.527†	33587.2	34128.3	481.02	µg/L	481.02	ppb	15:25:32
1	Be 313.107†	1104027.9	1125968.3	488.02	µg/L	488.02	ppb	15:25:30
1	Cd 226.502†	30127.0	30647.8	478.10	µg/L	478.10	ppb	15:25:32
1	Co 228.616†	16134.5	16453.2	483.99	µg/L	483.99	ppb	15:25:32
1	Cr 267.716†	26025.5	26261.1	480.79	µg/L	480.79	ppb	15:25:32
1	Cu 324.752†	74968.5	72130.0	484.47	µg/L	484.47	ppb	15:25:32
1	Mn 257.610†	163762.7	165793.0	483.17	µg/L	483.17	ppb	15:25:32
1	Mo 202.031†	4212.6	4278.9	483.62	µg/L	483.62	ppb	15:25:52
1	Ni 231.604†	15915.3	16175.4	482.47	µg/L	482.47	ppb	15:25:32
1	P 214.914†	2237.1	2327.7	2454.3	µg/L	2454.3	ppb	15:25:52
1	Pb 220.353†	2331.9	2261.3	486.04	µg/L	486.04	ppb	15:25:52
1	S 181.975 Axial†	310.3	291.6	950.12	µg/L	950.12	ppb	15:25:52
1	Sb 206.836†	771.1	776.3	490.76	µg/L	490.76	ppb	15:25:52
1	Se 196.026†	375.7	369.7	505	µg/L	505	ppb	15:25:52
1	SiO2†	29420.0	28000.3	5162.8	µg/L	5162.8	ppb	15:25:32
1	Si 251.611†	81508.7	82208.2	2413.9	µg/L	2413.9	ppb	15:25:32
1	Sn 189.927†	1185.2	1203.3	489.94	µg/L	489.94	ppb	15:25:52
1	Ti 334.940†	257610.1	259542.1	483.38	µg/L	483.38	ppb	15:25:32
1	Tl 190.801†	369.2	390.5	468.68	µg/L	468.68	ppb	15:25:52
1	U 367.007†	1974.2	1686.1	432.87	µg/L	432.87	ppb	15:25:32
1	V 292.402†	67438.3	67996.6	487.10	µg/L	487.10	ppb	15:25:32
1	Zn 213.857†	37620.3	37591.0	475.93	µg/L	475.93	ppb	15:25:32
2	Sc RADIAL	21595.3	21595.3	98.1	%			15:24:30
2	Al 396.153Radial†	3129.0	3282.0	5260.3	µg/L	5260.3	ppb	15:24:50
2	Ca 317.933Radial†	7218.0	7278.3	4954.5	µg/L	4954.5	ppb	15:24:50
2	Fe 238.204 Radial†	1485.7	1486.9	5058.5	µg/L	5058.5	ppb	15:24:50
2	K 766.490 Radial†	4701.5	4142.1	5135.8	µg/L	5135.8	ppb	15:24:30
2	Mg 279.077 IEC†	723.7	733.7	5194.9	µg/L	5194.9	ppb	15:24:50
2	Na 589.592 Radial†	13517.7	13817.7	10805	µg/L	10805	ppb	15:24:30
2	Sr 421.552†	42289.5	43091.5	491.77	µg/L	491.77	ppb	15:24:30
2	Sc 361.383	1228328.1	1228328.1	97.497	%			15:25:54
2	Y 371.029	711593.1	711593.1	95.498	%			15:25:54
2	Ag 328.068†	73247.8	74458.8	498.93	µg/L	498.93	ppb	15:25:57
2	As 188.979†	226.8	235.2	470.62	µg/L	470.62	ppb	15:26:17
2	B 249.677†	39429.3	40182.3	466.44	µg/L	466.44	ppb	15:25:57
2	Ba 233.527†	33844.4	34796.0	490.43	µg/L	490.43	ppb	15:25:57
2	Be 313.107†	1094148.5	1129111.3	489.38	µg/L	489.38	ppb	15:25:54
2	Cd 226.502†	30348.9	31237.6	487.33	µg/L	487.33	ppb	15:25:57
2	Co 228.616†	16147.1	16660.1	490.07	µg/L	490.07	ppb	15:25:57
2	Cr 267.716†	26079.0	26628.9	487.51	µg/L	487.51	ppb	15:25:57
2	Cu 324.752†	75609.1	73688.7	494.91	µg/L	494.91	ppb	15:25:57
2	Mn 257.610†	164705.7	168729.5	491.73	µg/L	491.73	ppb	15:25:57
2	Mo 202.031†	4185.8	4302.2	486.24	µg/L	486.24	ppb	15:26:17
2	Ni 231.604†	15985.9	16439.2	490.34	µg/L	490.34	ppb	15:25:57
2	P 214.914†	2185.0	2301.2	2426.1	µg/L	2426.1	ppb	15:26:17
2	Pb 220.353†	2313.1	2270.0	487.90	µg/L	487.90	ppb	15:26:17

2	S 181.975 Axial†	302.0	286.8	934.46 µg/L	934.46 ppb	15:26:17
2	Sb 206.836†	754.0	768.0	485.47 µg/L	485.47 ppb	15:26:17
2	Se 196.026†	355.8	353.9	483 µg/L	483 ppb	15:26:17
2	SiO2†	29634.7	28574.3	5268.6 µg/L	5268.6 ppb	15:25:57
2	Si 251.611†	81867.2	83556.1	2453.5 µg/L	2453.5 ppb	15:25:57
2	Sn 189.927†	1165.4	1197.2	487.45 µg/L	487.45 ppb	15:26:17
2	Ti 334.940†	259282.8	264355.5	492.33 µg/L	492.33 ppb	15:25:57
2	Tl 190.801†	376.5	402.4	483.08 µg/L	483.08 ppb	15:26:17
2	U 367.007†	2030.0	1767.1	455.60 µg/L	455.60 ppb	15:25:57
2	V 292.402†	67815.2	69194.2	495.58 µg/L	495.58 ppb	15:25:57
2	Zn 213.857†	37994.9	38427.5	486.57 µg/L	486.57 ppb	15:25:57
3	Sc RADIAL	21410.7	21410.7	97.2 %		15:24:52
3	Al 396.153Radial†	3046.0	3224.1	5167.6 µg/L	5167.6 ppb	15:25:12
3	Ca 317.933Radial†	6962.5	7079.1	4818.9 µg/L	4818.9 ppb	15:25:12
3	Fe 238.204 Radial†	1437.0	1449.9	4932.1 µg/L	4932.1 ppb	15:25:12
3	K 766.490 Radial†	4616.4	4095.9	5078.5 µg/L	5078.5 ppb	15:24:52
3	Mg 279.077 IEC†	697.6	713.2	5050.1 µg/L	5050.1 ppb	15:25:12
3	Na 589.592 Radial†	13433.4	13849.9	10830 µg/L	10830 ppb	15:24:52
3	Sr 421.552†	42017.7	43183.9	492.83 µg/L	492.83 ppb	15:24:52
3	Sc 361.383	1234107.9	1234107.9	97.955 %		15:26:19
3	Y 371.029	715140.9	715140.9	95.974 %		15:26:19
3	Ag 328.068†	73464.6	74328.3	498.07 µg/L	498.07 ppb	15:26:21
3	As 188.979†	224.0	231.2	462.74 µg/L	462.74 ppb	15:26:41
3	B 249.677†	39671.7	40240.3	467.64 µg/L	467.64 ppb	15:26:21
3	Ba 233.527†	34017.7	34810.3	490.63 µg/L	490.63 ppb	15:26:21
3	Be 313.107†	1096726.1	1126486.8	488.25 µg/L	488.25 ppb	15:26:19
3	Cd 226.502†	30406.5	31150.6	485.99 µg/L	485.99 ppb	15:26:21
3	Co 228.616†	16150.5	16586.0	487.88 µg/L	487.88 ppb	15:26:21
3	Cr 267.716†	26217.7	26645.2	487.82 µg/L	487.82 ppb	15:26:21
3	Cu 324.752†	75689.0	73407.0	493.00 µg/L	493.00 ppb	15:26:21
3	Mn 257.610†	165406.0	168653.3	491.51 µg/L	491.51 ppb	15:26:21
3	Mo 202.031†	4083.3	4177.4	472.14 µg/L	472.14 ppb	15:26:41
3	Ni 231.604†	16128.2	16507.7	492.38 µg/L	492.38 ppb	15:26:21
3	P 214.914†	2114.1	2218.2	2338.4 µg/L	2338.4 ppb	15:26:41
3	Pb 220.353†	2248.4	2192.9	471.36 µg/L	471.36 ppb	15:26:41
3	S 181.975 Axial†	307.9	291.4	949.65 µg/L	949.65 ppb	15:26:41
3	Sb 206.836†	740.4	750.5	474.26 µg/L	474.26 ppb	15:26:41
3	Se 196.026†	354.4	350.7	479 µg/L	479 ppb	15:26:41
3	SiO2†	29674.5	28472.6	5249.8 µg/L	5249.8 ppb	15:26:21
3	Si 251.611†	82264.8	83568.8	2454.1 µg/L	2454.1 ppb	15:26:21
3	Sn 189.927†	1129.0	1154.4	470.06 µg/L	470.06 ppb	15:26:41
3	Ti 334.940†	259860.3	263699.6	491.11 µg/L	491.11 ppb	15:26:21
3	Tl 190.801†	355.5	379.2	454.90 µg/L	454.90 ppb	15:26:41
3	U 367.007†	1951.8	1677.5	431.69 µg/L	431.69 ppb	15:26:21
3	V 292.402†	67958.7	69014.9	494.11 µg/L	494.11 ppb	15:26:21
3	Zn 213.857†	38115.8	38368.5	485.82 µg/L	485.82 ppb	15:26:21

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1235112.0	98.035	%	0.5824				0.59%
Sc RADIAL	21495.0	97.6	%	0.42				0.43%
Y 371.029	715553.9	96.030	%	0.5613				0.58%
Ag 328.068†	73959.2	495.59	µg/L	5.057	495.59	ppb	5.057	1.02%
QC value within limits for Ag 328.068 Recovery = 99.12%								
Al 396.153Radial†	3285.5	5265.9	µg/L	101.29	5265.9	ppb	101.29	1.92%
QC value within limits for Al 396.153Radial Recovery = 105.32%								
As 188.979†	236.2	472.64	µg/L	11.041	472.64	ppb	11.041	2.34%
QC value within limits for As 188.979 Recovery = 94.53%								
B 249.677†	39980.7	464.06	µg/L	5.194	464.06	ppb	5.194	1.12%
QC value within limits for B 249.677 Recovery = 92.81%								
Ba 233.527†	34578.2	487.36	µg/L	5.492	487.36	ppb	5.492	1.13%
QC value within limits for Ba 233.527 Recovery = 97.47%								
Be 313.107†	1127188.8	488.55	µg/L	0.730	488.55	ppb	0.730	0.15%
QC value within limits for Be 313.107 Recovery = 97.71%								
Ca 317.933Radial†	7259.0	4941.4	µg/L	116.50	4941.4	ppb	116.50	2.36%
QC value within limits for Ca 317.933Radial Recovery = 98.83%								
Cd 226.502†	31012.0	483.81	µg/L	4.986	483.81	ppb	4.986	1.03%
QC value within limits for Cd 226.502 Recovery = 96.76%								
Co 228.616†	16566.4	487.32	µg/L	3.078	487.32	ppb	3.078	0.63%

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   QC value within limits for Co 228.616  Recovery = 97.46%
Cr 267.716†            26511.7      485.38 µg/L         3.972      485.38 ppb          3.972   0.82%
   QC value within limits for Cr 267.716  Recovery = 97.08%
Cu 324.752†            73075.2      490.79 µg/L         5.560      490.79 ppb          5.560   1.13%
   QC value within limits for Cu 324.752  Recovery = 98.16%
Fe 238.204 Radial†      1484.6      5050.6 µg/L        114.65      5050.6 ppb         114.65   2.27%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.01%
K 766.490 Radial†       4071.8      5048.7 µg/L        105.13      5048.7 ppb         105.13   2.08%
   QC value within limits for K 766.490 Radial  Recovery = 100.97%
Mg 279.077 IEC†          732.6      5187.1 µg/L        133.30      5187.1 ppb         133.30   2.57%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.74%
Mn 257.610†           167725.3      488.80 µg/L         4.881      488.80 ppb          4.881   1.00%
   QC value within limits for Mn 257.610  Recovery = 97.76%
Mo 202.031†             4252.8      480.67 µg/L         7.502      480.67 ppb          7.502   1.56%
   QC value within limits for Mo 202.031  Recovery = 96.13%
Na 589.592 Radial†     13842.6       10825 µg/L          17.3       10825 ppb           17.3   0.16%
   QC value within limits for Na 589.592 Radial  Recovery = 108.25%
Ni 231.604†            16374.1      488.40 µg/L         5.233      488.40 ppb          5.233   1.07%
   QC value within limits for Ni 231.604  Recovery = 97.68%
P 214.914†              2282.4      2406.2 µg/L         60.43      2406.2 ppb          60.43   2.51%
   QC value within limits for P 214.914  Recovery = 96.25%
Pb 220.353†             2241.4      481.77 µg/L         9.059      481.77 ppb          9.059   1.88%
   QC value within limits for Pb 220.353  Recovery = 96.35%
S 181.975 Axial†         290.0      944.74 µg/L         8.906      944.74 ppb          8.906   0.94%
   QC value within limits for S 181.975 Axial  Recovery = 94.47%
Sb 206.836†              764.9      483.50 µg/L         8.423      483.50 ppb          8.423   1.74%
   QC value within limits for Sb 206.836  Recovery = 96.70%
Se 196.026†              358.1         489 µg/L          13.9         489 ppb           13.9   2.84%
   QC value within limits for Se 196.026  Recovery = 97.81%
SiO2†                  28349.1      5227.1 µg/L         56.45      5227.1 ppb          56.45   1.08%
   QC value within limits for SiO2  Recovery = 97.75%
Si 251.611†            83111.1      2440.5 µg/L         23.04      2440.5 ppb          23.04   0.94%
   QC value within limits for Si 251.611  Recovery = 97.62%
Sn 189.927†             1185.0      482.49 µg/L        10.834      482.49 ppb         10.834   2.25%
   QC value within limits for Sn 189.927  Recovery = 96.50%
Sr 421.552†            43094.0      491.80 µg/L         1.013      491.80 ppb          1.013   0.21%
   QC value within limits for Sr 421.552  Recovery = 98.36%
Ti 334.940†           262532.4      488.94 µg/L         4.854      488.94 ppb          4.854   0.99%
   QC value within limits for Ti 334.940  Recovery = 97.79%
Tl 190.801†              390.7      468.89 µg/L        14.090      468.89 ppb         14.090   3.00%
   QC value within limits for Tl 190.801  Recovery = 93.78%
U 367.007†              1710.3      440.05 µg/L        13.476      440.05 ppb         13.476   3.06%
   QC value less than the lower limit for U 367.007  Recovery = 88.01%
V 292.402†             68735.2      492.26 µg/L         4.533      492.26 ppb          4.533   0.92%
   QC value within limits for V 292.402  Recovery = 98.45%
Zn 213.857†            38129.0      482.77 µg/L         5.935      482.77 ppb          5.935   1.23%
   QC value within limits for Zn 213.857  Recovery = 96.55%
QC Failed.  Continue with analysis.
```

Sequence No.: 13 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 15:26:49**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20390.8	20390.8	92.6	%			15:27:36
1	Al 396.153Radial†	-79.4	5.5	8.7539	µg/L	8.7539	ppb	15:27:36
1	Ca 317.933Radial†	84.0	8.5	5.7947	µg/L	5.7947	ppb	15:27:56
1	Fe 238.204 Radial†	29.8	4.0	13.795	µg/L	13.795	ppb	15:27:56
1	K 766.490 Radial†	608.2	4.6	5.6403	µg/L	5.6403	ppb	15:27:36
1	Mg 279.077 IEC†	-0.7	-5.0	-35.384	µg/L	-35.384	ppb	15:27:56
1	Na 589.592 Radial†	-39.1	-9.3	-7.2908	µg/L	-7.2908	ppb	15:27:36
1	Sr 421.552†	51.9	22.4	0.2554	µg/L	0.2554	ppb	15:27:36
1	Sc 361.383	1210240.7	1210240.7	96.061	%			15:29:34
1	Y 371.029	715489.9	715489.9	96.021	%			15:29:34
1	Ag 328.068†	456.4	-194.5	-1.2995	µg/L	-1.2995	ppb	15:29:36
1	As 188.979†	-4.6	-2.2	-4.4137	µg/L	-4.4137	ppb	15:29:56
1	B 249.677†	344.7	99.3	1.1477	µg/L	1.1477	ppb	15:29:56
1	Ba 233.527†	-86.6	-7.6	-0.1068	µg/L	-0.1068	ppb	15:29:56
1	Be 313.107†	-7079.0	-500.1	-0.2168	µg/L	-0.2168	ppb	15:29:36
1	Cd 226.502†	-86.9	19.0	0.2950	µg/L	0.2950	ppb	15:29:56
1	Co 228.616†	-85.4	9.5	0.2784	µg/L	0.2784	ppb	15:29:56
1	Cr 267.716†	120.9	6.2	0.1152	µg/L	0.1152	ppb	15:29:56
1	Cu 324.752†	3849.8	145.8	0.9784	µg/L	0.9784	ppb	15:29:36
1	Mn 257.610†	204.4	7.5	0.0235	µg/L	0.0235	ppb	15:29:56
1	Mo 202.031†	-14.9	-6.6	-0.7484	µg/L	-0.7484	ppb	15:29:56
1	Ni 231.604†	-41.2	-0.0	-0.0007	µg/L	-0.0007	ppb	15:29:56
1	P 214.914†	-75.5	-18.6	-19.735	µg/L	-19.735	ppb	15:29:56
1	Pb 220.353†	103.5	5.3	1.1347	µg/L	1.1347	ppb	15:29:56
1	S 181.975 Axial†	27.8	6.0	19.746	µg/L	19.746	ppb	15:29:56
1	Sb 206.836†	-0.0	-5.3	-3.3864	µg/L	-3.3864	ppb	15:29:56
1	Se 196.026†	6.1	-4.7	-6.46	µg/L	-6.46	ppb	15:29:56
1	SiO2†	1785.8	37.7	6.9473	µg/L	6.9473	ppb	15:29:56
1	Si 251.611†	424.8	29.1	0.8681	µg/L	0.8681	ppb	15:29:56
1	Sn 189.927†	-4.0	-2.3	-0.9479	µg/L	-0.9479	ppb	15:29:56
1	Ti 334.940†	1298.6	-232.9	-0.4323	µg/L	-0.4323	ppb	15:29:36
1	Tl 190.801†	-13.0	2.8	3.3584	µg/L	3.3584	ppb	15:29:56
1	U 367.007†	294.6	-8.3	-2.3511	µg/L	-2.3511	ppb	15:29:36
1	V 292.402†	332.8	-15.8	-0.1192	µg/L	-0.1192	ppb	15:29:36
1	Zn 213.857†	552.2	31.9	0.4049	µg/L	0.4049	ppb	15:29:56
2	Sc RADIAL	21185.0	21185.0	96.2	%			15:28:16
2	Al 396.153Radial†	-77.9	10.2	16.328	µg/L	16.328	ppb	15:28:16
2	Ca 317.933Radial†	80.4	1.3	0.9034	µg/L	0.9034	ppb	15:28:37
2	Fe 238.204 Radial†	29.6	2.6	9.0032	µg/L	9.0032	ppb	15:28:37
2	K 766.490 Radial†	620.3	-7.5	-9.2196	µg/L	-9.2196	ppb	15:28:16
2	Mg 279.077 IEC†	3.7	-0.4	-2.9036	µg/L	-2.9036	ppb	15:28:37
2	Na 589.592 Radial†	-67.9	-37.7	-29.501	µg/L	-29.501	ppb	15:28:16
2	Sr 421.552†	53.7	22.2	0.2535	µg/L	0.2535	ppb	15:28:16
2	Sc 361.383	1238321.6	1238321.6	98.290	%			15:29:58
2	Y 371.029	732192.1	732192.1	98.263	%			15:29:58
2	Ag 328.068†	599.2	-60.1	-0.4071	µg/L	-0.4071	ppb	15:30:00
2	As 188.979†	-7.7	-5.2	-10.331	µg/L	-10.331	ppb	15:30:20
2	B 249.677†	308.3	54.2	0.6262	µg/L	0.6262	ppb	15:30:20
2	Ba 233.527†	-74.7	6.6	0.0909	µg/L	0.0909	ppb	15:30:20
2	Be 313.107†	-6922.1	-173.4	-0.0752	µg/L	-0.0752	ppb	15:30:00
2	Cd 226.502†	-101.8	5.9	0.0905	µg/L	0.0905	ppb	15:30:20
2	Co 228.616†	-91.5	5.3	0.1563	µg/L	0.1563	ppb	15:30:20
2	Cr 267.716†	131.5	14.0	0.2552	µg/L	0.2552	ppb	15:30:20
2	Cu 324.752†	3941.9	148.7	0.9994	µg/L	0.9994	ppb	15:30:00
2	Mn 257.610†	205.3	3.6	0.0108	µg/L	0.0108	ppb	15:30:20
2	Mo 202.031†	-8.9	-0.2	-0.0190	µg/L	-0.0190	ppb	15:30:20
2	Ni 231.604†	-53.4	-11.5	-0.3445	µg/L	-0.3445	ppb	15:30:20
2	P 214.914†	-55.4	3.6	3.8485	µg/L	3.8485	ppb	15:30:20
2	Pb 220.353†	90.6	-10.3	-2.2152	µg/L	-2.2152	ppb	15:30:20

2	S 181.975 Axial†	29.1	6.6	21.708	µg/L	21.708	ppb	15:30:20
2	Sb 206.836†	4.1	-1.2	-0.7580	µg/L	-0.7580	ppb	15:30:20
2	Se 196.026†	17.4	6.6	8.98	µg/L	8.98	ppb	15:30:20
2	SiO2†	1784.0	-6.2	-1.1371	µg/L	-1.1371	ppb	15:30:20
2	Si 251.611†	393.7	-12.6	-0.3701	µg/L	-0.3701	ppb	15:30:20
2	Sn 189.927†	2.2	4.1	1.6718	µg/L	1.6718	ppb	15:30:20
2	Ti 334.940†	1279.5	-282.9	-0.5292	µg/L	-0.5292	ppb	15:30:00
2	Tl 190.801†	-17.6	-1.6	-1.9462	µg/L	-1.9462	ppb	15:30:20
2	U 367.007†	323.9	14.5	3.9256	µg/L	3.9256	ppb	15:30:00
2	V 292.402†	276.4	-81.1	-0.5675	µg/L	-0.5675	ppb	15:30:00
2	Zn 213.857†	553.0	19.7	0.2512	µg/L	0.2512	ppb	15:30:20
3	Sc RADIAL	21253.0	21253.0	96.5	%			15:28:57
3	Al 396.153Radial†	-85.1	3.0	4.7941	µg/L	4.7941	ppb	15:28:57
3	Ca 317.933Radial†	87.4	8.3	5.6825	µg/L	5.6825	ppb	15:29:17
3	Fe 238.204 Radial†	29.1	2.0	6.7945	µg/L	6.7945	ppb	15:29:17
3	K 766.490 Radial†	612.3	-17.9	-22.128	µg/L	-22.128	ppb	15:28:57
3	Mg 279.077 IEC†	1.5	-2.8	-19.606	µg/L	-19.606	ppb	15:29:17
3	Na 589.592 Radial†	-31.0	0.8	0.5875	µg/L	0.5875	ppb	15:28:57
3	Sr 421.552†	54.1	22.5	0.2562	µg/L	0.2562	ppb	15:28:57
3	Sc 361.383	1223825.7	1223825.7	97.139	%			15:30:22
3	Y 371.029	724113.9	724113.9	97.179	%			15:30:22
3	Ag 328.068†	513.6	-141.0	-0.9317	µg/L	-0.9317	ppb	15:30:24
3	As 188.979†	-7.7	-5.4	-10.615	µg/L	-10.615	ppb	15:30:44
3	B 249.677†	307.9	57.5	0.6806	µg/L	0.6806	ppb	15:30:44
3	Ba 233.527†	-73.1	7.3	0.1008	µg/L	0.1008	ppb	15:30:44
3	Be 313.107†	-7102.1	-442.1	-0.1916	µg/L	-0.1916	ppb	15:30:24
3	Cd 226.502†	-89.9	16.9	0.2632	µg/L	0.2632	ppb	15:30:44
3	Co 228.616†	-79.1	16.9	0.4993	µg/L	0.4993	ppb	15:30:44
3	Cr 267.716†	116.8	0.5	0.0193	µg/L	0.0193	ppb	15:30:44
3	Cu 324.752†	3744.2	-7.3	-0.0546	µg/L	-0.0546	ppb	15:30:24
3	Mn 257.610†	222.5	23.8	0.0702	µg/L	0.0702	ppb	15:30:44
3	Mo 202.031†	-6.7	1.9	0.2153	µg/L	0.2153	ppb	15:30:44
3	Ni 231.604†	-48.3	-6.9	-0.2070	µg/L	-0.2070	ppb	15:30:44
3	P 214.914†	-62.2	-4.0	-4.2049	µg/L	-4.2049	ppb	15:30:44
3	Pb 220.353†	107.5	8.2	1.7684	µg/L	1.7684	ppb	15:30:44
3	S 181.975 Axial†	25.4	3.2	10.498	µg/L	10.498	ppb	15:30:44
3	Sb 206.836†	0.1	-5.2	-3.2723	µg/L	-3.2723	ppb	15:30:44
3	Se 196.026†	15.8	5.2	7.04	µg/L	7.04	ppb	15:30:44
3	SiO2†	1779.6	10.8	1.9867	µg/L	1.9867	ppb	15:30:44
3	Si 251.611†	418.1	17.3	0.5075	µg/L	0.5075	ppb	15:30:44
3	Sn 189.927†	-0.0	1.8	0.7452	µg/L	0.7452	ppb	15:30:44
3	Ti 334.940†	1414.4	-128.7	-0.2323	µg/L	-0.2323	ppb	15:30:24
3	Tl 190.801†	-14.1	1.7	2.0584	µg/L	2.0584	ppb	15:30:44
3	U 367.007†	256.7	-50.8	-13.964	µg/L	-13.964	ppb	15:30:24
3	V 292.402†	275.2	-79.0	-0.5610	µg/L	-0.5610	ppb	15:30:24
3	Zn 213.857†	537.6	10.5	0.1351	µg/L	0.1351	ppb	15:30:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1224129.3	97.163	%	1.1146				1.15%
Sc RADIAL	20942.9	95.1	%	2.18				2.29%
Y 371.029	723932.0	97.154	%	1.1209				1.15%
Ag 328.068†	-131.9	-0.8794	µg/L	0.44849	-0.8794	ppb	0.44849	51.00%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	6.2	9.9587	µg/L	5.86064	9.9587	ppb	5.86064	58.85%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-4.3	-8.4530	µg/L	3.50102	-8.4530	ppb	3.50102	41.42%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	70.4	0.8181	µg/L	0.28665	0.8181	ppb	0.28665	35.04%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	2.1	0.0283	µg/L	0.11711	0.0283	ppb	0.11711	413.79%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-371.9	-0.1612	µg/L	0.07555	-0.1612	ppb	0.07555	46.87%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.1	4.1269	µg/L	2.79219	4.1269	ppb	2.79219	67.66%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	13.9	0.2162	µg/L	0.11004	0.2162	ppb	0.11004	50.89%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	10.6	0.3114	µg/L	0.17387	0.3114	ppb	0.17387	55.84%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 6.9      0.1299 µg/L       0.11865      0.1299 ppb        0.11865  91.35%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                95.7      0.6411 µg/L       0.60257      0.6411 ppb        0.60257  93.99%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          2.9      9.8643 µg/L       3.57897      9.8643 ppb        3.57897  36.28%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          -6.9     -8.5690 µg/L      13.89544     -8.5690 ppb       13.89544 162.16%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -2.7     -19.298 µg/L       16.2422     -19.298 ppb        16.2422  84.17%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                11.6      0.0348 µg/L       0.03128      0.0348 ppb        0.03128  89.87%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -1.6     -0.1840 µg/L       0.50258     -0.1840 ppb        0.50258 273.13%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -15.4     -12.068 µg/L       15.6029     -12.068 ppb        15.6029 129.29%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -6.2     -0.1841 µg/L       0.17303     -0.1841 ppb        0.17303  94.01%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -6.3     -6.6972 µg/L      11.98778     -6.6972 ppb       11.98778 179.00%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 1.1      0.2293 µg/L       2.14061      0.2293 ppb        2.14061 933.56%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            5.3      17.317 µg/L        5.9865      17.317 ppb         5.9865  34.57%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -3.9     -2.4722 µg/L       1.48568     -2.4722 ppb        1.48568  60.09%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 2.3        3.19 µg/L         8.406        3.19 ppb          8.406 263.77%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      14.1      2.5989 µg/L       4.07680      2.5989 ppb        4.07680 156.86%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                11.3      0.3352 µg/L       0.63683      0.3352 ppb        0.63683 189.99%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 1.2      0.4897 µg/L       1.32842      0.4897 ppb        1.32842 271.26%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                22.4      0.2551 µg/L       0.00136      0.2551 ppb        0.00136   0.53%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -214.9     -0.3980 µg/L       0.15142     -0.3980 ppb        0.15142  38.05%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.0      1.1569 µg/L       2.76484      1.1569 ppb        2.76484 239.00%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -14.9     -4.1298 µg/L       9.07655     -4.1298 ppb        9.07655 219.78%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -58.6     -0.4159 µg/L       0.25699     -0.4159 ppb        0.25699  61.79%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                20.7      0.2637 µg/L       0.13534      0.2637 ppb        0.13534  51.32%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 6 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 15:47:16**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21921.4	21921.4	99.5	%			15:47:49
1	Al 396.153Radial†	3182.1	3287.8	5269.8	µg/L	5269.8	ppb	15:48:09
1	Ca 317.933Radial†	7365.1	7316.6	4980.6	µg/L	4980.6	ppb	15:48:09
1	Fe 238.204 Radial†	1510.2	1489.0	5065.9	µg/L	5065.9	ppb	15:48:09
1	K 766.490 Radial†	4606.6	3975.4	4929.0	µg/L	4929.0	ppb	15:47:49
1	Mg 279.077 IEC†	742.1	741.2	5248.0	µg/L	5248.0	ppb	15:48:09
1	Na 589.592 Radial†	13857.2	13953.7	10912	µg/L	10912	ppb	15:47:49
1	Sr 421.552†	42483.8	42645.2	486.68	µg/L	486.68	ppb	15:47:49
1	Sc 361.383	1275613.8	1275613.8	101.25	%			15:49:11
1	Y 371.029	738684.3	738684.3	99.134	%			15:49:11
1	Ag 328.068†	73188.3	71615.1	479.89	µg/L	479.89	ppb	15:49:13
1	As 188.979†	231.8	231.5	463.20	µg/L	463.20	ppb	15:49:33
1	B 249.677†	39335.9	38590.8	447.20	µg/L	447.20	ppb	15:49:13
1	Ba 233.527†	33927.7	33591.4	473.45	µg/L	473.45	ppb	15:49:13
1	Be 313.107†	1101698.4	1094967.7	474.59	µg/L	474.59	ppb	15:49:11
1	Cd 226.502†	30676.0	30406.8	474.35	µg/L	474.35	ppb	15:49:13
1	Co 228.616†	16255.9	16153.6	475.18	µg/L	475.18	ppb	15:49:13
1	Cr 267.716†	26305.7	25861.3	473.47	µg/L	473.47	ppb	15:49:13
1	Cu 324.752†	75428.1	70635.2	474.43	µg/L	474.43	ppb	15:49:13
1	Mn 257.610†	165500.0	163251.7	475.76	µg/L	475.76	ppb	15:49:13
1	Mo 202.031†	4220.1	4176.8	472.08	µg/L	472.08	ppb	15:49:33
1	Ni 231.604†	16226.0	16068.5	479.28	µg/L	479.28	ppb	15:49:13
1	P 214.914†	2211.3	2244.0	2365.8	µg/L	2365.8	ppb	15:49:33
1	Pb 220.353†	2341.3	2209.9	475.00	µg/L	475.00	ppb	15:49:33
1	S 181.975 Axial†	311.3	284.6	927.08	µg/L	927.08	ppb	15:49:33
1	Sb 206.836†	763.4	748.6	473.22	µg/L	473.22	ppb	15:49:33
1	Se 196.026†	359.7	344.2	470	µg/L	470	ppb	15:49:33
1	SiO2†	29721.4	27533.3	5076.7	µg/L	5076.7	ppb	15:49:13
1	Si 251.611†	82144.4	80717.3	2370.1	µg/L	2370.1	ppb	15:49:13
1	Sn 189.927†	1193.0	1180.1	480.51	µg/L	480.51	ppb	15:49:33
1	Ti 334.940†	259309.1	254523.3	474.03	µg/L	474.03	ppb	15:49:13
1	Tl 190.801†	385.0	396.5	475.97	µg/L	475.97	ppb	15:49:33
1	U 367.007†	1999.5	1659.8	426.19	µg/L	426.19	ppb	15:49:13
1	V 292.402†	68085.4	66882.6	479.08	µg/L	479.08	ppb	15:49:13
1	Zn 213.857†	37991.9	36980.0	468.17	µg/L	468.17	ppb	15:49:13
2	Sc RADIAL	21512.1	21512.1	97.7	%			15:48:11
2	Al 396.153Radial†	3132.0	3297.4	5284.9	µg/L	5284.9	ppb	15:48:31
2	Ca 317.933Radial†	7249.1	7338.7	4995.6	µg/L	4995.6	ppb	15:48:31
2	Fe 238.204 Radial†	1492.0	1499.2	5100.0	µg/L	5100.0	ppb	15:48:31
2	K 766.490 Radial†	4626.2	4083.6	5063.5	µg/L	5063.5	ppb	15:48:11
2	Mg 279.077 IEC†	727.3	740.2	5241.2	µg/L	5241.2	ppb	15:48:31
2	Na 589.592 Radial†	13643.3	13999.7	10948	µg/L	10948	ppb	15:48:11
2	Sr 421.552†	42502.8	43476.9	496.17	µg/L	496.17	ppb	15:48:11
2	Sc 361.383	1225500.8	1225500.8	97.272	%			15:49:35
2	Y 371.029	709771.4	709771.4	95.254	%			15:49:35
2	Ag 328.068†	74331.1	75745.9	507.57	µg/L	507.57	ppb	15:49:37
2	As 188.979†	234.6	243.7	487.62	µg/L	487.62	ppb	15:49:57
2	B 249.677†	40380.0	41252.9	479.31	µg/L	479.31	ppb	15:49:37
2	Ba 233.527†	34585.8	35638.2	502.30	µg/L	502.30	ppb	15:49:37
2	Be 313.107†	1084054.7	1121323.6	486.01	µg/L	486.01	ppb	15:49:35
2	Cd 226.502†	30947.4	31924.7	498.06	µg/L	498.06	ppb	15:49:37
2	Co 228.616†	16524.4	17086.2	502.61	µg/L	502.61	ppb	15:49:37
2	Cr 267.716†	26599.3	27225.5	498.43	µg/L	498.43	ppb	15:49:37
2	Cu 324.752†	76520.9	74804.9	502.41	µg/L	502.41	ppb	15:49:37
2	Mn 257.610†	168367.0	172883.2	503.83	µg/L	503.83	ppb	15:49:37
2	Mo 202.031†	4268.3	4396.8	496.93	µg/L	496.93	ppb	15:49:57
2	Ni 231.604†	16322.5	16823.0	501.79	µg/L	501.79	ppb	15:49:37
2	P 214.914†	2231.2	2353.8	2481.7	µg/L	2481.7	ppb	15:49:57
2	Pb 220.353†	2355.9	2319.5	498.55	µg/L	498.55	ppb	15:49:57

2	S 181.975 Axial†	318.3	304.3	991.62 µg/L	991.62 ppb		15:49:57
2	Sb 206.836†	763.6	779.7	492.87 µg/L	492.87 ppb		15:49:57
2	Se 196.026†	370.4	369.7	505 µg/L	505 ppb		15:49:57
2	SiO2†	29991.3	29011.1	5349.2 µg/L	5349.2 ppb		15:49:37
2	Si 251.611†	83280.2	85202.5	2501.8 µg/L	2501.8 ppb		15:49:37
2	Sn 189.927†	1197.8	1233.2	502.13 µg/L	502.13 ppb		15:49:57
2	Ti 334.940†	263543.2	269348.9	501.62 µg/L	501.62 ppb		15:49:37
2	Tl 190.801†	373.1	399.9	479.79 µg/L	479.79 ppb		15:49:57
2	U 367.007†	2052.4	1794.9	462.93 µg/L	462.93 ppb		15:49:37
2	V 292.402†	69360.8	70943.6	508.07 µg/L	508.07 ppb		15:49:37
2	Zn 213.857†	38561.2	39099.6	495.07 µg/L	495.07 ppb		15:49:37
3	Sc RADIAL	21687.4	21687.4	98.5 %			15:48:33
3	Al 396.153Radial†	3154.6	3294.4	5280.2 µg/L	5280.2 ppb		15:48:53
3	Ca 317.933Radial†	7322.1	7352.8	5005.2 µg/L	5005.2 ppb		15:48:53
3	Fe 238.204 Radial†	1514.3	1509.6	5135.5 µg/L	5135.5 ppb		15:48:53
3	K 766.490 Radial†	4744.6	4165.5	5164.8 µg/L	5164.8 ppb		15:48:33
3	Mg 279.077 IEC†	736.4	743.4	5264.1 µg/L	5264.1 ppb		15:48:53
3	Na 589.592 Radial†	13791.9	14037.7	10977 µg/L	10977 ppb		15:48:33
3	Sr 421.552†	42936.8	43565.7	497.18 µg/L	497.18 ppb		15:48:33
3	Sc 361.383	1241513.3	1241513.3	98.543 %			15:49:59
3	Y 371.029	718969.8	718969.8	96.488 %			15:49:59
3	Ag 328.068†	74071.0	74496.3	499.18 µg/L	499.18 ppb		15:50:01
3	As 188.979†	234.2	240.2	480.56 µg/L	480.56 ppb		15:50:22
3	B 249.677†	40219.9	40555.0	470.67 µg/L	470.67 ppb		15:50:01
3	Ba 233.527†	34493.3	35085.8	494.51 µg/L	494.51 ppb		15:50:01
3	Be 313.107†	1100564.2	1123703.4	487.04 µg/L	487.04 ppb		15:49:59
3	Cd 226.502†	30959.2	31526.4	491.83 µg/L	491.83 ppb		15:50:01
3	Co 228.616†	16521.4	16864.0	496.08 µg/L	496.08 ppb		15:50:01
3	Cr 267.716†	26612.4	26886.1	492.22 µg/L	492.22 ppb		15:50:01
3	Cu 324.752†	76408.6	73676.4	494.85 µg/L	494.85 ppb		15:50:01
3	Mn 257.610†	167609.5	169882.1	495.09 µg/L	495.09 ppb		15:50:01
3	Mo 202.031†	4243.8	4315.4	487.74 µg/L	487.74 ppb		15:50:22
3	Ni 231.604†	16379.2	16664.2	497.05 µg/L	497.05 ppb		15:50:01
3	P 214.914†	2237.3	2330.4	2457.0 µg/L	2457.0 ppb		15:50:22
3	Pb 220.353†	2355.6	2287.9	491.75 µg/L	491.75 ppb		15:50:22
3	S 181.975 Axial†	315.3	297.0	967.81 µg/L	967.81 ppb		15:50:22
3	Sb 206.836†	771.2	777.3	491.29 µg/L	491.29 ppb		15:50:22
3	Se 196.026†	366.5	360.8	493 µg/L	493 ppb		15:50:22
3	SiO2†	29977.6	28599.5	5273.3 µg/L	5273.3 ppb		15:50:01
3	Si 251.611†	83317.0	84135.5	2470.6 µg/L	2470.6 ppb		15:50:01
3	Sn 189.927†	1192.5	1212.0	493.50 µg/L	493.50 ppb		15:50:22
3	Ti 334.940†	262609.5	264907.0	493.35 µg/L	493.35 ppb		15:50:01
3	Tl 190.801†	388.6	410.6	492.88 µg/L	492.88 ppb		15:50:22
3	U 367.007†	2069.4	1784.9	460.05 µg/L	460.05 ppb		15:50:01
3	V 292.402†	68855.7	69511.3	497.86 µg/L	497.86 ppb		15:50:01
3	Zn 213.857†	38371.8	38396.1	486.12 µg/L	486.12 ppb		15:50:01

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1247542.7	99.022	%	2.0315				2.05%
Sc RADIAL	21707.0	98.6	%	0.93				0.95%
Y 371.029	722475.2	96.959	%	1.9824				2.04%
Ag 328.068†	73952.4	495.55	µg/L	14.195	495.55	ppb	14.195	2.86%
QC value within limits for Ag 328.068 Recovery = 99.11%								
Al 396.153Radial†	3293.2	5278.3	µg/L	7.71	5278.3	ppb	7.71	0.15%
QC value within limits for Al 396.153Radial Recovery = 105.57%								
As 188.979†	238.5	477.13	µg/L	12.568	477.13	ppb	12.568	2.63%
QC value within limits for As 188.979 Recovery = 95.43%								
B 249.677†	40132.9	465.73	µg/L	16.612	465.73	ppb	16.612	3.57%
QC value within limits for B 249.677 Recovery = 93.15%								
Ba 233.527†	34771.8	490.09	µg/L	14.925	490.09	ppb	14.925	3.05%
QC value within limits for Ba 233.527 Recovery = 98.02%								
Be 313.107†	1113331.6	482.54	µg/L	6.912	482.54	ppb	6.912	1.43%
QC value within limits for Be 313.107 Recovery = 96.51%								
Ca 317.933Radial†	7336.0	4993.8	µg/L	12.41	4993.8	ppb	12.41	0.25%
QC value within limits for Ca 317.933Radial Recovery = 99.88%								
Cd 226.502†	31286.0	488.08	µg/L	12.291	488.08	ppb	12.291	2.52%
QC value within limits for Cd 226.502 Recovery = 97.62%								
Co 228.616†	16701.3	491.29	µg/L	14.329	491.29	ppb	14.329	2.92%

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   QC value within limits for Co 228.616  Recovery = 98.26%
Cr 267.716†            26657.6      488.04 µg/L        12.994      488.04 ppb         12.994   2.66%
   QC value within limits for Cr 267.716  Recovery = 97.61%
Cu 324.752†            73038.8      490.56 µg/L        14.471      490.56 ppb         14.471   2.95%
   QC value within limits for Cu 324.752  Recovery = 98.11%
Fe 238.204 Radial†      1499.3      5100.5 µg/L         34.83      5100.5 ppb          34.83   0.68%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.01%
K 766.490 Radial†       4074.8      5052.4 µg/L        118.31      5052.4 ppb         118.31   2.34%
   QC value within limits for K 766.490 Radial  Recovery = 101.05%
Mg 279.077 IEC†          741.6      5251.1 µg/L         11.76      5251.1 ppb          11.76   0.22%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.02%
Mn 257.610†           168672.3      491.56 µg/L        14.366      491.56 ppb         14.366   2.92%
   QC value within limits for Mn 257.610  Recovery = 98.31%
Mo 202.031†             4296.3      485.58 µg/L        12.565      485.58 ppb         12.565   2.59%
   QC value within limits for Mo 202.031  Recovery = 97.12%
Na 589.592 Radial†     13997.0       10945 µg/L          32.9       10945 ppb           32.9   0.30%
   QC value within limits for Na 589.592 Radial  Recovery = 109.45%
Ni 231.604†            16518.6      492.71 µg/L        11.865      492.71 ppb         11.865   2.41%
   QC value within limits for Ni 231.604  Recovery = 98.54%
P 214.914†              2309.4      2434.8 µg/L         61.04      2434.8 ppb          61.04   2.51%
   QC value within limits for P 214.914  Recovery = 97.39%
Pb 220.353†             2272.5      488.43 µg/L        12.120      488.43 ppb         12.120   2.48%
   QC value within limits for Pb 220.353  Recovery = 97.69%
S 181.975 Axial†         295.3      962.17 µg/L        32.635      962.17 ppb         32.635   3.39%
   QC value within limits for S 181.975 Axial  Recovery = 96.22%
Sb 206.836†              768.6      485.80 µg/L        10.917      485.80 ppb         10.917   2.25%
   QC value within limits for Sb 206.836  Recovery = 97.16%
Se 196.026†              358.2         489 µg/L          17.6         489 ppb           17.6   3.60%
   QC value within limits for Se 196.026  Recovery = 97.85%
SiO2†                  28381.3      5233.0 µg/L        140.63      5233.0 ppb         140.63   2.69%
   QC value within limits for SiO2  Recovery = 97.86%
Si 251.611†            83351.8      2447.5 µg/L         68.80      2447.5 ppb          68.80   2.81%
   QC value within limits for Si 251.611  Recovery = 97.90%
Sn 189.927†             1208.4      492.05 µg/L        10.881      492.05 ppb         10.881   2.21%
   QC value within limits for Sn 189.927  Recovery = 98.41%
Sr 421.552†            43229.3      493.34 µg/L         5.795      493.34 ppb          5.795   1.17%
   QC value within limits for Sr 421.552  Recovery = 98.67%
Ti 334.940†           262926.4      489.67 µg/L        14.161      489.67 ppb         14.161   2.89%
   QC value within limits for Ti 334.940  Recovery = 97.93%
Tl 190.801†              402.3      482.88 µg/L         8.870      482.88 ppb          8.870   1.84%
   QC value within limits for Tl 190.801  Recovery = 96.58%
U 367.007†              1746.6      449.73 µg/L        20.430      449.73 ppb         20.430   4.54%
   QC value less than the lower limit for U 367.007  Recovery = 89.95%
V 292.402†             69112.5      495.00 µg/L        14.709      495.00 ppb         14.709   2.97%
   QC value within limits for V 292.402  Recovery = 99.00%
Zn 213.857†            38158.6      483.12 µg/L        13.697      483.12 ppb         13.697   2.84%
   QC value within limits for Zn 213.857  Recovery = 96.62%
QC Failed.  Continue with analysis.
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Sequence No.: 7 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/6/2013 15:50:30**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21452.9	21452.9	97.4	%			15:51:19
1	Al 396.153Radial†	32.2	124.2	199.19	µg/L	199.19	ppb	15:51:19
1	Ca 317.933Radial†	370.6	298.1	202.91	µg/L	202.91	ppb	15:51:39
1	Fe 238.204 Radial†	57.6	31.0	105.65	µg/L	105.65	ppb	15:51:39
1	K 766.490 Radial†	769.6	137.7	170.63	µg/L	170.63	ppb	15:51:19
1	Mg 279.077 IEC†	50.5	47.5	336.46	µg/L	336.46	ppb	15:51:39
1	Na 589.592 Radial†	348.5	390.6	305.45	µg/L	305.45	ppb	15:51:19
1	Sr 421.552†	477.5	456.5	5.2087	µg/L	5.2087	ppb	15:51:19
1	Sc 361.383	1241043.5	1241043.5	98.506	%			15:53:17
1	Y 371.029	732072.6	732072.6	98.247	%			15:53:17
1	Ag 328.068†	1405.8	757.4	5.0422	µg/L	5.0422	ppb	15:53:19
1	As 188.979†	17.3	20.1	39.678	µg/L	39.678	ppb	15:53:39
1	B 249.677†	4154.4	3958.0	47.406	µg/L	47.406	ppb	15:53:19
1	Ba 233.527†	255.2	341.6	4.8161	µg/L	4.8161	ppb	15:53:39
1	Be 313.107†	4191.6	11124.3	4.8215	µg/L	4.8215	ppb	15:53:19
1	Cd 226.502†	212.7	325.4	5.0691	µg/L	5.0691	ppb	15:53:39
1	Co 228.616†	84.5	184.2	5.4252	µg/L	5.4252	ppb	15:53:39
1	Cr 267.716†	392.6	278.8	5.0771	µg/L	5.0771	ppb	15:53:39
1	Cu 324.752†	5327.9	1546.8	10.402	µg/L	10.402	ppb	15:53:19
1	Mn 257.610†	3590.2	3439.4	10.015	µg/L	10.015	ppb	15:53:39
1	Mo 202.031†	76.9	86.9	9.8299	µg/L	9.8299	ppb	15:53:39
1	Ni 231.604†	115.8	160.4	4.7842	µg/L	4.7842	ppb	15:53:39
1	P 214.914†	80.6	141.9	150.18	µg/L	150.18	ppb	15:53:39
1	Pb 220.353†	124.4	23.8	5.1035	µg/L	5.1035	ppb	15:53:39
1	S 181.975 Axial†	54.6	32.5	106.11	µg/L	106.11	ppb	15:53:39
1	Sb 206.836†	16.0	10.9	6.9119	µg/L	6.9119	ppb	15:53:39
1	Se 196.026†	40.5	30.1	41.0	µg/L	41.0	ppb	15:53:39
1	SiO2†	2892.8	1115.4	205.39	µg/L	205.39	ppb	15:53:19
1	Si 251.611†	3717.1	3360.4	98.792	µg/L	98.792	ppb	15:53:19
1	Sn 189.927†	26.3	28.6	11.643	µg/L	11.643	ppb	15:53:39
1	Ti 334.940†	3849.2	2322.8	4.3128	µg/L	4.3128	ppb	15:53:19
1	Tl 190.801†	5.7	22.0	26.665	µg/L	26.665	ppb	15:53:39
1	U 367.007†	463.8	155.8	42.112	µg/L	42.112	ppb	15:53:19
1	V 292.402†	1130.6	785.4	5.7067	µg/L	5.7067	ppb	15:53:19
1	Zn 213.857†	1315.2	792.2	10.054	µg/L	10.054	ppb	15:53:39
2	Sc RADIAL	19975.4	19975.4	90.7	%			15:51:59
2	Al 396.153Radial†	34.1	128.7	206.44	µg/L	206.44	ppb	15:51:59
2	Ca 317.933Radial†	361.2	316.0	215.05	µg/L	215.05	ppb	15:52:19
2	Fe 238.204 Radial†	58.7	36.5	124.52	µg/L	124.52	ppb	15:52:19
2	K 766.490 Radial†	746.9	171.1	211.92	µg/L	211.92	ppb	15:51:59
2	Mg 279.077 IEC†	47.4	48.0	339.98	µg/L	339.98	ppb	15:52:19
2	Na 589.592 Radial†	385.2	457.5	357.78	µg/L	357.78	ppb	15:51:59
2	Sr 421.552†	508.3	526.8	6.0105	µg/L	6.0105	ppb	15:51:59
2	Sc 361.383	1214644.7	1214644.7	96.411	%			15:53:41
2	Y 371.029	716728.7	716728.7	96.188	%			15:53:41
2	Ag 328.068†	1454.1	838.5	5.5854	µg/L	5.5854	ppb	15:53:43
2	As 188.979†	10.0	12.9	25.596	µg/L	25.596	ppb	15:54:03
2	B 249.677†	4019.3	3909.5	46.731	µg/L	46.731	ppb	15:53:43
2	Ba 233.527†	262.4	354.8	4.9984	µg/L	4.9984	ppb	15:54:03
2	Be 313.107†	4350.5	11381.6	4.9330	µg/L	4.9330	ppb	15:53:43
2	Cd 226.502†	204.2	321.3	5.0031	µg/L	5.0031	ppb	15:54:03
2	Co 228.616†	71.6	172.6	5.0842	µg/L	5.0842	ppb	15:54:03
2	Cr 267.716†	374.2	268.4	4.8908	µg/L	4.8908	ppb	15:54:03
2	Cu 324.752†	5329.7	1666.3	11.202	µg/L	11.202	ppb	15:53:43
2	Mn 257.610†	3514.2	3439.8	10.016	µg/L	10.016	ppb	15:54:03
2	Mo 202.031†	78.8	90.6	10.243	µg/L	10.243	ppb	15:54:03
2	Ni 231.604†	106.5	153.3	4.5720	µg/L	4.5720	ppb	15:54:03
2	P 214.914†	60.1	122.3	129.44	µg/L	129.44	ppb	15:54:03
2	Pb 220.353†	146.0	49.0	10.506	µg/L	10.506	ppb	15:54:03

2	S 181.975 Axial†	57.7	37.0	120.80 µg/L	120.80 ppb	15:54:03
2	Sb 206.836†	15.3	10.6	6.7265 µg/L	6.7265 ppb	15:54:03
2	Se 196.026†	34.5	24.7	33.7 µg/L	33.7 ppb	15:54:03
2	SiO2†	3017.8	1308.9	240.99 µg/L	240.99 ppb	15:53:43
2	Si 251.611†	3572.9	3292.8	96.798 µg/L	96.798 ppb	15:53:43
2	Sn 189.927†	25.8	28.6	11.652 µg/L	11.652 ppb	15:54:03
2	Ti 334.940†	3955.4	2517.9	4.6791 µg/L	4.6791 ppb	15:53:43
2	Tl 190.801†	-2.1	14.1	17.032 µg/L	17.032 ppb	15:54:03
2	U 367.007†	438.9	140.2	37.738 µg/L	37.738 ppb	15:53:43
2	V 292.402†	985.2	659.6	4.8242 µg/L	4.8242 ppb	15:53:43
2	Zn 213.857†	1272.2	776.6	9.8537 µg/L	9.8537 ppb	15:54:03
3	Sc RADIAL	21315.7	21315.7	96.8 %		15:52:39
3	Al 396.153Radial†	29.9	122.1	195.73 µg/L	195.73 ppb	15:52:39
3	Ca 317.933Radial†	370.4	300.4	204.48 µg/L	204.48 ppb	15:52:59
3	Fe 238.204 Radial†	59.6	33.4	113.96 µg/L	113.96 ppb	15:52:59
3	K 766.490 Radial†	715.3	86.7	107.35 µg/L	107.35 ppb	15:52:39
3	Mg 279.077 IEC†	50.0	47.3	335.23 µg/L	335.23 ppb	15:52:59
3	Na 589.592 Radial†	362.1	407.0	318.25 µg/L	318.25 ppb	15:52:39
3	Sr 421.552†	473.8	455.9	5.2015 µg/L	5.2015 ppb	15:52:39
3	Sc 361.383	1125578.4	1125578.4	89.341 %		15:54:05
3	Y 371.029	664218.8	664218.8	89.141 %		15:54:05
3	Ag 328.068†	1331.5	820.7	5.4478 µg/L	5.4478 ppb	15:54:07
3	As 188.979†	5.4	8.6	17.062 µg/L	17.062 ppb	15:54:27
3	B 249.677†	3669.1	3847.4	46.064 µg/L	46.064 ppb	15:54:07
3	Ba 233.527†	230.1	340.1	4.7919 µg/L	4.7919 ppb	15:54:27
3	Be 313.107†	3539.0	10830.4	4.6941 µg/L	4.6941 ppb	15:54:07
3	Cd 226.502†	210.8	345.4	5.3805 µg/L	5.3805 ppb	15:54:27
3	Co 228.616†	79.8	187.7	5.5276 µg/L	5.5276 ppb	15:54:27
3	Cr 267.716†	346.4	268.0	4.8698 µg/L	4.8698 ppb	15:54:27
3	Cu 324.752†	4976.0	1707.9	11.489 µg/L	11.489 ppb	15:54:07
3	Mn 257.610†	3422.6	3625.7	10.558 µg/L	10.558 ppb	15:54:27
3	Mo 202.031†	67.1	83.9	9.4938 µg/L	9.4938 ppb	15:54:27
3	Ni 231.604†	99.5	154.2	4.5979 µg/L	4.5979 ppb	15:54:27
3	P 214.914†	73.2	142.0	150.29 µg/L	150.29 ppb	15:54:27
3	Pb 220.353†	145.9	60.9	13.032 µg/L	13.032 ppb	15:54:27
3	S 181.975 Axial†	55.3	38.9	127.22 µg/L	127.22 ppb	15:54:27
3	Sb 206.836†	14.2	10.6	6.7347 µg/L	6.7347 ppb	15:54:27
3	Se 196.026†	34.9	28.0	38.1 µg/L	38.1 ppb	15:54:27
3	SiO2†	2727.8	1232.0	226.84 µg/L	226.84 ppb	15:54:07
3	Si 251.611†	3311.3	3293.2	96.822 µg/L	96.822 ppb	15:54:07
3	Sn 189.927†	27.1	32.2	13.110 µg/L	13.110 ppb	15:54:27
3	Ti 334.940†	3486.4	2317.6	4.2958 µg/L	4.2958 ppb	15:54:07
3	Tl 190.801†	3.0	19.6	23.706 µg/L	23.706 ppb	15:54:27
3	U 367.007†	468.2	209.0	56.663 µg/L	56.663 ppb	15:54:07
3	V 292.402†	874.6	616.7	4.5222 µg/L	4.5222 ppb	15:54:07
3	Zn 213.857†	1248.0	853.9	10.841 µg/L	10.841 ppb	15:54:27

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1193755.5	94.752	%	4.8021				5.07%
Sc RADIAL	20914.6	95.0	%	3.71				3.90%
Y 371.029	704340.0	94.525	%	4.7753				5.05%
Ag 328.068†	805.5	5.3585	µg/L	0.28240	5.3585	ppb	0.28240	5.27%
QC value within limits for Ag 328.068 Recovery = 107.17%								
Al 396.153Radial†	125.0	200.45	µg/L	5.466	200.45	ppb	5.466	2.73%
QC value within limits for Al 396.153Radial Recovery = 100.23%								
As 188.979†	13.9	27.445	µg/L	11.4205	27.445	ppb	11.4205	41.61%
QC value within limits for As 188.979 Recovery = 91.48%								
B 249.677†	3904.9	46.733	µg/L	0.6711	46.733	ppb	0.6711	1.44%
QC value within limits for B 249.677 Recovery = 93.47%								
Ba 233.527†	345.5	4.8688	µg/L	0.11289	4.8688	ppb	0.11289	2.32%
QC value within limits for Ba 233.527 Recovery = 97.38%								
Be 313.107†	11112.1	4.8162	µg/L	0.11954	4.8162	ppb	0.11954	2.48%
QC value within limits for Be 313.107 Recovery = 96.32%								
Ca 317.933Radial†	304.8	207.48	µg/L	6.600	207.48	ppb	6.600	3.18%
QC value within limits for Ca 317.933Radial Recovery = 103.74%								
Cd 226.502†	330.7	5.1509	µg/L	0.20159	5.1509	ppb	0.20159	3.91%
QC value within limits for Cd 226.502 Recovery = 103.02%								
Co 228.616†	181.5	5.3457	µg/L	0.23216	5.3457	ppb	0.23216	4.34%

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   QC value within limits for Co 228.616  Recovery = 106.91%
Cr 267.716†              271.7      4.9459 µg/L       0.11408      4.9459 ppb        0.11408   2.31%
   QC value within limits for Cr 267.716  Recovery = 98.92%
Cu 324.752†             1640.3      11.031 µg/L        0.5636      11.031 ppb         0.5636   5.11%
   QC value within limits for Cu 324.752  Recovery = 110.31%
Fe 238.204 Radial†        33.7      114.71 µg/L         9.457      114.71 ppb          9.457   8.24%
   QC value within limits for Fe 238.204 Radial  Recovery = 114.71%
K 766.490 Radial†        131.8      163.30 µg/L        52.670      163.30 ppb         52.670  32.25%
   QC value within limits for K 766.490 Radial  Recovery = 108.87%
Mg 279.077 IEC†           47.6      337.22 µg/L         2.464      337.22 ppb          2.464   0.73%
   QC value within limits for Mg 279.077 IEC  Recovery = 112.41%
Mn 257.610†             3501.6      10.196 µg/L        0.3133      10.196 ppb         0.3133   3.07%
   QC value within limits for Mn 257.610  Recovery = 101.96%
Mo 202.031†               87.1      9.8555 µg/L       0.37515      9.8555 ppb        0.37515   3.81%
   QC value within limits for Mo 202.031  Recovery = 98.55%
Na 589.592 Radial†       418.4      327.16 µg/L        27.280      327.16 ppb         27.280   8.34%
   QC value within limits for Na 589.592 Radial  Recovery = 109.05%
Ni 231.604†              156.0      4.6514 µg/L       0.11577      4.6514 ppb        0.11577   2.49%
   QC value within limits for Ni 231.604  Recovery = 93.03%
P 214.914†               135.4      143.30 µg/L        12.007      143.30 ppb         12.007   8.38%
   QC value within limits for P 214.914  Recovery = 95.54%
Pb 220.353†               44.6      9.5471 µg/L       4.05036      9.5471 ppb        4.05036  42.42%
   QC value within limits for Pb 220.353  Recovery = 95.47%
S 181.975 Axial†          36.1      118.04 µg/L        10.823      118.04 ppb         10.823   9.17%
   QC value within limits for S 181.975 Axial  Recovery = 118.04%
Sb 206.836†               10.7      6.7910 µg/L       0.10476      6.7910 ppb        0.10476   1.54%
   QC value less than the lower limit for Sb 206.836  Recovery = 67.91%
Se 196.026†               27.6        37.6 µg/L          3.69        37.6 ppb           3.69   9.81%
   QC value within limits for Se 196.026  Recovery = 125.27%
SiO2†                   1218.8      224.40 µg/L        17.925      224.40 ppb         17.925   7.99%
   QC value within limits for SiO2  Recovery = 105.35%
Si 251.611†             3315.5      97.471 µg/L        1.1443      97.471 ppb         1.1443   1.17%
   QC value within limits for Si 251.611  Recovery = 97.47%
Sn 189.927†               29.8      12.135 µg/L        0.8444      12.135 ppb         0.8444   6.96%
   QC value within limits for Sn 189.927  Recovery = 121.35%
Sr 421.552†              479.7      5.4736 µg/L       0.46500      5.4736 ppb        0.46500   8.50%
   QC value within limits for Sr 421.552  Recovery = 109.47%
Ti 334.940†             2386.1      4.4292 µg/L       0.21660      4.4292 ppb        0.21660   4.89%
   QC value within limits for Ti 334.940  Recovery = 88.58%
Tl 190.801†               18.6      22.468 µg/L        4.9343      22.468 ppb         4.9343  21.96%
   QC value within limits for Tl 190.801  Recovery = 112.34%
U 367.007†               168.3      45.504 µg/L        9.9079      45.504 ppb         9.9079  21.77%
   QC value within limits for U 367.007  Recovery = 91.01%
V 292.402†               687.2      5.0177 µg/L       0.61550      5.0177 ppb        0.61550  12.27%
   QC value within limits for V 292.402  Recovery = 100.35%
Zn 213.857†              807.6      10.250 µg/L        0.5218      10.250 ppb         0.5218   5.09%
   QC value within limits for Zn 213.857  Recovery = 102.50%
QC Failed.  Continue with analysis.
```

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Sequence No.: 8 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 15:54:36**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21533.3	21533.3	97.8	%			15:55:25
1	Al 396.153Radial†	-85.6	3.6	5.7944	µg/L	5.7944	ppb	15:55:25
1	Ca 317.933Radial†	92.2	12.0	8.1925	µg/L	8.1925	ppb	15:55:45
1	Fe 238.204 Radial†	25.5	-2.0	-6.9072	µg/L	-6.9072	ppb	15:55:45
1	K 766.490 Radial†	651.0	13.5	16.734	µg/L	16.734	ppb	15:55:25
1	Mg 279.077 IEC†	-1.2	-5.5	-38.941	µg/L	-38.941	ppb	15:55:45
1	Na 589.592 Radial†	-60.5	-29.0	-22.659	µg/L	-22.659	ppb	15:55:25
1	Sr 421.552†	54.1	21.7	0.2473	µg/L	0.2473	ppb	15:55:25
1	Sc 361.383	1229846.1	1229846.1	97.617	%			15:57:22
1	Y 371.029	725366.6	725366.6	97.347	%			15:57:22
1	Ag 328.068†	575.7	-79.9	-0.5235	µg/L	-0.5235	ppb	15:57:24
1	As 188.979†	-7.4	-5.1	-9.9632	µg/L	-9.9632	ppb	15:57:44
1	B 249.677†	346.8	95.8	1.1786	µg/L	1.1786	ppb	15:57:44
1	Ba 233.527†	-75.6	5.1	0.0718	µg/L	0.0718	ppb	15:57:44
1	Be 313.107†	-7369.6	-680.4	-0.2949	µg/L	-0.2949	ppb	15:57:24
1	Cd 226.502†	-97.4	9.7	0.1525	µg/L	0.1525	ppb	15:57:44
1	Co 228.616†	-86.7	9.6	0.2837	µg/L	0.2837	ppb	15:57:44
1	Cr 267.716†	120.6	3.9	0.0788	µg/L	0.0788	ppb	15:57:44
1	Cu 324.752†	3930.4	164.4	1.0954	µg/L	1.0954	ppb	15:57:24
1	Mn 257.610†	198.3	-2.1	-0.0048	µg/L	-0.0048	ppb	15:57:44
1	Mo 202.031†	-12.3	-3.8	-0.4312	µg/L	-0.4312	ppb	15:57:44
1	Ni 231.604†	-54.0	-12.5	-0.3730	µg/L	-0.3730	ppb	15:57:44
1	P 214.914†	-71.6	-13.3	-14.140	µg/L	-14.140	ppb	15:57:44
1	Pb 220.353†	97.2	-2.9	-0.6150	µg/L	-0.6150	ppb	15:57:44
1	S 181.975 Axial†	22.6	0.2	0.7593	µg/L	0.7593	ppb	15:57:44
1	Sb 206.836†	-0.5	-5.9	-3.7218	µg/L	-3.7218	ppb	15:57:44
1	Se 196.026†	15.2	4.5	6.10	µg/L	6.10	ppb	15:57:44
1	SiO2†	1819.1	42.2	7.7693	µg/L	7.7693	ppb	15:57:44
1	Si 251.611†	413.4	10.4	0.3105	µg/L	0.3105	ppb	15:57:44
1	Sn 189.927†	-0.2	1.6	0.6626	µg/L	0.6626	ppb	15:57:44
1	Ti 334.940†	1210.2	-345.0	-0.6360	µg/L	-0.6360	ppb	15:57:24
1	Tl 190.801†	-20.1	-4.3	-5.2437	µg/L	-5.2437	ppb	15:57:44
1	U 367.007†	263.8	-44.8	-12.247	µg/L	-12.247	ppb	15:57:24
1	V 292.402†	358.2	4.7	0.0202	µg/L	0.0202	ppb	15:57:24
1	Zn 213.857†	532.1	2.2	0.0302	µg/L	0.0302	ppb	15:57:44
2	Sc RADIAL	21332.3	21332.3	96.9	%			15:56:05
2	Al 396.153Radial†	-88.6	-0.3	-0.5252	µg/L	-0.5252	ppb	15:56:05
2	Ca 317.933Radial†	88.3	8.9	6.0973	µg/L	6.0973	ppb	15:56:25
2	Fe 238.204 Radial†	31.4	4.3	14.498	µg/L	14.498	ppb	15:56:25
2	K 766.490 Radial†	627.4	-4.6	-5.7442	µg/L	-5.7442	ppb	15:56:05
2	Mg 279.077 IEC†	-0.0	-4.3	-30.381	µg/L	-30.381	ppb	15:56:25
2	Na 589.592 Radial†	-52.4	-21.2	-16.541	µg/L	-16.541	ppb	15:56:05
2	Sr 421.552†	47.6	15.5	0.1771	µg/L	0.1771	ppb	15:56:05
2	Sc 361.383	1220066.0	1220066.0	96.841	%			15:57:46
2	Y 371.029	719821.1	719821.1	96.603	%			15:57:46
2	Ag 328.068†	572.6	-78.4	-0.5183	µg/L	-0.5183	ppb	15:57:48
2	As 188.979†	-5.0	-2.7	-5.2193	µg/L	-5.2193	ppb	15:58:08
2	B 249.677†	282.5	32.3	0.3387	µg/L	0.3387	ppb	15:58:08
2	Ba 233.527†	-73.0	7.1	0.1004	µg/L	0.1004	ppb	15:58:08
2	Be 313.107†	-7268.7	-636.8	-0.2760	µg/L	-0.2760	ppb	15:57:48
2	Cd 226.502†	-107.0	-1.0	-0.0167	µg/L	-0.0167	ppb	15:58:08
2	Co 228.616†	-86.0	9.6	0.2818	µg/L	0.2818	ppb	15:58:08
2	Cr 267.716†	138.3	23.1	0.4280	µg/L	0.4280	ppb	15:58:08
2	Cu 324.752†	3892.9	158.0	1.0578	µg/L	1.0578	ppb	15:57:48
2	Mn 257.610†	196.6	-2.3	-0.0052	µg/L	-0.0052	ppb	15:58:08
2	Mo 202.031†	-12.7	-4.2	-0.4793	µg/L	-0.4793	ppb	15:58:08
2	Ni 231.604†	-37.2	4.4	0.1324	µg/L	0.1324	ppb	15:58:08
2	P 214.914†	-66.1	-8.2	-8.6924	µg/L	-8.6924	ppb	15:58:08
2	Pb 220.353†	90.7	-8.7	-1.8690	µg/L	-1.8690	ppb	15:58:08

2	S 181.975 Axial†	22.5	0.3	1.0255	µg/L	1.0255	ppb	15:58:08
2	Sb 206.836†	3.6	-1.7	-1.0556	µg/L	-1.0556	ppb	15:58:08
2	Se 196.026†	13.7	3.1	4.20	µg/L	4.20	ppb	15:58:08
2	SiO2†	1832.0	70.5	12.976	µg/L	12.976	ppb	15:58:08
2	Si 251.611†	398.6	-1.5	-0.0368	µg/L	-0.0368	ppb	15:58:08
2	Sn 189.927†	10.9	13.1	5.3213	µg/L	5.3213	ppb	15:58:08
2	Ti 334.940†	1482.0	-54.4	-0.0975	µg/L	-0.0975	ppb	15:57:48
2	Tl 190.801†	-13.8	2.1	2.4908	µg/L	2.4908	ppb	15:58:08
2	U 367.007†	280.1	-25.8	-7.1495	µg/L	-7.1495	ppb	15:57:48
2	V 292.402†	356.2	5.5	0.0320	µg/L	0.0320	ppb	15:57:48
2	Zn 213.857†	518.6	-7.4	-0.0973	µg/L	-0.0973	ppb	15:58:08
3	Sc RADIAL	20965.5	20965.5	95.2	%			15:56:45
3	Al 396.153Radial†	-79.1	8.1	12.931	µg/L	12.931	ppb	15:56:45
3	Ca 317.933Radial†	82.5	4.4	2.9737	µg/L	2.9737	ppb	15:57:05
3	Fe 238.204 Radial†	26.6	-0.2	-0.7685	µg/L	-0.7685	ppb	15:57:05
3	K 766.490 Radial†	585.6	-37.2	-46.082	µg/L	-46.082	ppb	15:56:45
3	Mg 279.077 IEC†	-1.5	-5.8	-41.179	µg/L	-41.179	ppb	15:57:05
3	Na 589.592 Radial†	-28.8	2.6	2.0417	µg/L	2.0417	ppb	15:56:45
3	Sr 421.552†	54.5	23.6	0.2691	µg/L	0.2691	ppb	15:56:45
3	Sc 361.383	1233108.0	1233108.0	97.876	%			15:58:10
3	Y 371.029	727112.1	727112.1	97.581	%			15:58:10
3	Ag 328.068†	499.4	-159.5	-1.0826	µg/L	-1.0826	ppb	15:58:12
3	As 188.979†	-7.9	-5.6	-10.935	µg/L	-10.935	ppb	15:58:33
3	B 249.677†	321.5	69.0	0.8558	µg/L	0.8558	ppb	15:58:33
3	Ba 233.527†	-81.9	-1.1	-0.0180	µg/L	-0.0180	ppb	15:58:33
3	Be 313.107†	-7561.3	-856.3	-0.3711	µg/L	-0.3711	ppb	15:58:12
3	Cd 226.502†	-101.7	5.5	0.0867	µg/L	0.0867	ppb	15:58:33
3	Co 228.616†	-98.2	-2.0	-0.0594	µg/L	-0.0594	ppb	15:58:33
3	Cr 267.716†	150.2	33.8	0.6098	µg/L	0.6098	ppb	15:58:33
3	Cu 324.752†	3941.1	164.8	1.1112	µg/L	1.1112	ppb	15:58:12
3	Mn 257.610†	182.5	-18.8	-0.0534	µg/L	-0.0534	ppb	15:58:33
3	Mo 202.031†	-15.0	-6.5	-0.7307	µg/L	-0.7307	ppb	15:58:33
3	Ni 231.604†	-41.9	0.0	0.0009	µg/L	0.0009	ppb	15:58:33
3	P 214.914†	-68.1	-9.6	-10.146	µg/L	-10.146	ppb	15:58:33
3	Pb 220.353†	93.7	-6.7	-1.4516	µg/L	-1.4516	ppb	15:58:33
3	S 181.975 Axial†	26.2	3.8	12.532	µg/L	12.532	ppb	15:58:33
3	Sb 206.836†	2.7	-2.5	-1.6181	µg/L	-1.6181	ppb	15:58:33
3	Se 196.026†	6.7	-4.2	-5.78	µg/L	-5.78	ppb	15:58:33
3	SiO2†	1828.7	47.1	8.6838	µg/L	8.6838	ppb	15:58:33
3	Si 251.611†	427.1	23.2	0.6937	µg/L	0.6937	ppb	15:58:33
3	Sn 189.927†	-2.1	-0.3	-0.1203	µg/L	-0.1203	ppb	15:58:33
3	Ti 334.940†	1600.8	50.8	0.0873	µg/L	0.0873	ppb	15:58:12
3	Tl 190.801†	-17.9	-2.1	-2.5117	µg/L	-2.5117	ppb	15:58:33
3	U 367.007†	360.4	53.2	14.603	µg/L	14.603	ppb	15:58:12
3	V 292.402†	228.0	-129.3	-0.9111	µg/L	-0.9111	ppb	15:58:12
3	Zn 213.857†	537.1	5.8	0.0745	µg/L	0.0745	ppb	15:58:33

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1227673.4	97.445	%	0.5387				0.55%
Sc RADIAL	21277.0	96.6	%	1.31				1.35%
Y 371.029	724099.9	97.177	%	0.5109				0.53%
Ag 328.068†	-105.9	-0.7081	µg/L	0.32431	-0.7081	ppb	0.32431	45.80%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	3.8	6.0667	µg/L	6.73230	6.0667	ppb	6.73230	110.97%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-4.4	-8.7058	µg/L	3.05821	-8.7058	ppb	3.05821	35.13%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	65.7	0.7910	µg/L	0.42365	0.7910	ppb	0.42365	53.56%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	3.7	0.0514	µg/L	0.06180	0.0514	ppb	0.06180	120.28%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-724.5	-0.3140	µg/L	0.05037	-0.3140	ppb	0.05037	16.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.4	5.7545	µg/L	2.62625	5.7545	ppb	2.62625	45.64%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	4.8	0.0742	µg/L	0.08531	0.0742	ppb	0.08531	115.04%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	5.7	0.1687	µg/L	0.19750	0.1687	ppb	0.19750	117.08%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                20.2      0.3722 µg/L       0.26986      0.3722 ppb        0.26986  72.50%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               162.4      1.0881 µg/L       0.02742      1.0881 ppb        0.02742   2.52%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.7      2.2742 µg/L      11.02233      2.2742 ppb       11.02233 484.68%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          -9.4     -11.697 µg/L       31.8284     -11.697 ppb        31.8284 272.10%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -5.2     -36.834 µg/L        5.6992     -36.834 ppb         5.6992  15.47%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                -7.7     -0.0211 µg/L       0.02794     -0.0211 ppb        0.02794 132.23%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -4.8     -0.5471 µg/L       0.16084     -0.5471 ppb        0.16084  29.40%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -15.8     -12.386 µg/L       12.8638     -12.386 ppb        12.8638 103.86%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -2.7     -0.0799 µg/L       0.26219     -0.0799 ppb        0.26219 328.07%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -10.4     -10.993 µg/L        2.8209     -10.993 ppb         2.8209  25.66%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -6.1     -1.3119 µg/L       0.63858     -1.3119 ppb        0.63858  48.68%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            1.5      4.7723 µg/L       6.72155      4.7723 ppb        6.72155 140.84%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -3.4     -2.1318 µg/L       1.40534     -2.1318 ppb        1.40534  65.92%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 1.1        1.51 µg/L         6.380        1.51 ppb          6.380 423.35%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      53.3      9.8099 µg/L       2.78020      9.8099 ppb        2.78020  28.34%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                10.7      0.3225 µg/L       0.36540      0.3225 ppb        0.36540 113.31%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 4.8      1.9545 µg/L       2.94188      1.9545 ppb        2.94188 150.52%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                20.3      0.2312 µg/L       0.04807      0.2312 ppb        0.04807  20.79%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -116.2     -0.2154 µg/L       0.37578     -0.2154 ppb        0.37578 174.49%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -1.4     -1.7549 µg/L       3.92237     -1.7549 ppb        3.92237 223.51%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 -5.8     -1.5977 µg/L      14.26006     -1.5977 ppb       14.26006 892.55%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -39.7     -0.2863 µg/L       0.54112     -0.2863 ppb        0.54112 189.02%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                 0.2      0.0025 µg/L       0.08923      0.0025 ppb        0.08923 >999.9%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 9 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 15:58:41**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21760.3	21760.3	98.8	%			15:59:11
1	Al 396.153Radial†	3132.9	3261.7	5227.7	µg/L	5227.7	ppb	15:59:32
1	Ca 317.933Radial†	7214.7	7219.3	4914.3	µg/L	4914.3	ppb	15:59:32
1	Fe 238.204 Radial†	1486.3	1476.1	5021.1	µg/L	5021.1	ppb	15:59:32
1	K 766.490 Radial†	4610.4	4013.6	4976.7	µg/L	4976.7	ppb	15:59:11
1	Mg 279.077 IEC†	721.3	725.7	5138.2	µg/L	5138.2	ppb	15:59:32
1	Na 589.592 Radial†	13601.2	13797.7	10790	µg/L	10790	ppb	15:59:11
1	Sr 421.552†	42239.6	42714.2	487.47	µg/L	487.47	ppb	15:59:11
1	Sc 361.383	1243644.2	1243644.2	98.712	%			16:00:34
1	Y 371.029	720584.2	720584.2	96.705	%			16:00:34
1	Ag 328.068†	74489.2	74791.2	501.17	µg/L	501.17	ppb	16:00:36
1	As 188.979†	234.7	240.3	480.78	µg/L	480.78	ppb	16:00:56
1	B 249.677†	40499.7	40768.5	473.77	µg/L	473.77	ppb	16:00:36
1	Ba 233.527†	34611.2	35145.3	495.35	µg/L	495.35	ppb	16:00:36
1	Be 313.107†	1107558.3	1128875.2	489.28	µg/L	489.28	ppb	16:00:34
1	Cd 226.502†	31226.9	31743.7	495.24	µg/L	495.24	ppb	16:00:36
1	Co 228.616†	16644.1	16959.6	498.89	µg/L	498.89	ppb	16:00:36
1	Cr 267.716†	26701.1	26929.7	493.02	µg/L	493.02	ppb	16:00:36
1	Cu 324.752†	76780.0	73919.7	496.46	µg/L	496.46	ppb	16:00:36
1	Mn 257.610†	168489.3	170481.9	496.84	µg/L	496.84	ppb	16:00:36
1	Mo 202.031†	4273.9	4338.5	490.34	µg/L	490.34	ppb	16:00:56
1	Ni 231.604†	16403.7	16660.6	496.94	µg/L	496.94	ppb	16:00:36
1	P 214.914†	2278.0	2367.8	2496.7	µg/L	2496.7	ppb	16:00:56
1	Pb 220.353†	2358.4	2286.8	491.51	µg/L	491.51	ppb	16:00:56
1	S 181.975 Axial†	316.0	297.2	968.47	µg/L	968.47	ppb	16:00:56
1	Sb 206.836†	781.5	786.3	497.03	µg/L	497.03	ppb	16:00:56
1	Se 196.026†	363.1	356.8	487	µg/L	487	ppb	16:00:56
1	SiO2†	30249.4	28822.7	5314.4	µg/L	5314.4	ppb	16:00:36
1	Si 251.611†	83813.7	84493.9	2481.1	µg/L	2481.1	ppb	16:00:36
1	Sn 189.927†	1214.8	1232.5	501.81	µg/L	501.81	ppb	16:00:56
1	Ti 334.940†	264529.8	266395.8	496.13	µg/L	496.13	ppb	16:00:36
1	Tl 190.801†	381.7	403.0	483.62	µg/L	483.62	ppb	16:00:56
1	U 367.007†	2047.2	1758.9	453.50	µg/L	453.50	ppb	16:00:36
1	V 292.402†	69384.7	69927.5	500.80	µg/L	500.80	ppb	16:00:36
1	Zn 213.857†	38686.5	38648.3	489.35	µg/L	489.35	ppb	16:00:36
2	Sc RADIAL	21857.8	21857.8	99.3	%			15:59:34
2	Al 396.153Radial†	3157.5	3272.4	5245.1	µg/L	5245.1	ppb	15:59:54
2	Ca 317.933Radial†	7262.7	7235.1	4925.1	µg/L	4925.1	ppb	15:59:54
2	Fe 238.204 Radial†	1507.9	1491.1	5072.9	µg/L	5072.9	ppb	15:59:54
2	K 766.490 Radial†	4754.4	4137.8	5130.1	µg/L	5130.1	ppb	15:59:34
2	Mg 279.077 IEC†	727.3	728.5	5158.0	µg/L	5158.0	ppb	15:59:54
2	Na 589.592 Radial†	13801.6	13938.3	10900	µg/L	10900	ppb	15:59:34
2	Sr 421.552†	42738.4	43026.1	491.03	µg/L	491.03	ppb	15:59:34
2	Sc 361.383	1264994.5	1264994.5	100.41	%			16:00:59
2	Y 371.029	732614.6	732614.6	98.319	%			16:00:59
2	Ag 328.068†	72968.4	72003.0	482.48	µg/L	482.48	ppb	16:01:01
2	As 188.979†	225.1	226.8	453.91	µg/L	453.91	ppb	16:01:21
2	B 249.677†	39383.9	38964.8	451.62	µg/L	451.62	ppb	16:01:01
2	Ba 233.527†	33769.9	33715.6	475.20	µg/L	475.20	ppb	16:01:01
2	Be 313.107†	1127944.2	1130241.4	489.87	µg/L	489.87	ppb	16:00:59
2	Cd 226.502†	30347.5	30334.0	473.21	µg/L	473.21	ppb	16:01:01
2	Co 228.616†	16161.5	16194.4	476.38	µg/L	476.38	ppb	16:01:01
2	Cr 267.716†	26055.9	25830.5	472.90	µg/L	472.90	ppb	16:01:01
2	Cu 324.752†	75126.9	70960.6	476.62	µg/L	476.62	ppb	16:01:01
2	Mn 257.610†	164896.4	164022.7	478.01	µg/L	478.01	ppb	16:01:01
2	Mo 202.031†	4202.2	4194.0	474.02	µg/L	474.02	ppb	16:01:21
2	Ni 231.604†	16018.7	15996.6	477.14	µg/L	477.14	ppb	16:01:01
2	P 214.914†	2220.6	2271.7	2395.0	µg/L	2395.0	ppb	16:01:21
2	Pb 220.353†	2328.5	2216.6	476.42	µg/L	476.42	ppb	16:01:21

2	S 181.975 Axial†	315.4	291.2	948.75 µg/L	948.75 ppb	16:01:21
2	Sb 206.836†	770.0	761.5	481.39 µg/L	481.39 ppb	16:01:21
2	Se 196.026†	358.8	346.2	473 µg/L	473 ppb	16:01:21
2	SiO2†	29477.0	27536.3	5077.2 µg/L	5077.2 ppb	16:01:01
2	Si 251.611†	81822.0	81077.2	2380.7 µg/L	2380.7 ppb	16:01:01
2	Sn 189.927†	1191.3	1188.3	483.86 µg/L	483.86 ppb	16:01:21
2	Ti 334.940†	258701.9	256068.6	476.90 µg/L	476.90 ppb	16:01:01
2	Tl 190.801†	365.4	380.1	456.15 µg/L	456.15 ppb	16:01:21
2	U 367.007†	2048.6	1725.2	444.11 µg/L	444.11 ppb	16:01:01
2	V 292.402†	67949.3	67311.6	482.13 µg/L	482.13 ppb	16:01:01
2	Zn 213.857†	37842.2	37145.9	470.30 µg/L	470.30 ppb	16:01:01
3	Sc RADIAL	21550.7	21550.7	97.9 %		15:59:56
3	Al 396.153Radial†	3111.3	3270.5	5241.9 µg/L	5241.9 ppb	16:00:16
3	Ca 317.933Radial†	7243.8	7319.9	4982.8 µg/L	4982.8 ppb	16:00:16
3	Fe 238.204 Radial†	1502.9	1507.6	5129.3 µg/L	5129.3 ppb	16:00:16
3	K 766.490 Radial†	4491.6	3937.5	4882.2 µg/L	4882.2 ppb	15:59:56
3	Mg 279.077 IEC†	721.7	733.2	5191.7 µg/L	5191.7 ppb	16:00:16
3	Na 589.592 Radial†	13461.1	13788.4	10782 µg/L	10782 ppb	15:59:56
3	Sr 421.552†	41915.4	42798.4	488.43 µg/L	488.43 ppb	15:59:56
3	Sc 361.383	1275355.3	1275355.3	101.23 %		16:01:23
3	Y 371.029	737930.6	737930.6	99.033 %		16:01:23
3	Ag 328.068†	74110.3	72540.6	486.08 µg/L	486.08 ppb	16:01:25
3	As 188.979†	234.9	234.6	469.40 µg/L	469.40 ppb	16:01:45
3	B 249.677†	40294.2	39545.4	458.55 µg/L	458.55 ppb	16:01:25
3	Ba 233.527†	34261.4	33927.9	478.20 µg/L	478.20 ppb	16:01:25
3	Be 313.107†	1116181.8	1109495.8	480.88 µg/L	480.88 ppb	16:01:23
3	Cd 226.502†	30905.6	30639.8	477.98 µg/L	477.98 ppb	16:01:25
3	Co 228.616†	16507.5	16405.4	482.59 µg/L	482.59 ppb	16:01:25
3	Cr 267.716†	26588.5	26145.9	478.68 µg/L	478.68 ppb	16:01:25
3	Cu 324.752†	76477.6	71687.0	481.50 µg/L	481.50 ppb	16:01:25
3	Mn 257.610†	167518.0	165278.4	481.67 µg/L	481.67 ppb	16:01:25
3	Mo 202.031†	4283.0	4239.9	479.20 µg/L	479.20 ppb	16:01:45
3	Ni 231.604†	16322.8	16167.4	482.23 µg/L	482.23 ppb	16:01:25
3	P 214.914†	2282.4	2314.7	2440.5 µg/L	2440.5 ppb	16:01:45
3	Pb 220.353†	2356.0	2225.0	478.23 µg/L	478.23 ppb	16:01:45
3	S 181.975 Axial†	314.9	288.2	938.84 µg/L	938.84 ppb	16:01:45
3	Sb 206.836†	780.9	766.1	484.29 µg/L	484.29 ppb	16:01:45
3	Se 196.026†	371.2	355.6	486 µg/L	486 ppb	16:01:45
3	SiO2†	30068.8	27882.4	5141.0 µg/L	5141.0 ppb	16:01:25
3	Si 251.611†	83241.7	81817.7	2402.4 µg/L	2402.4 ppb	16:01:25
3	Sn 189.927†	1224.6	1211.5	493.30 µg/L	493.30 ppb	16:01:45
3	Ti 334.940†	262747.4	257971.8	480.44 µg/L	480.44 ppb	16:01:25
3	Tl 190.801†	375.6	387.3	464.76 µg/L	464.76 ppb	16:01:45
3	U 367.007†	2063.5	1723.4	443.28 µg/L	443.28 ppb	16:01:25
3	V 292.402†	68957.4	67757.6	485.36 µg/L	485.36 ppb	16:01:25
3	Zn 213.857†	38497.9	37487.4	474.62 µg/L	474.62 ppb	16:01:25

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1261331.4	100.12	%	1.283				1.28%
Sc RADIAL	21722.9	98.6	%	0.71				0.72%
Y 371.029	730376.5	98.019	%	1.1927				1.22%
Ag 328.068†	73111.6	489.91	µg/L	9.919	489.91	ppb	9.919	2.02%
QC value within limits for Ag 328.068 Recovery = 97.98%								
Al 396.153Radial†	3268.2	5238.3	µg/L	9.24	5238.3	ppb	9.24	0.18%
QC value within limits for Al 396.153Radial Recovery = 104.77%								
As 188.979†	233.9	468.03	µg/L	13.489	468.03	ppb	13.489	2.88%
QC value within limits for As 188.979 Recovery = 93.61%								
B 249.677†	39759.6	461.31	µg/L	11.329	461.31	ppb	11.329	2.46%
QC value within limits for B 249.677 Recovery = 92.26%								
Ba 233.527†	34262.9	482.92	µg/L	10.873	482.92	ppb	10.873	2.25%
QC value within limits for Ba 233.527 Recovery = 96.58%								
Be 313.107†	1122870.8	486.68	µg/L	5.029	486.68	ppb	5.029	1.03%
QC value within limits for Be 313.107 Recovery = 97.34%								
Ca 317.933Radial†	7258.1	4940.7	µg/L	36.85	4940.7	ppb	36.85	0.75%
QC value within limits for Ca 317.933Radial Recovery = 98.81%								
Cd 226.502†	30905.8	482.15	µg/L	11.589	482.15	ppb	11.589	2.40%
QC value within limits for Cd 226.502 Recovery = 96.43%								
Co 228.616†	16519.8	485.95	µg/L	11.626	485.95	ppb	11.626	2.39%

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   QC value within limits for Co 228.616  Recovery = 97.19%
Cr 267.716†            26302.0      481.53 µg/L        10.361      481.53 ppb         10.361   2.15%
   QC value within limits for Cr 267.716  Recovery = 96.31%
Cu 324.752†            72189.1      484.86 µg/L        10.336      484.86 ppb         10.336   2.13%
   QC value within limits for Cu 324.752  Recovery = 96.97%
Fe 238.204 Radial†      1491.6      5074.4 µg/L         54.08      5074.4 ppb          54.08   1.07%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.49%
K 766.490 Radial†       4029.6      4996.3 µg/L        125.11      4996.3 ppb         125.11   2.50%
   QC value within limits for K 766.490 Radial  Recovery = 99.93%
Mg 279.077 IEC†          729.1      5162.7 µg/L         27.03      5162.7 ppb          27.03   0.52%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.25%
Mn 257.610†           166594.3      485.51 µg/L         9.982      485.51 ppb          9.982   2.06%
   QC value within limits for Mn 257.610  Recovery = 97.10%
Mo 202.031†             4257.5      481.19 µg/L         8.335      481.19 ppb          8.335   1.73%
   QC value within limits for Mo 202.031  Recovery = 96.24%
Na 589.592 Radial†     13841.5       10824 µg/L          65.7       10824 ppb           65.7   0.61%
   QC value within limits for Na 589.592 Radial  Recovery = 108.24%
Ni 231.604†            16274.8      485.44 µg/L        10.285      485.44 ppb         10.285   2.12%
   QC value within limits for Ni 231.604  Recovery = 97.09%
P 214.914†              2318.0      2444.1 µg/L         50.94      2444.1 ppb          50.94   2.08%
   QC value within limits for P 214.914  Recovery = 97.76%
Pb 220.353†             2242.8      482.05 µg/L         8.239      482.05 ppb          8.239   1.71%
   QC value within limits for Pb 220.353  Recovery = 96.41%
S 181.975 Axial†         292.2      952.02 µg/L        15.086      952.02 ppb         15.086   1.58%
   QC value within limits for S 181.975 Axial  Recovery = 95.20%
Sb 206.836†              771.3      487.57 µg/L         8.319      487.57 ppb          8.319   1.71%
   QC value within limits for Sb 206.836  Recovery = 97.51%
Se 196.026†              352.9         482 µg/L           7.9         482 ppb            7.9   1.63%
   QC value within limits for Se 196.026  Recovery = 96.39%
SiO2†                  28080.5      5177.5 µg/L        122.72      5177.5 ppb         122.72   2.37%
   QC value within limits for SiO2  Recovery = 96.82%
Si 251.611†            82462.9      2421.4 µg/L         52.79      2421.4 ppb          52.79   2.18%
   QC value within limits for Si 251.611  Recovery = 96.86%
Sn 189.927†             1210.8      492.99 µg/L         8.980      492.99 ppb          8.980   1.82%
   QC value within limits for Sn 189.927  Recovery = 98.60%
Sr 421.552†            42846.2      488.97 µg/L         1.841      488.97 ppb          1.841   0.38%
   QC value within limits for Sr 421.552  Recovery = 97.79%
Ti 334.940†           260145.4      484.49 µg/L        10.232      484.49 ppb         10.232   2.11%
   QC value within limits for Ti 334.940  Recovery = 96.90%
Tl 190.801†              390.1      468.17 µg/L        14.049      468.17 ppb         14.049   3.00%
   QC value within limits for Tl 190.801  Recovery = 93.63%
U 367.007†              1735.8      446.96 µg/L         5.676      446.96 ppb          5.676   1.27%
   QC value less than the lower limit for U 367.007  Recovery = 89.39%
V 292.402†             68332.2      489.43 µg/L         9.980      489.43 ppb          9.980   2.04%
   QC value within limits for V 292.402  Recovery = 97.89%
Zn 213.857†            37760.5      478.09 µg/L         9.987      478.09 ppb          9.987   2.09%
   QC value within limits for Zn 213.857  Recovery = 95.62%
QC Failed.  Continue with analysis.
```

Sequence No.: 10 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 16:01:54**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21667.4	21667.4	98.4	%			16:02:42
1	Al 396.153Radial†	-84.1	5.7	9.1859	µg/L	9.1859	ppb	16:02:42
1	Ca 317.933Radial†	90.1	9.3	6.3666	µg/L	6.3666	ppb	16:03:02
1	Fe 238.204 Radial†	28.5	0.9	2.9804	µg/L	2.9804	ppb	16:03:02
1	K 766.490 Radial†	607.2	-35.2	-43.607	µg/L	-43.607	ppb	16:02:42
1	Mg 279.077 IEC†	3.3	-0.9	-6.5530	µg/L	-6.5530	ppb	16:03:02
1	Na 589.592 Radial†	-17.5	15.1	11.840	µg/L	11.840	ppb	16:02:42
1	Sr 421.552†	54.0	21.3	0.2430	µg/L	0.2430	ppb	16:02:42
1	Sc 361.383	1222295.2	1222295.2	97.018	%			16:04:40
1	Y 371.029	722422.3	722422.3	96.952	%			16:04:40
1	Ag 328.068†	672.5	23.4	0.1719	µg/L	0.1719	ppb	16:04:42
1	As 188.979†	-2.4	0.1	0.1458	µg/L	0.1458	ppb	16:05:02
1	B 249.677†	340.1	91.1	1.1074	µg/L	1.1074	ppb	16:05:02
1	Ba 233.527†	-73.2	7.2	0.1015	µg/L	0.1015	ppb	16:05:02
1	Be 313.107†	-6586.5	80.2	0.0348	µg/L	0.0348	ppb	16:04:42
1	Cd 226.502†	-100.8	5.6	0.0869	µg/L	0.0869	ppb	16:05:02
1	Co 228.616†	-101.7	-6.4	-0.1886	µg/L	-0.1886	ppb	16:05:02
1	Cr 267.716†	110.9	-5.4	-0.0875	µg/L	-0.0875	ppb	16:05:02
1	Cu 324.752†	3815.2	70.6	0.4657	µg/L	0.4657	ppb	16:04:42
1	Mn 257.610†	209.7	10.9	0.0320	µg/L	0.0320	ppb	16:05:02
1	Mo 202.031†	-12.8	-4.3	-0.4879	µg/L	-0.4879	ppb	16:05:02
1	Ni 231.604†	-45.2	-3.8	-0.1133	µg/L	-0.1133	ppb	16:05:02
1	P 214.914†	-59.5	-1.3	-1.3292	µg/L	-1.3292	ppb	16:05:02
1	Pb 220.353†	85.4	-14.4	-3.0670	µg/L	-3.0670	ppb	16:05:02
1	S 181.975 Axial†	26.8	4.7	15.475	µg/L	15.475	ppb	16:05:02
1	Sb 206.836†	3.9	-1.3	-0.8221	µg/L	-0.8221	ppb	16:05:02
1	Se 196.026†	9.7	-1.2	-1.57	µg/L	-1.57	ppb	16:05:02
1	SiO2†	1792.7	26.6	4.8892	µg/L	4.8892	ppb	16:05:02
1	Si 251.611†	432.7	32.9	0.9743	µg/L	0.9743	ppb	16:05:02
1	Sn 189.927†	0.2	2.1	0.8440	µg/L	0.8440	ppb	16:05:02
1	Ti 334.940†	1511.7	-26.6	-0.0405	µg/L	-0.0405	ppb	16:04:42
1	Tl 190.801†	-7.1	9.0	10.875	µg/L	10.875	ppb	16:05:02
1	U 367.007†	245.9	-61.6	-16.901	µg/L	-16.901	ppb	16:04:42
1	V 292.402†	382.4	31.8	0.2090	µg/L	0.2090	ppb	16:04:42
1	Zn 213.857†	532.4	5.8	0.0741	µg/L	0.0741	ppb	16:05:02
2	Sc RADIAL	21631.4	21631.4	98.2	%			16:03:22
2	Al 396.153Radial†	-93.3	-3.8	-6.1047	µg/L	-6.1047	ppb	16:03:22
2	Ca 317.933Radial†	81.8	1.0	0.6758	µg/L	0.6758	ppb	16:03:42
2	Fe 238.204 Radial†	31.4	3.8	12.999	µg/L	12.999	ppb	16:03:42
2	K 766.490 Radial†	633.1	-7.7	-9.5800	µg/L	-9.5800	ppb	16:03:22
2	Mg 279.077 IEC†	-0.2	-4.5	-31.623	µg/L	-31.623	ppb	16:03:42
2	Na 589.592 Radial†	-40.3	-8.1	-6.3369	µg/L	-6.3369	ppb	16:03:22
2	Sr 421.552†	59.2	26.6	0.3040	µg/L	0.3040	ppb	16:03:22
2	Sc 361.383	1224294.2	1224294.2	97.176	%			16:05:04
2	Y 371.029	723873.2	723873.2	97.146	%			16:05:04
2	Ag 328.068†	457.9	-198.5	-1.3139	µg/L	-1.3139	ppb	16:05:06
2	As 188.979†	-3.4	-0.9	-1.8068	µg/L	-1.8068	ppb	16:05:26
2	B 249.677†	384.6	136.4	1.6033	µg/L	1.6033	ppb	16:05:26
2	Ba 233.527†	-76.4	4.0	0.0549	µg/L	0.0549	ppb	16:05:26
2	Be 313.107†	-6726.6	-52.9	-0.0229	µg/L	-0.0229	ppb	16:05:06
2	Cd 226.502†	-113.8	-7.6	-0.1203	µg/L	-0.1203	ppb	16:05:26
2	Co 228.616†	-96.8	-1.2	-0.0340	µg/L	-0.0340	ppb	16:05:26
2	Cr 267.716†	124.6	8.5	0.1665	µg/L	0.1665	ppb	16:05:26
2	Cu 324.752†	3811.5	60.4	0.3986	µg/L	0.3986	ppb	16:05:06
2	Mn 257.610†	203.4	4.1	0.0133	µg/L	0.0133	ppb	16:05:26
2	Mo 202.031†	-0.5	8.3	0.9408	µg/L	0.9408	ppb	16:05:26
2	Ni 231.604†	-43.0	-1.4	-0.0422	µg/L	-0.0422	ppb	16:05:26
2	P 214.914†	-69.2	-11.2	-11.889	µg/L	-11.889	ppb	16:05:26
2	Pb 220.353†	106.1	6.7	1.4604	µg/L	1.4604	ppb	16:05:26

2	S 181.975 Axial†	25.2	3.0	9.7481	µg/L	9.7481	ppb	16:05:26
2	Sb 206.836†	2.1	-3.2	-2.0020	µg/L	-2.0020	ppb	16:05:26
2	Se 196.026†	10.0	-0.8	-1.13	µg/L	-1.13	ppb	16:05:26
2	SiO2†	1793.4	24.3	4.4704	µg/L	4.4704	ppb	16:05:26
2	Si 251.611†	392.5	-9.2	-0.2834	µg/L	-0.2834	ppb	16:05:26
2	Sn 189.927†	4.2	6.2	2.5112	µg/L	2.5112	ppb	16:05:26
2	Ti 334.940†	1300.4	-246.6	-0.4514	µg/L	-0.4514	ppb	16:05:06
2	Tl 190.801†	-12.7	3.1	3.8177	µg/L	3.8177	ppb	16:05:26
2	U 367.007†	251.5	-56.2	-15.478	µg/L	-15.478	ppb	16:05:06
2	V 292.402†	293.2	-60.5	-0.4218	µg/L	-0.4218	ppb	16:05:06
2	Zn 213.857†	535.3	7.9	0.0993	µg/L	0.0993	ppb	16:05:26
3	Sc RADIAL	21534.4	21534.4	97.8	%			16:04:02
3	Al 396.153Radial†	-93.5	-4.4	-7.0733	µg/L	-7.0733	ppb	16:04:02
3	Ca 317.933Radial†	89.1	8.9	6.0325	µg/L	6.0325	ppb	16:04:22
3	Fe 238.204 Radial†	31.6	4.1	14.083	µg/L	14.083	ppb	16:04:22
3	K 766.490 Radial†	630.5	-7.6	-9.3613	µg/L	-9.3613	ppb	16:04:02
3	Mg 279.077 IEC†	0.8	-3.5	-24.432	µg/L	-24.432	ppb	16:04:22
3	Na 589.592 Radial†	-35.4	-3.3	-2.6114	µg/L	-2.6114	ppb	16:04:02
3	Sr 421.552†	50.5	18.0	0.2054	µg/L	0.2054	ppb	16:04:02
3	Sc 361.383	1224206.6	1224206.6	97.170	%			16:05:28
3	Y 371.029	723884.2	723884.2	97.148	%			16:05:28
3	Ag 328.068†	621.1	-30.5	-0.1966	µg/L	-0.1966	ppb	16:05:30
3	As 188.979†	-5.4	-3.0	-5.8700	µg/L	-5.8700	ppb	16:05:50
3	B 249.677†	369.0	120.3	1.4071	µg/L	1.4071	ppb	16:05:50
3	Ba 233.527†	-90.7	-10.8	-0.1523	µg/L	-0.1523	ppb	16:05:50
3	Be 313.107†	-6711.7	-38.0	-0.0165	µg/L	-0.0165	ppb	16:05:30
3	Cd 226.502†	-95.3	11.4	0.1761	µg/L	0.1761	ppb	16:05:50
3	Co 228.616†	-81.2	14.9	0.4381	µg/L	0.4381	ppb	16:05:50
3	Cr 267.716†	154.2	39.0	0.7205	µg/L	0.7205	ppb	16:05:50
3	Cu 324.752†	3800.0	48.9	0.3255	µg/L	0.3255	ppb	16:05:30
3	Mn 257.610†	206.3	7.1	0.0219	µg/L	0.0219	ppb	16:05:50
3	Mo 202.031†	-5.3	3.4	0.3787	µg/L	0.3787	ppb	16:05:50
3	Ni 231.604†	-24.5	17.7	0.5270	µg/L	0.5270	ppb	16:05:50
3	P 214.914†	-77.0	-19.2	-20.389	µg/L	-20.389	ppb	16:05:50
3	Pb 220.353†	109.9	10.7	2.2924	µg/L	2.2924	ppb	16:05:50
3	S 181.975 Axial†	23.1	0.9	2.9283	µg/L	2.9283	ppb	16:05:50
3	Sb 206.836†	7.4	2.2	1.4067	µg/L	1.4067	ppb	16:05:50
3	Se 196.026†	13.4	2.7	3.71	µg/L	3.71	ppb	16:05:50
3	SiO2†	1802.7	33.9	6.2606	µg/L	6.2606	ppb	16:05:50
3	Si 251.611†	433.1	32.6	0.9559	µg/L	0.9559	ppb	16:05:50
3	Sn 189.927†	4.1	6.1	2.4736	µg/L	2.4736	ppb	16:05:50
3	Ti 334.940†	1475.7	-66.0	-0.1185	µg/L	-0.1185	ppb	16:05:30
3	Tl 190.801†	-12.3	3.6	4.3460	µg/L	4.3460	ppb	16:05:50
3	U 367.007†	275.7	-31.3	-8.6496	µg/L	-8.6496	ppb	16:05:30
3	V 292.402†	341.8	-10.6	-0.0710	µg/L	-0.0710	ppb	16:05:30
3	Zn 213.857†	534.9	7.5	0.0916	µg/L	0.0916	ppb	16:05:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1223598.7	97.121	%	0.0897				0.09%
Sc RADIAL	21611.1	98.1	%	0.31				0.32%
Y 371.029	723393.2	97.082	%	0.1129				0.12%
Ag 328.068†	-68.5	-0.4462	µg/L	0.77370	-0.4462	ppb	0.77370	173.40%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-0.8	-1.3307	µg/L	9.12052	-1.3307	ppb	9.12052	685.40%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.3	-2.5103	µg/L	3.06900	-2.5103	ppb	3.06900	122.26%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	115.9	1.3726	µg/L	0.24975	1.3726	ppb	0.24975	18.20%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	0.1	0.0014	µg/L	0.13512	0.0014	ppb	0.13512	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-3.6	-0.0016	µg/L	0.03161	-0.0016	ppb	0.03161	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.4	4.3583	µg/L	3.19347	4.3583	ppb	3.19347	73.27%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	3.1	0.0476	µg/L	0.15209	0.0476	ppb	0.15209	319.67%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	2.4	0.0718	µg/L	0.32644	0.0718	ppb	0.32644	454.48%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               14.0      0.2665 µg/L       0.41318      0.2665 ppb        0.41318 155.02%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               60.0      0.3966 µg/L       0.07010      0.3966 ppb        0.07010  17.68%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         2.9      10.021 µg/L        6.1212      10.021 ppb         6.1212  61.09%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -16.8     -20.849 µg/L       19.7090     -20.849 ppb        19.7090  94.53%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.9     -20.869 µg/L       12.9093     -20.869 ppb        12.9093  61.86%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                7.3      0.0224 µg/L       0.00934      0.0224 ppb        0.00934  41.71%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                2.5      0.2772 µg/L       0.71973      0.2772 ppb        0.71973 259.67%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         1.2      0.9639 µg/L       9.60147      0.9639 ppb        9.60147 996.08%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                4.2      0.1238 µg/L       0.35098      0.1238 ppb        0.35098 283.48%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               -10.5     -11.203 µg/L        9.5486     -11.203 ppb         9.5486  85.24%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                1.0      0.2286 µg/L       2.88422      0.2286 ppb        2.88422 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           2.9      9.3839 µg/L       6.28143      9.3839 ppb        6.28143  66.94%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -0.7     -0.4724 µg/L       1.73104     -0.4724 ppb        1.73104 366.40%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.2       0.337 µg/L        2.9314       0.337 ppb         2.9314 869.43%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     28.3      5.2067 µg/L       0.93638      5.2067 ppb        0.93638  17.98%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               18.7      0.5489 µg/L       0.72087      0.5489 ppb        0.72087 131.32%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                4.8      1.9429 µg/L       0.95190      1.9429 ppb        0.95190  48.99%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               22.0      0.2508 µg/L       0.04977      0.2508 ppb        0.04977  19.85%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -113.1     -0.2035 µg/L       0.21822     -0.2035 ppb        0.21822 107.26%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                5.2      6.3463 µg/L       3.93105      6.3463 ppb        3.93105  61.94%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -49.7     -13.676 µg/L        4.4109     -13.676 ppb         4.4109  32.25%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -13.1     -0.0946 µg/L       0.31605     -0.0946 ppb        0.31605 334.11%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                7.1      0.0883 µg/L       0.01289      0.0883 ppb        0.01289  14.59%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 14 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 16:18:14**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21646.1	21646.1	98.3	%			16:18:47
1	Al 396.153Radial†	3144.3	3290.1	5273.5	µg/L	5273.5	ppb	16:19:07
1	Ca 317.933Radial†	7273.3	7317.3	4981.0	µg/L	4981.0	ppb	16:19:07
1	Fe 238.204 Radial†	1501.2	1499.1	5100.3	µg/L	5100.3	ppb	16:19:07
1	K 766.490 Radial†	4640.1	4068.4	5044.1	µg/L	5044.1	ppb	16:18:47
1	Mg 279.077 IEC†	728.3	736.7	5216.0	µg/L	5216.0	ppb	16:19:07
1	Na 589.592 Radial†	13622.5	13892.0	10863	µg/L	10863	ppb	16:18:47
1	Sr 421.552†	42179.2	42878.1	489.34	µg/L	489.34	ppb	16:18:47
1	Sc 361.383	1281844.6	1281844.6	101.74	%			16:20:08
1	Y 371.029	742266.0	742266.0	99.615	%			16:20:08
1	Ag 328.068†	74434.4	72488.5	485.71	µg/L	485.71	ppb	16:20:11
1	As 188.979†	225.4	224.1	448.62	µg/L	448.62	ppb	16:20:31
1	B 249.677†	40202.7	39253.9	455.06	µg/L	455.06	ppb	16:20:11
1	Ba 233.527†	34335.1	33829.0	476.81	µg/L	476.81	ppb	16:20:11
1	Be 313.107†	1129232.8	1116741.0	484.02	µg/L	484.02	ppb	16:20:08
1	Cd 226.502†	30906.6	30486.2	475.59	µg/L	475.59	ppb	16:20:11
1	Co 228.616†	16533.3	16348.3	480.89	µg/L	480.89	ppb	16:20:11
1	Cr 267.716†	26566.0	25990.8	475.83	µg/L	475.83	ppb	16:20:11
1	Cu 324.752†	76744.7	71567.1	480.70	µg/L	480.70	ppb	16:20:11
1	Mn 257.610†	167809.2	164726.8	480.06	µg/L	480.06	ppb	16:20:11
1	Mo 202.031†	4191.3	4128.2	466.60	µg/L	466.60	ppb	16:20:31
1	Ni 231.604†	16297.1	16060.5	479.04	µg/L	479.04	ppb	16:20:11
1	P 214.914†	2201.1	2223.4	2343.8	µg/L	2343.8	ppb	16:20:31
1	Pb 220.353†	2311.7	2169.6	466.32	µg/L	466.32	ppb	16:20:31
1	S 181.975 Axial†	314.3	286.0	931.57	µg/L	931.57	ppb	16:20:31
1	Sb 206.836†	763.8	745.4	471.12	µg/L	471.12	ppb	16:20:31
1	Se 196.026†	368.3	350.9	479	µg/L	479	ppb	16:20:31
1	SiO2†	29970.3	27635.2	5095.5	µg/L	5095.5	ppb	16:20:11
1	Si 251.611†	83418.1	81574.8	2395.5	µg/L	2395.5	ppb	16:20:11
1	Sn 189.927†	1189.8	1171.2	476.89	µg/L	476.89	ppb	16:20:31
1	Ti 334.940†	263633.0	257528.2	479.61	µg/L	479.61	ppb	16:20:11
1	Tl 190.801†	367.6	377.5	452.95	µg/L	452.95	ppb	16:20:31
1	U 367.007†	2116.1	1764.8	454.78	µg/L	454.78	ppb	16:20:11
1	V 292.402†	69231.6	67682.3	484.67	µg/L	484.67	ppb	16:20:11
1	Zn 213.857†	38630.3	37425.0	473.85	µg/L	473.85	ppb	16:20:11
2	Sc RADIAL	21767.0	21767.0	98.8	%			16:19:09
2	Al 396.153Radial†	3144.1	3272.1	5244.4	µg/L	5244.4	ppb	16:19:29
2	Ca 317.933Radial†	7266.9	7269.9	4948.8	µg/L	4948.8	ppb	16:19:29
2	Fe 238.204 Radial†	1509.8	1499.4	5100.8	µg/L	5100.8	ppb	16:19:29
2	K 766.490 Radial†	4729.6	4132.7	5124.2	µg/L	5124.2	ppb	16:19:09
2	Mg 279.077 IEC†	715.3	719.3	5093.5	µg/L	5093.5	ppb	16:19:29
2	Na 589.592 Radial†	13671.3	13864.4	10842	µg/L	10842	ppb	16:19:09
2	Sr 421.552†	43076.6	43547.9	496.98	µg/L	496.98	ppb	16:19:09
2	Sc 361.383	1242739.0	1242739.0	98.640	%			16:20:33
2	Y 371.029	719346.7	719346.7	96.539	%			16:20:33
2	Ag 328.068†	74076.7	74427.9	498.74	µg/L	498.74	ppb	16:20:35
2	As 188.979†	234.8	240.6	481.33	µg/L	481.33	ppb	16:20:55
2	B 249.677†	40146.3	40440.2	469.42	µg/L	469.42	ppb	16:20:35
2	Ba 233.527†	34365.5	34921.8	492.20	µg/L	492.20	ppb	16:20:35
2	Be 313.107†	1096386.7	1118366.8	484.73	µg/L	484.73	ppb	16:20:33
2	Cd 226.502†	30691.9	31224.5	487.12	µg/L	487.12	ppb	16:20:35
2	Co 228.616†	16433.5	16758.4	492.97	µg/L	492.97	ppb	16:20:35
2	Cr 267.716†	26554.5	26800.7	490.67	µg/L	490.67	ppb	16:20:35
2	Cu 324.752†	76601.6	73795.5	495.63	µg/L	495.63	ppb	16:20:35
2	Mn 257.610†	167458.4	169561.1	494.16	µg/L	494.16	ppb	16:20:35
2	Mo 202.031†	4248.9	4316.3	487.83	µg/L	487.83	ppb	16:20:55
2	Ni 231.604†	16240.9	16507.6	492.38	µg/L	492.38	ppb	16:20:35
2	P 214.914†	2220.2	2310.9	2436.3	µg/L	2436.3	ppb	16:20:55
2	Pb 220.353†	2346.4	2276.3	489.26	µg/L	489.26	ppb	16:20:55

2	S 181.975 Axial†	314.5	296.0	964.28 µg/L	964.28 ppb	16:20:55
2	Sb 206.836†	771.1	776.4	490.78 µg/L	490.78 ppb	16:20:55
2	Se 196.026†	372.9	366.9	501 µg/L	501 ppb	16:20:55
2	SiO2†	30174.8	28769.4	5304.5 µg/L	5304.5 ppb	16:20:35
2	Si 251.611†	83107.9	83840.2	2461.9 µg/L	2461.9 ppb	16:20:35
2	Sn 189.927†	1193.8	1212.0	493.51 µg/L	493.51 ppb	16:20:55
2	Ti 334.940†	263028.1	265068.5	493.66 µg/L	493.66 ppb	16:20:35
2	Tl 190.801†	379.1	400.6	480.80 µg/L	480.80 ppb	16:20:55
2	U 367.007†	2013.0	1725.7	444.02 µg/L	444.02 ppb	16:20:35
2	V 292.402†	68905.7	69493.1	497.71 µg/L	497.71 ppb	16:20:35
2	Zn 213.857†	38395.4	38381.7	485.97 µg/L	485.97 ppb	16:20:35
3	Sc RADIAL	21632.5	21632.5	98.2 %		16:19:31
3	Al 396.153Radial†	3138.8	3286.5	5267.6 µg/L	5267.6 ppb	16:19:51
3	Ca 317.933Radial†	7263.8	7312.4	4977.7 µg/L	4977.7 ppb	16:19:51
3	Fe 238.204 Radial†	1502.5	1501.5	5108.2 µg/L	5108.2 ppb	16:19:51
3	K 766.490 Radial†	4614.1	4044.9	5015.3 µg/L	5015.3 ppb	16:19:31
3	Mg 279.077 IEC†	719.8	728.5	5158.3 µg/L	5158.3 ppb	16:19:51
3	Na 589.592 Radial†	13706.3	13986.0	10937 µg/L	10937 ppb	16:19:31
3	Sr 421.552†	42807.9	43545.1	496.95 µg/L	496.95 ppb	16:19:31
3	Sc 361.383	1260339.4	1260339.4	100.04 %		16:20:57
3	Y 371.029	729637.1	729637.1	97.920 %		16:20:57
3	Ag 328.068†	74498.1	73800.5	494.52 µg/L	494.52 ppb	16:20:59
3	As 188.979†	240.4	242.9	485.74 µg/L	485.74 ppb	16:21:19
3	B 249.677†	40365.6	40091.0	465.19 µg/L	465.19 ppb	16:20:59
3	Ba 233.527†	34523.4	34593.1	487.57 µg/L	487.57 ppb	16:20:59
3	Be 313.107†	1114114.8	1120566.4	485.68 µg/L	485.68 ppb	16:20:57
3	Cd 226.502†	30989.9	31087.8	484.99 µg/L	484.99 ppb	16:20:59
3	Co 228.616†	16419.1	16511.3	485.70 µg/L	485.70 ppb	16:20:59
3	Cr 267.716†	26547.9	26418.2	483.66 µg/L	483.66 ppb	16:20:59
3	Cu 324.752†	77264.1	73373.3	492.80 µg/L	492.80 ppb	16:20:59
3	Mn 257.610†	168123.0	167854.7	489.18 µg/L	489.18 ppb	16:20:59
3	Mo 202.031†	4273.6	4280.9	483.84 µg/L	483.84 ppb	16:21:19
3	Ni 231.604†	16399.5	16436.2	490.25 µg/L	490.25 ppb	16:20:59
3	P 214.914†	2234.7	2293.9	2418.3 µg/L	2418.3 ppb	16:21:19
3	Pb 220.353†	2367.7	2264.4	486.70 µg/L	486.70 ppb	16:21:19
3	S 181.975 Axial†	309.8	286.7	934.03 µg/L	934.03 ppb	16:21:19
3	Sb 206.836†	781.9	776.3	490.73 µg/L	490.73 ppb	16:21:19
3	Se 196.026†	366.2	354.9	485 µg/L	485 ppb	16:21:19
3	SiO2†	30048.9	28216.4	5202.6 µg/L	5202.6 ppb	16:20:59
3	Si 251.611†	83591.6	83147.2	2441.5 µg/L	2441.5 ppb	16:20:59
3	Sn 189.927†	1195.3	1196.7	487.28 µg/L	487.28 ppb	16:21:19
3	Ti 334.940†	264443.2	262759.4	489.36 µg/L	489.36 ppb	16:20:59
3	Tl 190.801†	387.5	403.6	484.51 µg/L	484.51 ppb	16:21:19
3	U 367.007†	2051.2	1735.4	446.66 µg/L	446.66 ppb	16:20:59
3	V 292.402†	69075.3	68687.1	491.97 µg/L	491.97 ppb	16:20:59
3	Zn 213.857†	38594.8	38037.4	481.59 µg/L	481.59 ppb	16:20:59

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1261641.0	100.14	%	1.555				1.55%
Sc RADIAL	21681.9	98.5	%	0.34				0.34%
Y 371.029	730416.6	98.025	%	1.5406				1.57%
Ag 328.068†	73572.3	492.99	µg/L	6.648	492.99	ppb	6.648	1.35%
QC value within limits for Ag 328.068 Recovery = 98.60%								
Al 396.153Radial†	3282.9	5261.8	µg/L	15.39	5261.8	ppb	15.39	0.29%
QC value within limits for Al 396.153Radial Recovery = 105.24%								
As 188.979†	235.8	471.90	µg/L	20.279	471.90	ppb	20.279	4.30%
QC value within limits for As 188.979 Recovery = 94.38%								
B 249.677†	39928.4	463.22	µg/L	7.375	463.22	ppb	7.375	1.59%
QC value within limits for B 249.677 Recovery = 92.64%								
Ba 233.527†	34448.0	485.52	µg/L	7.898	485.52	ppb	7.898	1.63%
QC value within limits for Ba 233.527 Recovery = 97.10%								
Be 313.107†	1118558.1	484.81	µg/L	0.832	484.81	ppb	0.832	0.17%
QC value within limits for Be 313.107 Recovery = 96.96%								
Ca 317.933Radial†	7299.8	4969.2	µg/L	17.75	4969.2	ppb	17.75	0.36%
QC value within limits for Ca 317.933Radial Recovery = 99.38%								
Cd 226.502†	30932.8	482.56	µg/L	6.136	482.56	ppb	6.136	1.27%
QC value within limits for Cd 226.502 Recovery = 96.51%								
Co 228.616†	16539.3	486.52	µg/L	6.078	486.52	ppb	6.078	1.25%

```
   QC value within limits for Co 228.616  Recovery = 97.30%
Cr 267.716†            26403.2      483.39 µg/L         7.425      483.39 ppb          7.425   1.54%
   QC value within limits for Cr 267.716  Recovery = 96.68%
Cu 324.752†            72911.9      489.71 µg/L         7.929      489.71 ppb          7.929   1.62%
   QC value within limits for Cu 324.752  Recovery = 97.94%
Fe 238.204 Radial†      1500.0      5103.1 µg/L          4.39      5103.1 ppb           4.39   0.09%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.06%
K 766.490 Radial†       4082.0      5061.2 µg/L         56.42      5061.2 ppb          56.42   1.11%
   QC value within limits for K 766.490 Radial  Recovery = 101.22%
Mg 279.077 IEC†          728.2      5156.0 µg/L         61.30      5156.0 ppb          61.30   1.19%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.12%
Mn 257.610†           167380.9      487.80 µg/L         7.149      487.80 ppb          7.149   1.47%
   QC value within limits for Mn 257.610  Recovery = 97.56%
Mo 202.031†             4241.8      479.42 µg/L        11.286      479.42 ppb         11.286   2.35%
   QC value within limits for Mo 202.031  Recovery = 95.88%
Na 589.592 Radial†     13914.1       10881 µg/L          49.8       10881 ppb           49.8   0.46%
   QC value within limits for Na 589.592 Radial  Recovery = 108.81%
Ni 231.604†            16334.8      487.22 µg/L         7.165      487.22 ppb          7.165   1.47%
   QC value within limits for Ni 231.604  Recovery = 97.44%
P 214.914†              2276.1      2399.5 µg/L         49.02      2399.5 ppb          49.02   2.04%
   QC value within limits for P 214.914  Recovery = 95.98%
Pb 220.353†             2236.8      480.76 µg/L        12.566      480.76 ppb         12.566   2.61%
   QC value within limits for Pb 220.353  Recovery = 96.15%
S 181.975 Axial†         289.5      943.29 µg/L        18.219      943.29 ppb         18.219   1.93%
   QC value within limits for S 181.975 Axial  Recovery = 94.33%
Sb 206.836†              766.0      484.21 µg/L        11.337      484.21 ppb         11.337   2.34%
   QC value within limits for Sb 206.836  Recovery = 96.84%
Se 196.026†              357.6         488 µg/L          11.4         488 ppb           11.4   2.33%
   QC value within limits for Se 196.026  Recovery = 97.67%
SiO2†                  28207.0      5200.9 µg/L        104.53      5200.9 ppb         104.53   2.01%
   QC value within limits for SiO2  Recovery = 97.26%
Si 251.611†            82854.0      2432.9 µg/L         34.02      2432.9 ppb          34.02   1.40%
   QC value within limits for Si 251.611  Recovery = 97.32%
Sn 189.927†             1193.3      485.89 µg/L         8.393      485.89 ppb          8.393   1.73%
   QC value within limits for Sn 189.927  Recovery = 97.18%
Sr 421.552†            43323.7      494.42 µg/L         4.404      494.42 ppb          4.404   0.89%
   QC value within limits for Sr 421.552  Recovery = 98.88%
Ti 334.940†           261785.4      487.54 µg/L         7.198      487.54 ppb          7.198   1.48%
   QC value within limits for Ti 334.940  Recovery = 97.51%
Tl 190.801†              393.9      472.75 µg/L        17.251      472.75 ppb         17.251   3.65%
   QC value within limits for Tl 190.801  Recovery = 94.55%
U 367.007†              1742.0      448.49 µg/L         5.611      448.49 ppb          5.611   1.25%
   QC value less than the lower limit for U 367.007  Recovery = 89.70%
V 292.402†             68620.8      491.45 µg/L         6.537      491.45 ppb          6.537   1.33%
   QC value within limits for V 292.402  Recovery = 98.29%
Zn 213.857†            37948.0      480.47 µg/L         6.138      480.47 ppb          6.138   1.28%
   QC value within limits for Zn 213.857  Recovery = 96.09%
QC Failed.  Continue with analysis.
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Sequence No.: 15 **Autosampler Location: 109**
Sample ID: PQL **Date Collected: 11/6/2013 16:21:28**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21895.4	21895.4	99.4	%			16:22:18
1	Al 396.153Radial†	43.9	135.3	216.92	µg/L	216.92	ppb	16:22:18
1	Ca 317.933Radial†	373.2	293.1	199.52	µg/L	199.52	ppb	16:22:38
1	Fe 238.204 Radial†	56.6	28.8	97.973	µg/L	97.973	ppb	16:22:38
1	K 766.490 Radial†	777.9	130.1	161.13	µg/L	161.13	ppb	16:22:18
1	Mg 279.077 IEC†	46.2	42.2	298.98	µg/L	298.98	ppb	16:22:38
1	Na 589.592 Radial†	385.1	420.2	328.58	µg/L	328.58	ppb	16:22:18
1	Sr 421.552†	478.5	447.6	5.1074	µg/L	5.1074	ppb	16:22:18
1	Sc 361.383	1237740.0	1237740.0	98.244	%			16:24:16
1	Y 371.029	731722.0	731722.0	98.200	%			16:24:16
1	Ag 328.068†	1303.2	656.8	4.3594	µg/L	4.3594	ppb	16:24:18
1	As 188.979†	11.5	14.2	28.075	µg/L	28.075	ppb	16:24:38
1	B 249.677†	4137.4	3951.9	47.365	µg/L	47.365	ppb	16:24:18
1	Ba 233.527†	265.2	352.5	4.9670	µg/L	4.9670	ppb	16:24:38
1	Be 313.107†	4556.5	11507.1	4.9874	µg/L	4.9874	ppb	16:24:18
1	Cd 226.502†	227.0	340.5	5.3069	µg/L	5.3069	ppb	16:24:38
1	Co 228.616†	76.1	175.8	5.1785	µg/L	5.1785	ppb	16:24:38
1	Cr 267.716†	375.6	262.6	4.7755	µg/L	4.7755	ppb	16:24:38
1	Cu 324.752†	5262.1	1494.3	10.052	µg/L	10.052	ppb	16:24:18
1	Mn 257.610†	3587.4	3446.3	10.036	µg/L	10.036	ppb	16:24:38
1	Mo 202.031†	74.6	84.8	9.5874	µg/L	9.5874	ppb	16:24:38
1	Ni 231.604†	130.4	175.6	5.2360	µg/L	5.2360	ppb	16:24:38
1	P 214.914†	81.6	143.1	151.50	µg/L	151.50	ppb	16:24:38
1	Pb 220.353†	138.0	38.0	8.1335	µg/L	8.1335	ppb	16:24:38
1	S 181.975 Axial†	51.1	29.1	94.985	µg/L	94.985	ppb	16:24:38
1	Sb 206.836†	15.5	10.5	6.6737	µg/L	6.6737	ppb	16:24:38
1	Se 196.026†	36.4	25.9	35.3	µg/L	35.3	ppb	16:24:38
1	SiO2†	2942.7	1174.0	216.17	µg/L	216.17	ppb	16:24:18
1	Si 251.611†	3733.7	3387.3	99.587	µg/L	99.587	ppb	16:24:18
1	Sn 189.927†	29.5	31.9	12.980	µg/L	12.980	ppb	16:24:38
1	Ti 334.940†	3786.7	2269.7	4.2095	µg/L	4.2095	ppb	16:24:18
1	Tl 190.801†	5.1	21.5	25.966	µg/L	25.966	ppb	16:24:38
1	U 367.007†	492.9	186.7	50.637	µg/L	50.637	ppb	16:24:18
1	V 292.402†	1027.3	683.4	4.9876	µg/L	4.9876	ppb	16:24:18
1	Zn 213.857†	1307.9	788.3	10.003	µg/L	10.003	ppb	16:24:38
2	Sc RADIAL	21834.9	21834.9	99.2	%			16:22:58
2	Al 396.153Radial†	43.1	134.7	215.94	µg/L	215.94	ppb	16:22:58
2	Ca 317.933Radial†	383.6	304.6	207.33	µg/L	207.33	ppb	16:23:18
2	Fe 238.204 Radial†	58.4	30.8	104.95	µg/L	104.95	ppb	16:23:18
2	K 766.490 Radial†	735.6	89.6	111.00	µg/L	111.00	ppb	16:22:58
2	Mg 279.077 IEC†	48.2	44.3	313.94	µg/L	313.94	ppb	16:23:18
2	Na 589.592 Radial†	400.8	437.2	341.86	µg/L	341.86	ppb	16:22:58
2	Sr 421.552†	466.0	436.3	4.9782	µg/L	4.9782	ppb	16:22:58
2	Sc 361.383	1242562.7	1242562.7	98.626	%			16:24:40
2	Y 371.029	733062.4	733062.4	98.380	%			16:24:40
2	Ag 328.068†	1323.0	671.8	4.4610	µg/L	4.4610	ppb	16:24:42
2	As 188.979†	11.9	14.6	28.809	µg/L	28.809	ppb	16:25:02
2	B 249.677†	4230.6	4030.1	48.305	µg/L	48.305	ppb	16:24:42
2	Ba 233.527†	268.7	355.1	5.0022	µg/L	5.0022	ppb	16:25:02
2	Be 313.107†	4562.7	11495.3	4.9824	µg/L	4.9824	ppb	16:24:42
2	Cd 226.502†	220.0	332.5	5.1812	µg/L	5.1812	ppb	16:25:02
2	Co 228.616†	82.9	182.4	5.3740	µg/L	5.3740	ppb	16:25:02
2	Cr 267.716†	406.4	292.3	5.3205	µg/L	5.3205	ppb	16:25:02
2	Cu 324.752†	5204.9	1415.6	9.5245	µg/L	9.5245	ppb	16:24:42
2	Mn 257.610†	3623.5	3468.7	10.101	µg/L	10.101	ppb	16:25:02
2	Mo 202.031†	82.2	92.2	10.427	µg/L	10.427	ppb	16:25:02
2	Ni 231.604†	124.4	169.0	5.0393	µg/L	5.0393	ppb	16:25:02
2	P 214.914†	70.3	131.4	139.05	µg/L	139.05	ppb	16:25:02
2	Pb 220.353†	133.1	32.5	6.9658	µg/L	6.9658	ppb	16:25:02

2	S 181.975 Axial†	58.5	36.4	118.96 µg/L	118.96 ppb	16:25:02
2	Sb 206.836†	24.0	19.0	12.070 µg/L	12.070 ppb	16:25:02
2	Se 196.026†	29.8	19.1	26.1 µg/L	26.1 ppb	16:25:02
2	SiO2†	2909.1	1128.4	207.78 µg/L	207.78 ppb	16:24:42
2	Si 251.611†	3665.4	3303.4	97.106 µg/L	97.106 ppb	16:24:42
2	Sn 189.927†	29.9	32.1	13.097 µg/L	13.097 ppb	16:25:02
2	Ti 334.940†	3880.7	2350.0	4.3606 µg/L	4.3606 ppb	16:24:42
2	Tl 190.801†	1.8	18.1	21.880 µg/L	21.880 ppb	16:25:02
2	U 367.007†	486.6	178.3	48.289 µg/L	48.289 ppb	16:24:42
2	V 292.402†	977.9	629.2	4.6164 µg/L	4.6164 ppb	16:24:42
2	Zn 213.857†	1316.9	792.3	10.055 µg/L	10.055 ppb	16:25:02
3	Sc RADIAL	21753.7	21753.7	98.8 %		16:23:38
3	Al 396.153Radial†	37.6	129.3	207.28 µg/L	207.28 ppb	16:23:38
3	Ca 317.933Radial†	377.5	299.9	204.09 µg/L	204.09 ppb	16:23:58
3	Fe 238.204 Radial†	58.4	31.0	105.62 µg/L	105.62 ppb	16:23:58
3	K 766.490 Radial†	733.0	89.7	111.09 µg/L	111.09 ppb	16:23:38
3	Mg 279.077 IEC†	53.1	49.5	350.42 µg/L	350.42 ppb	16:23:58
3	Na 589.592 Radial†	379.2	416.8	325.94 µg/L	325.94 ppb	16:23:38
3	Sr 421.552†	480.4	452.7	5.1651 µg/L	5.1651 ppb	16:23:38
3	Sc 361.383	1232533.0	1232533.0	97.830 %		16:25:04
3	Y 371.029	728680.6	728680.6	97.792 %		16:25:04
3	Ag 328.068†	1251.6	609.7	4.0524 µg/L	4.0524 ppb	16:25:06
3	As 188.979†	14.7	17.6	34.741 µg/L	34.741 ppb	16:25:26
3	B 249.677†	4021.2	3851.0	46.137 µg/L	46.137 ppb	16:25:06
3	Ba 233.527†	249.3	337.4	4.7530 µg/L	4.7530 ppb	16:25:26
3	Be 313.107†	4424.3	11391.5	4.9374 µg/L	4.9374 ppb	16:25:06
3	Cd 226.502†	224.9	339.4	5.2879 µg/L	5.2879 ppb	16:25:26
3	Co 228.616†	83.6	183.9	5.4134 µg/L	5.4134 ppb	16:25:26
3	Cr 267.716†	391.0	279.9	5.1001 µg/L	5.1001 ppb	16:25:26
3	Cu 324.752†	5158.5	1411.1	9.4907 µg/L	9.4907 ppb	16:25:06
3	Mn 257.610†	3480.8	3352.7	9.7617 µg/L	9.7617 ppb	16:25:26
3	Mo 202.031†	63.6	73.9	8.3578 µg/L	8.3578 ppb	16:25:26
3	Ni 231.604†	130.9	176.7	5.2693 µg/L	5.2693 ppb	16:25:26
3	P 214.914†	54.1	115.3	122.04 µg/L	122.04 ppb	16:25:26
3	Pb 220.353†	145.8	46.6	9.9769 µg/L	9.9769 ppb	16:25:26
3	S 181.975 Axial†	43.3	21.3	69.568 µg/L	69.568 ppb	16:25:26
3	Sb 206.836†	18.3	13.4	8.5002 µg/L	8.5002 ppb	16:25:26
3	Se 196.026†	34.4	24.0	32.8 µg/L	32.8 ppb	16:25:26
3	SiO2†	2878.9	1121.5	206.51 µg/L	206.51 ppb	16:25:06
3	Si 251.611†	3567.4	3233.3	95.073 µg/L	95.073 ppb	16:25:06
3	Sn 189.927†	23.5	25.9	10.536 µg/L	10.536 ppb	16:25:26
3	Ti 334.940†	3947.9	2450.7	4.5532 µg/L	4.5532 ppb	16:25:06
3	Tl 190.801†	1.2	17.5	21.189 µg/L	21.189 ppb	16:25:26
3	U 367.007†	445.2	140.1	37.800 µg/L	37.800 ppb	16:25:06
3	V 292.402†	896.6	554.2	4.0555 µg/L	4.0555 ppb	16:25:06
3	Zn 213.857†	1277.7	763.1	9.6803 µg/L	9.6803 ppb	16:25:26

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1237611.9	98.234	%	0.3981				0.41%
Sc RADIAL	21828.0	99.1	%	0.32				0.33%
Y 371.029	731155.0	98.124	%	0.3013				0.31%
Ag 328.068†	646.1	4.2909	µg/L	0.21274	4.2909	ppb	0.21274	4.96%
QC value within limits for Ag 328.068 Recovery = 85.82%								
Al 396.153Radial†	133.1	213.38	µg/L	5.308	213.38	ppb	5.308	2.49%
QC value within limits for Al 396.153Radial Recovery = 106.69%								
As 188.979†	15.4	30.542	µg/L	3.6548	30.542	ppb	3.6548	11.97%
QC value within limits for As 188.979 Recovery = 101.81%								
B 249.677†	3944.3	47.269	µg/L	1.0873	47.269	ppb	1.0873	2.30%
QC value within limits for B 249.677 Recovery = 94.54%								
Ba 233.527†	348.3	4.9074	µg/L	0.13483	4.9074	ppb	0.13483	2.75%
QC value within limits for Ba 233.527 Recovery = 98.15%								
Be 313.107†	11464.6	4.9690	µg/L	0.02757	4.9690	ppb	0.02757	0.55%
QC value within limits for Be 313.107 Recovery = 99.38%								
Ca 317.933Radial†	299.2	203.65	µg/L	3.924	203.65	ppb	3.924	1.93%
QC value within limits for Ca 317.933Radial Recovery = 101.83%								
Cd 226.502†	337.5	5.2587	µg/L	0.06775	5.2587	ppb	0.06775	1.29%
QC value within limits for Cd 226.502 Recovery = 105.17%								
Co 228.616†	180.7	5.3220	µg/L	0.12583	5.3220	ppb	0.12583	2.36%

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   QC value within limits for Co 228.616  Recovery = 106.44%
Cr 267.716†              278.3      5.0654 µg/L       0.27416      5.0654 ppb        0.27416   5.41%
   QC value within limits for Cr 267.716  Recovery = 101.31%
Cu 324.752†             1440.3      9.6892 µg/L       0.31496      9.6892 ppb        0.31496   3.25%
   QC value within limits for Cu 324.752  Recovery = 96.89%
Fe 238.204 Radial†        30.2      102.85 µg/L         4.234      102.85 ppb          4.234   4.12%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.85%
K 766.490 Radial†        103.1      127.74 µg/L        28.915      127.74 ppb         28.915  22.64%
   QC value within limits for K 766.490 Radial  Recovery = 85.16%
Mg 279.077 IEC†           45.4      321.11 µg/L        26.463      321.11 ppb         26.463   8.24%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.04%
Mn 257.610†             3422.5      9.9663 µg/L       0.18015      9.9663 ppb        0.18015   1.81%
   QC value within limits for Mn 257.610  Recovery = 99.66%
Mo 202.031†               83.6      9.4574 µg/L       1.04075      9.4574 ppb        1.04075  11.00%
   QC value within limits for Mo 202.031  Recovery = 94.57%
Na 589.592 Radial†       424.7      332.13 µg/L         8.531      332.13 ppb          8.531   2.57%
   QC value within limits for Na 589.592 Radial  Recovery = 110.71%
Ni 231.604†              173.7      5.1816 µg/L       0.12428      5.1816 ppb        0.12428   2.40%
   QC value within limits for Ni 231.604  Recovery = 103.63%
P 214.914†               129.9      137.53 µg/L        14.791      137.53 ppb         14.791  10.75%
   QC value within limits for P 214.914  Recovery = 91.69%
Pb 220.353†               39.0      8.3588 µg/L       1.51812      8.3588 ppb        1.51812  18.16%
   QC value within limits for Pb 220.353  Recovery = 83.59%
S 181.975 Axial†          28.9      94.503 µg/L       24.6987      94.503 ppb        24.6987  26.14%
   QC value within limits for S 181.975 Axial  Recovery = 94.50%
Sb 206.836†               14.3      9.0815 µg/L       2.74494      9.0815 ppb        2.74494  30.23%
   QC value within limits for Sb 206.836  Recovery = 90.81%
Se 196.026†               23.0        31.4 µg/L          4.76        31.4 ppb           4.76  15.17%
   QC value within limits for Se 196.026  Recovery = 104.69%
SiO2†                    1141.3      210.15 µg/L         5.249      210.15 ppb          5.249   2.50%
   QC value within limits for SiO2  Recovery = 98.66%
Si 251.611†              3308.0      97.255 µg/L        2.2606      97.255 ppb         2.2606   2.32%
   QC value within limits for Si 251.611  Recovery = 97.26%
Sn 189.927†               30.0      12.204 µg/L        1.4461      12.204 ppb         1.4461  11.85%
   QC value within limits for Sn 189.927  Recovery = 122.04%
Sr 421.552†              445.6      5.0836 µg/L       0.09570      5.0836 ppb        0.09570   1.88%
   QC value within limits for Sr 421.552  Recovery = 101.67%
Ti 334.940†              2356.8      4.3744 µg/L       0.17229      4.3744 ppb        0.17229   3.94%
   QC value within limits for Ti 334.940  Recovery = 87.49%
Tl 190.801†               19.0      23.012 µg/L        2.5816      23.012 ppb         2.5816  11.22%
   QC value within limits for Tl 190.801  Recovery = 115.06%
U 367.007†               168.4      45.575 µg/L        6.8349      45.575 ppb         6.8349  15.00%
   QC value within limits for U 367.007  Recovery = 91.15%
V 292.402†               622.3      4.5532 µg/L       0.46926      4.5532 ppb        0.46926  10.31%
   QC value within limits for V 292.402  Recovery = 91.06%
Zn 213.857†              781.2      9.9127 µg/L       0.20290      9.9127 ppb        0.20290   2.05%
   QC value within limits for Zn 213.857  Recovery = 99.13%
All analyte(s) passed QC.
```

Sequence No.: 16 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 16:25:34**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21830.8	21830.8	99.1	%			16:26:25
1	Al 396.153Radial†	-72.9	17.6	28.184	µg/L	28.184	ppb	16:26:25
1	Ca 317.933Radial†	80.4	-1.2	-0.8101	µg/L	-0.8101	ppb	16:26:45
1	Fe 238.204 Radial†	27.6	-0.3	-1.0689	µg/L	-1.0689	ppb	16:26:45
1	K 766.490 Radial†	649.6	3.0	3.6645	µg/L	3.6645	ppb	16:26:25
1	Mg 279.077 IEC†	2.6	-1.6	-11.442	µg/L	-11.442	ppb	16:26:45
1	Na 589.592 Radial†	-25.1	7.6	5.9268	µg/L	5.9268	ppb	16:26:25
1	Sr 421.552†	63.2	30.1	0.3432	µg/L	0.3432	ppb	16:26:25
1	Sc 361.383	1180765.1	1180765.1	93.721	%			16:28:22
1	Y 371.029	697792.9	697792.9	93.646	%			16:28:22
1	Ag 328.068†	654.9	29.1	0.1845	µg/L	0.1845	ppb	16:28:24
1	As 188.979†	-3.1	-0.8	-1.5533	µg/L	-1.5533	ppb	16:28:44
1	B 249.677†	324.1	86.4	1.0459	µg/L	1.0459	ppb	16:28:44
1	Ba 233.527†	-79.4	-2.2	-0.0328	µg/L	-0.0328	ppb	16:28:44
1	Be 313.107†	-6567.4	-138.2	-0.0599	µg/L	-0.0599	ppb	16:28:24
1	Cd 226.502†	-91.4	12.0	0.1878	µg/L	0.1878	ppb	16:28:44
1	Co 228.616†	-100.8	-9.2	-0.2696	µg/L	-0.2696	ppb	16:28:44
1	Cr 267.716†	120.3	8.6	0.1527	µg/L	0.1527	ppb	16:28:44
1	Cu 324.752†	3755.6	145.3	0.9775	µg/L	0.9775	ppb	16:28:24
1	Mn 257.610†	207.2	15.8	0.0464	µg/L	0.0464	ppb	16:28:44
1	Mo 202.031†	-9.0	-0.7	-0.0803	µg/L	-0.0803	ppb	16:28:44
1	Ni 231.604†	-30.4	10.4	0.3094	µg/L	0.3094	ppb	16:28:44
1	P 214.914†	-68.6	-13.2	-13.958	µg/L	-13.958	ppb	16:28:44
1	Pb 220.353†	94.8	-1.3	-0.2936	µg/L	-0.2936	ppb	16:28:44
1	S 181.975 Axial†	22.3	0.9	2.7865	µg/L	2.7865	ppb	16:28:44
1	Sb 206.836†	2.8	-2.3	-1.4797	µg/L	-1.4797	ppb	16:28:44
1	Se 196.026†	15.5	5.4	7.41	µg/L	7.41	ppb	16:28:44
1	SiO2†	1722.0	16.1	2.9610	µg/L	2.9610	ppb	16:28:44
1	Si 251.611†	398.6	12.1	0.3584	µg/L	0.3584	ppb	16:28:44
1	Sn 189.927†	-1.4	0.3	0.1232	µg/L	0.1232	ppb	16:28:44
1	Ti 334.940†	1253.7	-247.1	-0.4646	µg/L	-0.4646	ppb	16:28:24
1	Tl 190.801†	-15.4	-0.2	-0.2509	µg/L	-0.2509	ppb	16:28:44
1	U 367.007†	323.9	30.6	8.4002	µg/L	8.4002	ppb	16:28:24
1	V 292.402†	243.1	-102.9	-0.7213	µg/L	-0.7213	ppb	16:28:24
1	Zn 213.857†	502.4	-6.9	-0.0908	µg/L	-0.0908	ppb	16:28:44
2	Sc RADIAL	21808.0	21808.0	99.0	%			16:27:05
2	Al 396.153Radial†	-87.2	3.2	5.0636	µg/L	5.0636	ppb	16:27:05
2	Ca 317.933Radial†	79.8	-1.6	-1.1104	µg/L	-1.1104	ppb	16:27:25
2	Fe 238.204 Radial†	27.5	-0.4	-1.3951	µg/L	-1.3951	ppb	16:27:25
2	K 766.490 Radial†	600.8	-45.6	-56.503	µg/L	-56.503	ppb	16:27:05
2	Mg 279.077 IEC†	1.2	-3.1	-21.771	µg/L	-21.771	ppb	16:27:25
2	Na 589.592 Radial†	-51.5	-19.1	-14.959	µg/L	-14.959	ppb	16:27:05
2	Sr 421.552†	56.3	23.2	0.2644	µg/L	0.2644	ppb	16:27:05
2	Sc 361.383	1234953.4	1234953.4	98.023	%			16:28:47
2	Y 371.029	729663.6	729663.6	97.923	%			16:28:47
2	Ag 328.068†	533.2	-125.8	-0.8343	µg/L	-0.8343	ppb	16:28:49
2	As 188.979†	-9.7	-7.3	-14.469	µg/L	-14.469	ppb	16:29:09
2	B 249.677†	334.4	81.7	1.0163	µg/L	1.0163	ppb	16:29:09
2	Ba 233.527†	-74.9	6.2	0.0840	µg/L	0.0840	ppb	16:29:09
2	Be 313.107†	-6935.5	-206.3	-0.0894	µg/L	-0.0894	ppb	16:28:49
2	Cd 226.502†	-97.6	10.0	0.1555	µg/L	0.1555	ppb	16:29:09
2	Co 228.616†	-90.3	6.3	0.1850	µg/L	0.1850	ppb	16:29:09
2	Cr 267.716†	153.8	37.2	0.6881	µg/L	0.6881	ppb	16:29:09
2	Cu 324.752†	3826.6	41.9	0.2762	µg/L	0.2762	ppb	16:28:49
2	Mn 257.610†	182.6	-18.9	-0.0544	µg/L	-0.0544	ppb	16:29:09
2	Mo 202.031†	-17.1	-8.6	-0.9713	µg/L	-0.9713	ppb	16:29:09
2	Ni 231.604†	-45.5	-3.6	-0.1061	µg/L	-0.1061	ppb	16:29:09
2	P 214.914†	-72.6	-14.1	-14.905	µg/L	-14.905	ppb	16:29:09
2	Pb 220.353†	97.2	-3.3	-0.6923	µg/L	-0.6923	ppb	16:29:09

2	S 181.975 Axial†	24.4	2.0	6.4407	µg/L	6.4407	ppb	16:29:09
2	Sb 206.836†	6.6	1.4	0.8698	µg/L	0.8698	ppb	16:29:09
2	Se 196.026†	10.8	-0.1	-0.081	µg/L	-0.081	ppb	16:29:09
2	SiO2†	1798.6	13.6	2.5235	µg/L	2.5235	ppb	16:29:09
2	Si 251.611†	386.3	-19.1	-0.5489	µg/L	-0.5489	ppb	16:29:09
2	Sn 189.927†	-2.0	-0.2	-0.0749	µg/L	-0.0749	ppb	16:29:09
2	Ti 334.940†	1397.3	-159.3	-0.2915	µg/L	-0.2915	ppb	16:28:49
2	Tl 190.801†	-12.4	3.6	4.3954	µg/L	4.3954	ppb	16:29:09
2	U 367.007†	270.3	-39.3	-10.768	µg/L	-10.768	ppb	16:28:49
2	V 292.402†	230.1	-127.5	-0.9159	µg/L	-0.9159	ppb	16:28:49
2	Zn 213.857†	538.6	6.5	0.0836	µg/L	0.0836	ppb	16:29:09
3	Sc RADIAL	21560.7	21560.7	97.9	%			16:27:45
3	Al 396.153Radial†	-85.8	3.5	5.6023	µg/L	5.6023	ppb	16:27:45
3	Ca 317.933Radial†	84.6	4.2	2.8529	µg/L	2.8529	ppb	16:28:05
3	Fe 238.204 Radial†	24.4	-3.2	-10.983	µg/L	-10.983	ppb	16:28:05
3	K 766.490 Radial†	621.9	-17.1	-21.140	µg/L	-21.140	ppb	16:27:45
3	Mg 279.077 IEC†	4.0	-0.2	-1.5456	µg/L	-1.5456	ppb	16:28:05
3	Na 589.592 Radial†	-34.7	-2.5	-1.9781	µg/L	-1.9781	ppb	16:27:45
3	Sr 421.552†	50.1	17.5	0.1998	µg/L	0.1998	ppb	16:27:45
3	Sc 361.383	1246342.5	1246342.5	98.927	%			16:29:11
3	Y 371.029	736412.1	736412.1	98.829	%			16:29:11
3	Ag 328.068†	513.0	-151.1	-1.0024	µg/L	-1.0024	ppb	16:29:13
3	As 188.979†	-4.3	-1.8	-3.6341	µg/L	-3.6341	ppb	16:29:33
3	B 249.677†	329.8	74.0	0.9443	µg/L	0.9443	ppb	16:29:33
3	Ba 233.527†	-76.2	5.6	0.0786	µg/L	0.0786	ppb	16:29:33
3	Be 313.107†	-6903.8	-109.6	-0.0475	µg/L	-0.0475	ppb	16:29:13
3	Cd 226.502†	-84.2	24.4	0.3829	µg/L	0.3829	ppb	16:29:33
3	Co 228.616†	-95.7	1.6	0.0480	µg/L	0.0480	ppb	16:29:33
3	Cr 267.716†	116.7	-1.7	-0.0261	µg/L	-0.0261	ppb	16:29:33
3	Cu 324.752†	3775.6	-45.3	-0.3088	µg/L	-0.3088	ppb	16:29:13
3	Mn 257.610†	199.9	-3.2	-0.0096	µg/L	-0.0096	ppb	16:29:33
3	Mo 202.031†	-10.9	-2.2	-0.2468	µg/L	-0.2468	ppb	16:29:33
3	Ni 231.604†	-35.0	7.5	0.2226	µg/L	0.2226	ppb	16:29:33
3	P 214.914†	-74.7	-15.5	-16.428	µg/L	-16.428	ppb	16:29:33
3	Pb 220.353†	96.8	-4.6	-0.9682	µg/L	-0.9682	ppb	16:29:33
3	S 181.975 Axial†	24.6	1.9	6.2085	µg/L	6.2085	ppb	16:29:33
3	Sb 206.836†	3.6	-1.7	-1.0770	µg/L	-1.0770	ppb	16:29:33
3	Se 196.026†	12.1	1.1	1.49	µg/L	1.49	ppb	16:29:33
3	SiO2†	1800.7	-1.0	-0.1820	µg/L	-0.1820	ppb	16:29:33
3	Si 251.611†	399.6	-9.2	-0.2681	µg/L	-0.2681	ppb	16:29:33
3	Sn 189.927†	0.4	2.3	0.9297	µg/L	0.9297	ppb	16:29:33
3	Ti 334.940†	1438.3	-130.8	-0.2390	µg/L	-0.2390	ppb	16:29:13
3	Tl 190.801†	-17.6	-1.5	-1.8389	µg/L	-1.8389	ppb	16:29:33
3	U 367.007†	279.9	-32.1	-8.7509	µg/L	-8.7509	ppb	16:29:13
3	V 292.402†	354.1	-4.3	-0.0403	µg/L	-0.0403	ppb	16:29:13
3	Zn 213.857†	535.7	-1.4	-0.0184	µg/L	-0.0184	ppb	16:29:33

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1220687.0	96.890	%	2.7812				2.87%
Sc RADIAL	21733.2	98.7	%	0.68				0.69%
Y 371.029	721289.5	96.800	%	2.7682				2.86%
Ag 328.068†	-82.6	-0.5507	µg/L	0.64229	-0.5507	ppb	0.64229	116.62%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	8.1	12.950	µg/L	13.1960	12.950	ppb	13.1960	101.90%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.3	-6.5521	µg/L	6.93457	-6.5521	ppb	6.93457	105.84%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	80.7	1.0022	µg/L	0.05227	1.0022	ppb	0.05227	5.22%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	3.2	0.0433	µg/L	0.06593	0.0433	ppb	0.06593	152.21%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-151.4	-0.0656	µg/L	0.02151	-0.0656	ppb	0.02151	32.79%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	0.5	0.3108	µg/L	2.20664	0.3108	ppb	2.20664	710.02%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	15.5	0.2421	µg/L	0.12303	0.2421	ppb	0.12303	50.82%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-0.4	-0.0122	µg/L	0.23319	-0.0122	ppb	0.23319	>999.9%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               14.7      0.2716 µg/L       0.37167      0.2716 ppb        0.37167 136.86%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               47.3      0.3149 µg/L       0.64401      0.3149 ppb        0.64401 204.49%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -1.3     -4.4824 µg/L       5.63223     -4.4824 ppb        5.63223 125.65%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -19.9     -24.660 µg/L       30.2380     -24.660 ppb        30.2380 122.62%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.6     -11.586 µg/L       10.1133     -11.586 ppb        10.1133  87.29%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               -2.1     -0.0059 µg/L       0.05048     -0.0059 ppb        0.05048 860.21%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -3.8     -0.4328 µg/L       0.47373     -0.4328 ppb        0.47373 109.45%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -4.7     -3.6701 µg/L      10.54519     -3.6701 ppb       10.54519 287.33%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                4.8      0.1420 µg/L       0.21914      0.1420 ppb        0.21914 154.34%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               -14.2     -15.097 µg/L        1.2462     -15.097 ppb         1.2462   8.25%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -3.0     -0.6514 µg/L       0.33916     -0.6514 ppb        0.33916  52.07%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.6      5.1452 µg/L       2.04606      5.1452 ppb        2.04606  39.77%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -0.9     -0.5623 µg/L       1.25648     -0.5623 ppb        1.25648 223.46%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                2.2        2.94 µg/L         3.953        2.94 ppb          3.953 134.39%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                      9.6      1.7675 µg/L       1.70243      1.7675 ppb        1.70243  96.32%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               -5.4     -0.1529 µg/L       0.46451     -0.1529 ppb        0.46451 303.86%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                0.8      0.3260 µg/L       0.53211      0.3260 ppb        0.53211 163.24%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               23.6      0.2692 µg/L       0.07177      0.2692 ppb        0.07177  26.67%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -179.0     -0.3317 µg/L       0.11808     -0.3317 ppb        0.11808  35.60%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                0.6      0.7685 µg/L       3.23980      0.7685 ppb        3.23980 421.56%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -13.6     -3.7061 µg/L      10.53269     -3.7061 ppb       10.53269 284.20%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -78.3     -0.5592 µg/L       0.45974     -0.5592 ppb        0.45974  82.22%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -0.6     -0.0085 µg/L       0.08760     -0.0085 ppb        0.08760 >999.9%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 17 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 16:29:41**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21883.7	21883.7	99.4	%			16:30:11
1	Al 396.153Radial†	3155.4	3266.6	5235.6	µg/L	5235.6	ppb	16:30:31
1	Ca 317.933Radial†	7294.1	7257.9	4940.6	µg/L	4940.6	ppb	16:30:31
1	Fe 238.204 Radial†	1513.1	1494.5	5084.5	µg/L	5084.5	ppb	16:30:31
1	K 766.490 Radial†	4731.5	4109.1	5094.8	µg/L	5094.8	ppb	16:30:11
1	Mg 279.077 IEC†	729.1	729.4	5164.6	µg/L	5164.6	ppb	16:30:31
1	Na 589.592 Radial†	13812.9	13933.1	10896	µg/L	10896	ppb	16:30:11
1	Sr 421.552†	43011.5	43249.9	493.58	µg/L	493.58	ppb	16:30:11
1	Sc 361.383	1276156.9	1276156.9	101.29	%			16:31:33
1	Y 371.029	738773.4	738773.4	99.146	%			16:31:33
1	Ag 328.068†	74921.9	73295.9	491.15	µg/L	491.15	ppb	16:31:35
1	As 188.979†	237.9	237.4	475.03	µg/L	475.03	ppb	16:31:55
1	B 249.677†	40565.4	39788.1	461.58	µg/L	461.58	ppb	16:31:35
1	Ba 233.527†	34713.1	34352.6	484.18	µg/L	484.18	ppb	16:31:35
1	Be 313.107†	1132933.8	1125341.3	487.75	µg/L	487.75	ppb	16:31:33
1	Cd 226.502†	31212.5	30923.6	482.42	µg/L	482.42	ppb	16:31:35
1	Co 228.616†	16618.2	16504.4	485.50	µg/L	485.50	ppb	16:31:35
1	Cr 267.716†	26795.8	26334.1	482.12	µg/L	482.12	ppb	16:31:35
1	Cu 324.752†	77308.2	72459.6	486.67	µg/L	486.67	ppb	16:31:35
1	Mn 257.610†	169728.1	167356.3	487.73	µg/L	487.73	ppb	16:31:35
1	Mo 202.031†	4291.2	4245.2	479.81	µg/L	479.81	ppb	16:31:55
1	Ni 231.604†	16501.9	16334.1	487.20	µg/L	487.20	ppb	16:31:35
1	P 214.914†	2259.9	2291.1	2415.5	µg/L	2415.5	ppb	16:31:55
1	Pb 220.353†	2363.8	2231.1	479.56	µg/L	479.56	ppb	16:31:55
1	S 181.975 Axial†	320.4	293.3	955.75	µg/L	955.75	ppb	16:31:55
1	Sb 206.836†	788.5	773.1	488.68	µg/L	488.68	ppb	16:31:55
1	Se 196.026†	369.2	353.3	483	µg/L	483	ppb	16:31:55
1	SiO2†	30261.4	28053.8	5172.7	µg/L	5172.7	ppb	16:31:35
1	Si 251.611†	83955.5	82470.7	2421.7	µg/L	2421.7	ppb	16:31:35
1	Sn 189.927†	1211.6	1198.0	487.77	µg/L	487.77	ppb	16:31:55
1	Ti 334.940†	265851.9	260873.6	485.85	µg/L	485.85	ppb	16:31:35
1	Tl 190.801†	377.3	388.7	466.49	µg/L	466.49	ppb	16:31:55
1	U 367.007†	2066.6	1725.2	443.99	µg/L	443.99	ppb	16:31:35
1	V 292.402†	69643.4	68392.1	489.84	µg/L	489.84	ppb	16:31:35
1	Zn 213.857†	38903.4	37863.9	479.40	µg/L	479.40	ppb	16:31:35
2	Sc RADIAL	21812.2	21812.2	99.0	%			16:30:33
2	Al 396.153Radial†	3153.2	3274.7	5248.7	µg/L	5248.7	ppb	16:30:53
2	Ca 317.933Radial†	7376.4	7365.1	5013.6	µg/L	5013.6	ppb	16:30:53
2	Fe 238.204 Radial†	1520.1	1506.6	5125.7	µg/L	5125.7	ppb	16:30:53
2	K 766.490 Radial†	4606.8	3998.8	4958.2	µg/L	4958.2	ppb	16:30:33
2	Mg 279.077 IEC†	736.6	739.4	5235.7	µg/L	5235.7	ppb	16:30:53
2	Na 589.592 Radial†	13526.7	13689.7	10705	µg/L	10705	ppb	16:30:33
2	Sr 421.552†	42572.4	42948.3	490.14	µg/L	490.14	ppb	16:30:33
2	Sc 361.383	1264857.8	1264857.8	100.40	%			16:31:57
2	Y 371.029	732547.7	732547.7	98.311	%			16:31:57
2	Ag 328.068†	74494.5	73530.9	492.72	µg/L	492.72	ppb	16:32:00
2	As 188.979†	231.1	232.7	465.65	µg/L	465.65	ppb	16:32:20
2	B 249.677†	40285.5	39867.1	462.44	µg/L	462.44	ppb	16:32:00
2	Ba 233.527†	34571.7	34517.8	486.51	µg/L	486.51	ppb	16:32:00
2	Be 313.107†	1122601.6	1125041.3	487.62	µg/L	487.62	ppb	16:31:57
2	Cd 226.502†	30911.6	30899.1	482.03	µg/L	482.03	ppb	16:32:00
2	Co 228.616†	16503.9	16537.2	486.46	µg/L	486.46	ppb	16:32:00
2	Cr 267.716†	26611.9	26387.2	483.10	µg/L	483.10	ppb	16:32:00
2	Cu 324.752†	76917.2	72751.9	488.64	µg/L	488.64	ppb	16:32:00
2	Mn 257.610†	168319.4	167450.1	488.00	µg/L	488.00	ppb	16:32:00
2	Mo 202.031†	4245.0	4237.1	478.89	µg/L	478.89	ppb	16:32:20
2	Ni 231.604†	16275.6	16254.3	484.82	µg/L	484.82	ppb	16:32:00
2	P 214.914†	2233.0	2284.2	2408.1	µg/L	2408.1	ppb	16:32:20
2	Pb 220.353†	2335.9	2224.3	478.08	µg/L	478.08	ppb	16:32:20

2	S 181.975 Axial†	319.2	295.0	961.09 µg/L	961.09 ppb	16:32:20
2	Sb 206.836†	773.6	765.3	483.71 µg/L	483.71 ppb	16:32:20
2	Se 196.026†	366.8	354.2	484 µg/L	484 ppb	16:32:20
2	SiO2†	30137.1	28196.9	5199.0 µg/L	5199.0 ppb	16:32:00
2	Si 251.611†	83494.9	82752.3	2430.0 µg/L	2430.0 ppb	16:32:00
2	Sn 189.927†	1193.1	1190.2	484.62 µg/L	484.62 ppb	16:32:20
2	Ti 334.940†	264280.7	261653.2	487.30 µg/L	487.30 ppb	16:32:00
2	Tl 190.801†	369.5	384.3	461.11 µg/L	461.11 ppb	16:32:20
2	U 367.007†	2043.6	1720.5	442.48 µg/L	442.48 ppb	16:32:00
2	V 292.402†	69219.4	68584.0	491.19 µg/L	491.19 ppb	16:32:00
2	Zn 213.857†	38537.3	37842.3	479.13 µg/L	479.13 ppb	16:32:00
3	Sc RADIAL	21625.2	21625.2	98.2 %		16:30:55
3	Al 396.153Radial†	3150.4	3299.4	5288.1 µg/L	5288.1 ppb	16:31:15
3	Ca 317.933Radial†	7293.2	7344.8	4999.7 µg/L	4999.7 ppb	16:31:15
3	Fe 238.204 Radial†	1509.9	1509.4	5135.3 µg/L	5135.3 ppb	16:31:15
3	K 766.490 Radial†	4657.9	4091.0	5072.5 µg/L	5072.5 ppb	16:30:55
3	Mg 279.077 IEC†	730.7	739.9	5238.7 µg/L	5238.7 ppb	16:31:15
3	Na 589.592 Radial†	13731.1	14016.0	10960 µg/L	10960 ppb	16:30:55
3	Sr 421.552†	42521.6	43268.5	493.79 µg/L	493.79 ppb	16:30:55
3	Sc 361.383	1246964.9	1246964.9	98.976 %		16:32:22
3	Y 371.029	722781.1	722781.1	97.000 %		16:32:22
3	Ag 328.068†	74333.1	74432.5	498.75 µg/L	498.75 ppb	16:32:24
3	As 188.979†	237.7	242.7	485.55 µg/L	485.55 ppb	16:32:44
3	B 249.677†	40168.7	40324.8	467.90 µg/L	467.90 ppb	16:32:24
3	Ba 233.527†	34410.5	34849.1	491.18 µg/L	491.18 ppb	16:32:24
3	Be 313.107†	1106054.1	1124367.5	487.33 µg/L	487.33 ppb	16:32:22
3	Cd 226.502†	30842.0	31270.7	487.84 µg/L	487.84 ppb	16:32:24
3	Co 228.616†	16367.5	16635.2	489.35 µg/L	489.35 ppb	16:32:24
3	Cr 267.716†	26599.5	26755.0	489.82 µg/L	489.82 ppb	16:32:24
3	Cu 324.752†	76528.6	73458.6	493.39 µg/L	493.39 ppb	16:32:24
3	Mn 257.610†	167680.3	169210.0	493.13 µg/L	493.13 ppb	16:32:24
3	Mo 202.031†	4290.4	4343.7	490.93 µg/L	490.93 ppb	16:32:44
3	Ni 231.604†	16399.6	16612.1	495.50 µg/L	495.50 ppb	16:32:24
3	P 214.914†	2264.2	2347.6	2475.2 µg/L	2475.2 ppb	16:32:44
3	Pb 220.353†	2367.8	2289.9	492.16 µg/L	492.16 ppb	16:32:44
3	S 181.975 Axial†	320.1	300.5	979.05 µg/L	979.05 ppb	16:32:44
3	Sb 206.836†	779.0	781.7	494.13 µg/L	494.13 ppb	16:32:44
3	Se 196.026†	369.0	361.7	494 µg/L	494 ppb	16:32:44
3	SiO2†	30113.8	28604.1	5274.1 µg/L	5274.1 ppb	16:32:24
3	Si 251.611†	83000.8	83446.4	2450.2 µg/L	2450.2 ppb	16:32:24
3	Sn 189.927†	1208.5	1222.9	497.91 µg/L	497.91 ppb	16:32:44
3	Ti 334.940†	263382.1	264522.5	492.63 µg/L	492.63 ppb	16:32:24
3	Tl 190.801†	376.0	396.2	475.45 µg/L	475.45 ppb	16:32:44
3	U 367.007†	2112.8	1819.7	469.60 µg/L	469.60 ppb	16:32:24
3	V 292.402†	69128.6	69481.6	497.69 µg/L	497.69 ppb	16:32:24
3	Zn 213.857†	38493.6	38349.0	485.53 µg/L	485.53 ppb	16:32:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1262659.9	100.22	%	1.168				1.17%
Sc RADIAL	21773.7	98.9	%	0.61				0.61%
Y 371.029	731367.4	98.152	%	1.0818				1.10%
Ag 328.068†	73753.1	494.20	µg/L	4.014	494.20	ppb	4.014	0.81%
QC value within limits for Ag 328.068 Recovery = 98.84%								
Al 396.153Radial†	3280.2	5257.5	µg/L	27.33	5257.5	ppb	27.33	0.52%
QC value within limits for Al 396.153Radial Recovery = 105.15%								
As 188.979†	237.6	475.41	µg/L	9.955	475.41	ppb	9.955	2.09%
QC value within limits for As 188.979 Recovery = 95.08%								
B 249.677†	39993.3	463.97	µg/L	3.429	463.97	ppb	3.429	0.74%
QC value within limits for B 249.677 Recovery = 92.79%								
Ba 233.527†	34573.2	487.29	µg/L	3.565	487.29	ppb	3.565	0.73%
QC value within limits for Ba 233.527 Recovery = 97.46%								
Be 313.107†	1124916.7	487.57	µg/L	0.216	487.57	ppb	0.216	0.04%
QC value within limits for Be 313.107 Recovery = 97.51%								
Ca 317.933Radial†	7322.6	4984.6	µg/L	38.74	4984.6	ppb	38.74	0.78%
QC value within limits for Ca 317.933Radial Recovery = 99.69%								
Cd 226.502†	31031.1	484.10	µg/L	3.246	484.10	ppb	3.246	0.67%
QC value within limits for Cd 226.502 Recovery = 96.82%								
Co 228.616†	16558.9	487.10	µg/L	2.004	487.10	ppb	2.004	0.41%

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   QC value within limits for Co 228.616  Recovery = 97.42%
Cr 267.716†            26492.1      485.01 µg/L         4.190      485.01 ppb          4.190   0.86%
   QC value within limits for Cr 267.716  Recovery = 97.00%
Cu 324.752†            72890.0      489.57 µg/L         3.451      489.57 ppb          3.451   0.70%
   QC value within limits for Cu 324.752  Recovery = 97.91%
Fe 238.204 Radial†      1503.5      5115.2 µg/L         26.97      5115.2 ppb          26.97   0.53%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.30%
K 766.490 Radial†       4066.3      5041.9 µg/L         73.27      5041.9 ppb          73.27   1.45%
   QC value within limits for K 766.490 Radial  Recovery = 100.84%
Mg 279.077 IEC†          736.2      5213.0 µg/L         41.95      5213.0 ppb          41.95   0.80%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.26%
Mn 257.610†           168005.4      489.62 µg/L         3.043      489.62 ppb          3.043   0.62%
   QC value within limits for Mn 257.610  Recovery = 97.92%
Mo 202.031†             4275.3      483.21 µg/L         6.704      483.21 ppb          6.704   1.39%
   QC value within limits for Mo 202.031  Recovery = 96.64%
Na 589.592 Radial†     13879.6       10854 µg/L         132.6       10854 ppb          132.6   1.22%
   QC value within limits for Na 589.592 Radial  Recovery = 108.54%
Ni 231.604†            16400.1      489.17 µg/L         5.603      489.17 ppb          5.603   1.15%
   QC value within limits for Ni 231.604  Recovery = 97.83%
P 214.914†              2307.6      2432.9 µg/L         36.82      2432.9 ppb          36.82   1.51%
   QC value within limits for P 214.914  Recovery = 97.32%
Pb 220.353†             2248.4      483.26 µg/L         7.735      483.26 ppb          7.735   1.60%
   QC value within limits for Pb 220.353  Recovery = 96.65%
S 181.975 Axial†         296.3      965.30 µg/L        12.204      965.30 ppb         12.204   1.26%
   QC value within limits for S 181.975 Axial  Recovery = 96.53%
Sb 206.836†              773.4      488.84 µg/L         5.212      488.84 ppb          5.212   1.07%
   QC value within limits for Sb 206.836  Recovery = 97.77%
Se 196.026†              356.4         487 µg/L           6.2         487 ppb            6.2   1.28%
   QC value within limits for Se 196.026  Recovery = 97.36%
SiO2†                  28284.9      5215.2 µg/L         52.63      5215.2 ppb          52.63   1.01%
   QC value within limits for SiO2  Recovery = 97.53%
Si 251.611†            82889.8      2433.9 µg/L         14.70      2433.9 ppb          14.70   0.60%
   QC value within limits for Si 251.611  Recovery = 97.36%
Sn 189.927†             1203.7      490.10 µg/L         6.943      490.10 ppb          6.943   1.42%
   QC value within limits for Sn 189.927  Recovery = 98.02%
Sr 421.552†            43155.5      492.50 µg/L         2.051      492.50 ppb          2.051   0.42%
   QC value within limits for Sr 421.552  Recovery = 98.50%
Ti 334.940†           262349.8      488.59 µg/L         3.572      488.59 ppb          3.572   0.73%
   QC value within limits for Ti 334.940  Recovery = 97.72%
Tl 190.801†              389.7      467.69 µg/L         7.245      467.69 ppb          7.245   1.55%
   QC value within limits for Tl 190.801  Recovery = 93.54%
U 367.007†              1755.1      452.02 µg/L        15.245      452.02 ppb         15.245   3.37%
   QC value within limits for U 367.007  Recovery = 90.40%
V 292.402†             68819.2      492.90 µg/L         4.199      492.90 ppb          4.199   0.85%
   QC value within limits for V 292.402  Recovery = 98.58%
Zn 213.857†            38018.4      481.35 µg/L         3.619      481.35 ppb          3.619   0.75%
   QC value within limits for Zn 213.857  Recovery = 96.27%
All analyte(s) passed QC.
```

Sequence No.: 18 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 16:32:52**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21756.2	21756.2	98.8	%			16:33:39
1	Al 396.153Radial†	-85.9	4.2	6.8069	µg/L	6.8069	ppb	16:33:39
1	Ca 317.933Radial†	91.2	10.0	6.8169	µg/L	6.8169	ppb	16:33:59
1	Fe 238.204 Radial†	29.4	1.6	5.6009	µg/L	5.6009	ppb	16:33:59
1	K 766.490 Radial†	609.0	-35.9	-44.428	µg/L	-44.428	ppb	16:33:39
1	Mg 279.077 IEC†	6.0	1.7	12.325	µg/L	12.325	ppb	16:33:59
1	Na 589.592 Radial†	-43.3	-10.9	-8.5410	µg/L	-8.5410	ppb	16:33:39
1	Sr 421.552†	55.4	22.4	0.2558	µg/L	0.2558	ppb	16:33:39
1	Sc 361.383	1269377.9	1269377.9	100.75	%			16:35:37
1	Y 371.029	750641.6	750641.6	100.74	%			16:35:37
1	Ag 328.068†	535.5	-138.2	-0.9223	µg/L	-0.9223	ppb	16:35:39
1	As 188.979†	-3.9	-1.3	-2.6086	µg/L	-2.6086	ppb	16:35:59
1	B 249.677†	372.0	109.7	1.3245	µg/L	1.3245	ppb	16:35:59
1	Ba 233.527†	-94.8	-11.5	-0.1635	µg/L	-0.1635	ppb	16:35:59
1	Be 313.107†	-6748.9	170.7	0.0740	µg/L	0.0740	ppb	16:35:39
1	Cd 226.502†	-92.8	17.4	0.2699	µg/L	0.2699	ppb	16:35:59
1	Co 228.616†	-90.4	8.7	0.2576	µg/L	0.2576	ppb	16:35:59
1	Cr 267.716†	123.5	2.9	0.0549	µg/L	0.0549	ppb	16:35:59
1	Cu 324.752†	3782.1	-108.1	-0.7248	µg/L	-0.7248	ppb	16:35:39
1	Mn 257.610†	214.6	7.8	0.0223	µg/L	0.0223	ppb	16:35:59
1	Mo 202.031†	-4.1	4.7	0.5360	µg/L	0.5360	ppb	16:35:59
1	Ni 231.604†	-64.8	-21.4	-0.6396	µg/L	-0.6396	ppb	16:35:59
1	P 214.914†	-77.5	-16.8	-17.867	µg/L	-17.867	ppb	16:35:59
1	Pb 220.353†	90.2	-12.9	-2.7630	µg/L	-2.7630	ppb	16:35:59
1	S 181.975 Axial†	28.0	4.8	15.837	µg/L	15.837	ppb	16:35:59
1	Sb 206.836†	1.5	-3.8	-2.4297	µg/L	-2.4297	ppb	16:35:59
1	Se 196.026†	14.9	3.7	5.03	µg/L	5.03	ppb	16:35:59
1	SiO2†	1795.9	-38.8	-7.1389	µg/L	-7.1389	ppb	16:35:59
1	Si 251.611†	396.7	-19.4	-0.5778	µg/L	-0.5778	ppb	16:35:59
1	Sn 189.927†	-0.5	1.3	0.5493	µg/L	0.5493	ppb	16:35:59
1	Ti 334.940†	1452.6	-143.1	-0.2647	µg/L	-0.2647	ppb	16:35:39
1	Tl 190.801†	-14.2	2.1	2.5720	µg/L	2.5720	ppb	16:35:59
1	U 367.007†	306.4	-11.0	-3.0408	µg/L	-3.0408	ppb	16:35:39
1	V 292.402†	301.7	-62.9	-0.4373	µg/L	-0.4373	ppb	16:35:39
1	Zn 213.857†	524.4	-22.5	-0.2831	µg/L	-0.2831	ppb	16:35:59
2	Sc RADIAL	21830.2	21830.2	99.1	%			16:34:19
2	Al 396.153Radial†	-84.7	5.7	9.1901	µg/L	9.1901	ppb	16:34:19
2	Ca 317.933Radial†	80.1	-1.4	-0.9832	µg/L	-0.9832	ppb	16:34:39
2	Fe 238.204 Radial†	27.5	-0.4	-1.1999	µg/L	-1.1999	ppb	16:34:39
2	K 766.490 Radial†	613.0	-33.9	-41.965	µg/L	-41.965	ppb	16:34:19
2	Mg 279.077 IEC†	4.7	0.4	3.0285	µg/L	3.0285	ppb	16:34:39
2	Na 589.592 Radial†	-73.0	-40.7	-31.851	µg/L	-31.851	ppb	16:34:19
2	Sr 421.552†	50.0	16.8	0.1920	µg/L	0.1920	ppb	16:34:19
2	Sc 361.383	1257776.1	1257776.1	99.834	%			16:36:01
2	Y 371.029	743940.3	743940.3	99.839	%			16:36:01
2	Ag 328.068†	555.2	-113.6	-0.7584	µg/L	-0.7584	ppb	16:36:03
2	As 188.979†	-6.7	-4.2	-8.2168	µg/L	-8.2168	ppb	16:36:23
2	B 249.677†	334.4	75.4	0.9328	µg/L	0.9328	ppb	16:36:23
2	Ba 233.527†	-69.8	12.6	0.1776	µg/L	0.1776	ppb	16:36:23
2	Be 313.107†	-6973.7	-116.1	-0.0503	µg/L	-0.0503	ppb	16:36:03
2	Cd 226.502†	-90.2	19.2	0.2991	µg/L	0.2991	ppb	16:36:23
2	Co 228.616†	-107.4	-9.2	-0.2686	µg/L	-0.2686	ppb	16:36:23
2	Cr 267.716†	139.3	19.9	0.3647	µg/L	0.3647	ppb	16:36:23
2	Cu 324.752†	3882.1	26.7	0.1778	µg/L	0.1778	ppb	16:36:03
2	Mn 257.610†	195.2	-9.7	-0.0285	µg/L	-0.0285	ppb	16:36:23
2	Mo 202.031†	-8.5	0.3	0.0372	µg/L	0.0372	ppb	16:36:23
2	Ni 231.604†	-45.7	-3.0	-0.0889	µg/L	-0.0889	ppb	16:36:23
2	P 214.914†	-65.2	-5.2	-5.5332	µg/L	-5.5332	ppb	16:36:23
2	Pb 220.353†	100.4	-1.9	-0.4005	µg/L	-0.4005	ppb	16:36:23

2	S 181.975 Axial†	31.8	9.0	29.297	µg/L	29.297	ppb	16:36:23
2	Sb 206.836†	-3.0	-8.3	-5.2419	µg/L	-5.2419	ppb	16:36:23
2	Se 196.026†	11.3	0.2	0.266	µg/L	0.266	ppb	16:36:23
2	SiO2†	1813.6	-4.6	-0.8391	µg/L	-0.8391	ppb	16:36:23
2	Si 251.611†	389.3	-23.2	-0.6828	µg/L	-0.6828	ppb	16:36:23
2	Sn 189.927†	6.3	8.2	3.3266	µg/L	3.3266	ppb	16:36:23
2	Ti 334.940†	1416.9	-165.5	-0.3078	µg/L	-0.3078	ppb	16:36:03
2	Tl 190.801†	-11.6	4.6	5.6316	µg/L	5.6316	ppb	16:36:23
2	U 367.007†	309.9	-4.6	-1.2667	µg/L	-1.2667	ppb	16:36:03
2	V 292.402†	354.4	-7.3	-0.0510	µg/L	-0.0510	ppb	16:36:03
2	Zn 213.857†	535.7	-6.3	-0.0804	µg/L	-0.0804	ppb	16:36:23
3	Sc RADIAL	21789.2	21789.2	98.9	%			16:34:59
3	Al 396.153Radial†	-105.0	-15.0	-23.989	µg/L	-23.989	ppb	16:34:59
3	Ca 317.933Radial†	90.8	9.5	6.5051	µg/L	6.5051	ppb	16:35:19
3	Fe 238.204 Radial†	29.4	1.6	5.3852	µg/L	5.3852	ppb	16:35:19
3	K 766.490 Radial†	610.6	-35.2	-43.622	µg/L	-43.622	ppb	16:34:59
3	Mg 279.077 IEC†	-0.9	-5.2	-36.766	µg/L	-36.766	ppb	16:35:19
3	Na 589.592 Radial†	-59.3	-27.1	-21.163	µg/L	-21.163	ppb	16:34:59
3	Sr 421.552†	50.6	17.5	0.1992	µg/L	0.1992	ppb	16:34:59
3	Sc 361.383	1266085.3	1266085.3	100.49	%			16:36:25
3	Y 371.029	748519.0	748519.0	100.45	%			16:36:25
3	Ag 328.068†	613.5	-59.2	-0.4036	µg/L	-0.4036	ppb	16:36:27
3	As 188.979†	-3.7	-1.1	-2.2291	µg/L	-2.2291	ppb	16:36:47
3	B 249.677†	370.5	109.2	1.3195	µg/L	1.3195	ppb	16:36:47
3	Ba 233.527†	-81.3	1.6	0.0221	µg/L	0.0221	ppb	16:36:47
3	Be 313.107†	-6731.2	171.0	0.0741	µg/L	0.0741	ppb	16:36:27
3	Cd 226.502†	-98.3	11.7	0.1817	µg/L	0.1817	ppb	16:36:47
3	Co 228.616†	-86.2	12.6	0.3707	µg/L	0.3707	ppb	16:36:47
3	Cr 267.716†	124.0	3.6	0.0628	µg/L	0.0628	ppb	16:36:47
3	Cu 324.752†	3892.1	11.2	0.0794	µg/L	0.0794	ppb	16:36:27
3	Mn 257.610†	193.5	-12.7	-0.0354	µg/L	-0.0354	ppb	16:36:47
3	Mo 202.031†	-17.5	-8.5	-0.9640	µg/L	-0.9640	ppb	16:36:47
3	Ni 231.604†	-47.8	-4.7	-0.1415	µg/L	-0.1415	ppb	16:36:47
3	P 214.914†	-61.6	-1.3	-1.3835	µg/L	-1.3835	ppb	16:36:47
3	Pb 220.353†	102.4	-0.5	-0.1190	µg/L	-0.1190	ppb	16:36:47
3	S 181.975 Axial†	21.0	-2.1	-6.7532	µg/L	-6.7532	ppb	16:36:47
3	Sb 206.836†	0.2	-5.2	-3.2705	µg/L	-3.2705	ppb	16:36:47
3	Se 196.026†	4.8	-6.3	-8.55	µg/L	-8.55	ppb	16:36:47
3	SiO2†	1806.2	-23.9	-4.4030	µg/L	-4.4030	ppb	16:36:47
3	Si 251.611†	404.4	-10.8	-0.3033	µg/L	-0.3033	ppb	16:36:47
3	Sn 189.927†	1.3	3.2	1.2855	µg/L	1.2855	ppb	16:36:47
3	Ti 334.940†	1383.6	-208.0	-0.3905	µg/L	-0.3905	ppb	16:36:27
3	Tl 190.801†	-19.2	-2.9	-3.5203	µg/L	-3.5203	ppb	16:36:47
3	U 367.007†	341.3	24.6	6.7106	µg/L	6.7106	ppb	16:36:27
3	V 292.402†	320.1	-43.7	-0.3149	µg/L	-0.3149	ppb	16:36:27
3	Zn 213.857†	519.2	-26.3	-0.3349	µg/L	-0.3349	ppb	16:36:47

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1264413.1	100.36	%	0.475				0.47%
Sc RADIAL	21791.9	99.0	%	0.17				0.17%
Y 371.029	747700.3	100.34	%	0.460				0.46%
Ag 328.068†	-103.7	-0.6948	µg/L	0.26518	-0.6948	ppb	0.26518	38.17%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-1.7	-2.6641	µg/L	18.50651	-2.6641	ppb	18.50651	694.67%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.2	-4.3515	µg/L	3.35286	-4.3515	ppb	3.35286	77.05%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	98.1	1.1923	µg/L	0.22473	1.1923	ppb	0.22473	18.85%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	0.9	0.0121	µg/L	0.17075	0.0121	ppb	0.17075	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	75.2	0.0326	µg/L	0.07182	0.0326	ppb	0.07182	220.35%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.0	4.1129	µg/L	4.41612	4.1129	ppb	4.41612	107.37%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	16.1	0.2502	µg/L	0.06110	0.2502	ppb	0.06110	24.42%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	4.1	0.1199	µg/L	0.34116	0.1199	ppb	0.34116	284.49%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 8.8      0.1608 µg/L       0.17665      0.1608 ppb        0.17665 109.85%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -23.4     -0.1559 µg/L       0.49516     -0.1559 ppb        0.49516 317.67%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          1.0      3.2621 µg/L       3.86569      3.2621 ppb        3.86569 118.50%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -35.0     -43.338 µg/L        1.2559     -43.338 ppb         1.2559   2.90%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -1.0     -7.1373 µg/L      26.07674     -7.1373 ppb       26.07674 365.36%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                -4.9     -0.0139 µg/L       0.03152     -0.0139 ppb        0.03152 226.92%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -1.2     -0.1303 µg/L       0.76389     -0.1303 ppb        0.76389 586.47%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -26.2     -20.518 µg/L       11.6684     -20.518 ppb        11.6684  56.87%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -9.7     -0.2900 µg/L       0.30390     -0.2900 ppb        0.30390 104.79%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -7.8     -8.2613 µg/L       8.57381     -8.2613 ppb        8.57381 103.78%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -5.1     -1.0942 µg/L       1.45210     -1.0942 ppb        1.45210 132.71%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            3.9      12.794 µg/L       18.2168      12.794 ppb        18.2168 142.39%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -5.8     -3.6474 µg/L       1.44347     -3.6474 ppb        1.44347  39.58%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -0.8       -1.09 µg/L         6.887       -1.09 ppb          6.887 634.70%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     -22.4     -4.1270 µg/L       3.15895     -4.1270 ppb        3.15895  76.54%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               -17.8     -0.5213 µg/L       0.19599     -0.5213 ppb        0.19599  37.60%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 4.2      1.7205 µg/L       1.43884      1.7205 ppb        1.43884  83.63%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                18.9      0.2157 µg/L       0.03496      0.2157 ppb        0.03496  16.21%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -172.2     -0.3210 µg/L       0.06389     -0.3210 ppb        0.06389  19.90%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.3      1.5611 µg/L       4.65891      1.5611 ppb        4.65891 298.44%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                  3.0      0.8010 µg/L       5.19416      0.8010 ppb        5.19416 648.43%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -38.0     -0.2678 µg/L       0.19742     -0.2678 ppb        0.19742  73.73%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -18.4     -0.2328 µg/L       0.13449     -0.2328 ppb        0.13449  57.76%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 22 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 16:49:11**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21981.5	21981.5	99.8	%			16:49:42
1	Al 396.153Radial†	3202.5	3299.6	5288.4	µg/L	5288.4	ppb	16:50:02
1	Ca 317.933Radial†	7378.0	7309.3	4975.6	µg/L	4975.6	ppb	16:50:02
1	Fe 238.204 Radial†	1531.7	1506.4	5124.7	µg/L	5124.7	ppb	16:50:02
1	K 766.490 Radial†	4539.9	3896.0	4831.2	µg/L	4831.2	ppb	16:49:42
1	Mg 279.077 IEC†	732.0	729.1	5162.6	µg/L	5162.6	ppb	16:50:02
1	Na 589.592 Radial†	13542.9	13600.8	10636	µg/L	10636	ppb	16:49:42
1	Sr 421.552†	43177.5	43223.6	493.28	µg/L	493.28	ppb	16:49:42
1	Sc 361.383	1244472.3	1244472.3	98.778	%			16:51:04
1	Y 371.029	720745.0	720745.0	96.727	%			16:51:04
1	Ag 328.068†	74791.2	75046.7	502.89	µg/L	502.89	ppb	16:51:06
1	As 188.979†	237.9	243.4	486.95	µg/L	486.95	ppb	16:51:26
1	B 249.677†	40345.5	40585.1	471.21	µg/L	471.21	ppb	16:51:06
1	Ba 233.527†	34488.8	34998.0	493.28	µg/L	493.28	ppb	16:51:06
1	Be 313.107†	1107477.0	1128046.2	488.92	µg/L	488.92	ppb	16:51:04
1	Cd 226.502†	30892.0	31383.6	489.61	µg/L	489.61	ppb	16:51:06
1	Co 228.616†	16539.8	16842.8	495.47	µg/L	495.47	ppb	16:51:06
1	Cr 267.716†	26731.4	26942.3	493.26	µg/L	493.26	ppb	16:51:06
1	Cu 324.752†	76971.1	74061.4	497.42	µg/L	497.42	ppb	16:51:06
1	Mn 257.610†	167356.0	169221.0	493.16	µg/L	493.16	ppb	16:51:06
1	Mo 202.031†	4288.4	4350.3	491.67	µg/L	491.67	ppb	16:51:26
1	Ni 231.604†	16394.6	16640.2	496.34	µg/L	496.34	ppb	16:51:06
1	P 214.914†	2252.7	2340.6	2467.8	µg/L	2467.8	ppb	16:51:26
1	Pb 220.353†	2354.7	2281.4	490.36	µg/L	490.36	ppb	16:51:26
1	S 181.975 Axial†	320.3	301.3	981.89	µg/L	981.89	ppb	16:51:26
1	Sb 206.836†	791.9	796.4	503.39	µg/L	503.39	ppb	16:51:26
1	Se 196.026†	369.6	363.1	496	µg/L	496	ppb	16:51:26
1	SiO2†	30183.2	28735.3	5298.3	µg/L	5298.3	ppb	16:51:06
1	Si 251.611†	83472.0	84091.5	2469.2	µg/L	2469.2	ppb	16:51:06
1	Sn 189.927†	1216.2	1233.1	502.07	µg/L	502.07	ppb	16:51:26
1	Ti 334.940†	261351.9	263000.3	489.81	µg/L	489.81	ppb	16:51:04
1	Tl 190.801†	371.6	392.4	470.83	µg/L	470.83	ppb	16:51:26
1	U 367.007†	2018.7	1728.6	444.68	µg/L	444.68	ppb	16:51:06
1	V 292.402†	69510.7	70008.3	501.41	µg/L	501.41	ppb	16:51:06
1	Zn 213.857†	38751.9	38688.4	489.85	µg/L	489.85	ppb	16:51:06
2	Sc RADIAL	21976.6	21976.6	99.8	%			16:50:04
2	Al 396.153Radial†	3169.5	3267.3	5236.8	µg/L	5236.8	ppb	16:50:24
2	Ca 317.933Radial†	7326.2	7259.1	4941.4	µg/L	4941.4	ppb	16:50:24
2	Fe 238.204 Radial†	1517.2	1492.2	5076.5	µg/L	5076.5	ppb	16:50:24
2	K 766.490 Radial†	4678.1	4035.5	5003.8	µg/L	5003.8	ppb	16:50:04
2	Mg 279.077 IEC†	723.7	720.9	5104.8	µg/L	5104.8	ppb	16:50:24
2	Na 589.592 Radial†	13625.5	13686.6	10703	µg/L	10703	ppb	16:50:04
2	Sr 421.552†	43428.2	43484.4	496.26	µg/L	496.26	ppb	16:50:04
2	Sc 361.383	1273797.0	1273797.0	101.11	%			16:51:28
2	Y 371.029	737758.2	737758.2	99.010	%			16:51:28
2	Ag 328.068†	75263.3	73770.6	494.32	µg/L	494.32	ppb	16:51:31
2	As 188.979†	233.6	233.6	467.43	µg/L	467.43	ppb	16:51:51
2	B 249.677†	40792.4	40086.8	465.26	µg/L	465.26	ppb	16:51:31
2	Ba 233.527†	34973.3	34673.4	488.70	µg/L	488.70	ppb	16:51:31
2	Be 313.107†	1123566.2	1118148.3	484.63	µg/L	484.63	ppb	16:51:28
2	Cd 226.502†	31163.5	30932.2	482.56	µg/L	482.56	ppb	16:51:31
2	Co 228.616†	16619.1	16535.7	486.42	µg/L	486.42	ppb	16:51:31
2	Cr 267.716†	26900.0	26486.1	484.90	µg/L	484.90	ppb	16:51:31
2	Cu 324.752†	77262.5	72555.7	487.32	µg/L	487.32	ppb	16:51:31
2	Mn 257.610†	168821.8	166770.4	486.02	µg/L	486.02	ppb	16:51:31
2	Mo 202.031†	4283.4	4245.4	479.83	µg/L	479.83	ppb	16:51:51
2	Ni 231.604†	16544.4	16406.3	489.36	µg/L	489.36	ppb	16:51:31
2	P 214.914†	2259.2	2294.5	2419.1	µg/L	2419.1	ppb	16:51:51
2	Pb 220.353†	2336.5	2208.6	474.71	µg/L	474.71	ppb	16:51:51

2	S 181.975 Axial†	322.5	296.1	964.64 µg/L	964.64 ppb		16:51:51
2	Sb 206.836†	786.6	772.7	488.36 µg/L	488.36 ppb		16:51:51
2	Se 196.026†	374.7	359.5	491 µg/L	491 ppb		16:51:51
2	SiO2†	30528.8	28373.6	5231.6 µg/L	5231.6 ppb		16:51:31
2	Si 251.611†	84292.4	82957.5	2436.0 µg/L	2436.0 ppb		16:51:31
2	Sn 189.927†	1211.0	1199.6	488.46 µg/L	488.46 ppb		16:51:51
2	Ti 334.940†	264840.1	260359.1	484.88 µg/L	484.88 ppb		16:51:28
2	Tl 190.801†	378.9	391.0	469.25 µg/L	469.25 ppb		16:51:51
2	U 367.007†	2090.1	1752.2	451.45 µg/L	451.45 ppb		16:51:31
2	V 292.402†	69902.8	68776.1	492.56 µg/L	492.56 ppb		16:51:31
2	Zn 213.857†	39000.6	38031.2	481.52 µg/L	481.52 ppb		16:51:31
3	Sc RADIAL	21822.4	21822.4	99.1 %			16:50:26
3	Al 396.153Radial†	3186.0	3306.3	5299.3 µg/L	5299.3 ppb		16:50:46
3	Ca 317.933Radial†	7397.0	7382.4	5025.4 µg/L	5025.4 ppb		16:50:46
3	Fe 238.204 Radial†	1528.0	1513.8	5149.7 µg/L	5149.7 ppb		16:50:46
3	K 766.490 Radial†	4561.0	3950.4	4898.7 µg/L	4898.7 ppb		16:50:26
3	Mg 279.077 IEC†	744.1	746.7	5286.8 µg/L	5286.8 ppb		16:50:46
3	Na 589.592 Radial†	13453.7	13609.8	10643 µg/L	10643 ppb		16:50:26
3	Sr 421.552†	43192.6	43554.3	497.05 µg/L	497.05 ppb		16:50:26
3	Sc 361.383	1248548.5	1248548.5	99.102 %			16:51:53
3	Y 371.029	722965.7	722965.7	97.025 %			16:51:53
3	Ag 328.068†	76039.6	76059.2	509.66 µg/L	509.66 ppb		16:51:55
3	As 188.979†	230.5	235.1	470.67 µg/L	470.67 ppb		16:52:15
3	B 249.677†	41568.5	41685.9	484.42 µg/L	484.42 ppb		16:51:55
3	Ba 233.527†	35435.9	35839.7	505.14 µg/L	505.14 ppb		16:51:55
3	Be 313.107†	1120439.4	1137465.8	493.00 µg/L	493.00 ppb		16:51:53
3	Cd 226.502†	31714.2	32111.2	500.97 µg/L	500.97 ppb		16:51:55
3	Co 228.616†	16873.1	17124.5	503.75 µg/L	503.75 ppb		16:51:55
3	Cr 267.716†	27453.7	27582.9	504.98 µg/L	504.98 ppb		16:51:55
3	Cu 324.752†	78396.0	75244.8	505.37 µg/L	505.37 ppb		16:51:55
3	Mn 257.610†	171260.7	172608.0	503.03 µg/L	503.03 ppb		16:51:55
3	Mo 202.031†	4309.7	4357.6	492.50 µg/L	492.50 ppb		16:52:15
3	Ni 231.604†	16817.9	17013.2	507.46 µg/L	507.46 ppb		16:51:55
3	P 214.914†	2262.0	2342.6	2469.7 µg/L	2469.7 ppb		16:52:15
3	Pb 220.353†	2346.7	2265.6	486.95 µg/L	486.95 ppb		16:52:15
3	S 181.975 Axial†	328.6	308.7	1005.8 µg/L	1005.8 ppb		16:52:15
3	Sb 206.836†	791.7	793.5	501.47 µg/L	501.47 ppb		16:52:15
3	Se 196.026†	372.3	364.6	498 µg/L	498 ppb		16:52:15
3	SiO2†	30832.8	29291.0	5400.8 µg/L	5400.8 ppb		16:51:55
3	Si 251.611†	85479.2	85841.0	2520.7 µg/L	2520.7 ppb		16:51:55
3	Sn 189.927†	1218.5	1231.4	501.38 µg/L	501.38 ppb		16:52:15
3	Ti 334.940†	264194.7	265005.0	493.53 µg/L	493.53 ppb		16:51:53
3	Tl 190.801†	385.0	404.7	485.59 µg/L	485.59 ppb		16:52:15
3	U 367.007†	2112.1	1816.2	468.52 µg/L	468.52 ppb		16:51:55
3	V 292.402†	70995.7	71277.1	510.40 µg/L	510.40 ppb		16:51:55
3	Zn 213.857†	39540.3	39355.8	498.28 µg/L	498.28 ppb		16:51:55

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1255605.9	99.662	%	1.2609				1.27%
Sc RADIAL	21926.8	99.6	%	0.41				0.41%
Y 371.029	727156.3	97.587	%	1.2412				1.27%
Ag 328.068†	74958.8	502.29	µg/L	7.689	502.29	ppb	7.689	1.53%
QC value within limits for Ag 328.068 Recovery = 100.46%								
Al 396.153Radial†	3291.0	5274.8	µg/L	33.41	5274.8	ppb	33.41	0.63%
QC value within limits for Al 396.153Radial Recovery = 105.50%								
As 188.979†	237.4	475.02	µg/L	10.459	475.02	ppb	10.459	2.20%
QC value within limits for As 188.979 Recovery = 95.00%								
B 249.677†	40785.9	473.63	µg/L	9.809	473.63	ppb	9.809	2.07%
QC value within limits for B 249.677 Recovery = 94.73%								
Ba 233.527†	35170.4	495.71	µg/L	8.485	495.71	ppb	8.485	1.71%
QC value within limits for Ba 233.527 Recovery = 99.14%								
Be 313.107†	1127886.8	488.85	µg/L	4.187	488.85	ppb	4.187	0.86%
QC value within limits for Be 313.107 Recovery = 97.77%								
Ca 317.933Radial†	7316.9	4980.8	µg/L	42.22	4980.8	ppb	42.22	0.85%
QC value within limits for Ca 317.933Radial Recovery = 99.62%								
Cd 226.502†	31475.7	491.04	µg/L	9.289	491.04	ppb	9.289	1.89%
QC value within limits for Cd 226.502 Recovery = 98.21%								
Co 228.616†	16834.3	495.21	µg/L	8.669	495.21	ppb	8.669	1.75%

```
   QC value within limits for Co 228.616  Recovery = 99.04%
Cr 267.716†            27003.8      494.38 µg/L        10.085      494.38 ppb         10.085   2.04%
   QC value within limits for Cr 267.716  Recovery = 98.88%
Cu 324.752†            73954.0      496.70 µg/L         9.045      496.70 ppb          9.045   1.82%
   QC value within limits for Cu 324.752  Recovery = 99.34%
Fe 238.204 Radial†      1504.1      5117.0 µg/L         37.21      5117.0 ppb          37.21   0.73%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.34%
K 766.490 Radial†       3960.6      4911.2 µg/L         86.97      4911.2 ppb          86.97   1.77%
   QC value within limits for K 766.490 Radial  Recovery = 98.22%
Mg 279.077 IEC†          732.2      5184.7 µg/L         93.03      5184.7 ppb          93.03   1.79%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.69%
Mn 257.610†           169533.1      494.07 µg/L         8.541      494.07 ppb          8.541   1.73%
   QC value within limits for Mn 257.610  Recovery = 98.81%
Mo 202.031†             4317.8      488.00 µg/L         7.091      488.00 ppb          7.091   1.45%
   QC value within limits for Mo 202.031  Recovery = 97.60%
Na 589.592 Radial†     13632.4       10660 µg/L          36.9       10660 ppb           36.9   0.35%
   QC value within limits for Na 589.592 Radial  Recovery = 106.60%
Ni 231.604†            16686.6      497.72 µg/L         9.130      497.72 ppb          9.130   1.83%
   QC value within limits for Ni 231.604  Recovery = 99.54%
P 214.914†              2325.9      2452.2 µg/L         28.67      2452.2 ppb          28.67   1.17%
   QC value within limits for P 214.914  Recovery = 98.09%
Pb 220.353†             2251.8      484.01 µg/L         8.230      484.01 ppb          8.230   1.70%
   QC value within limits for Pb 220.353  Recovery = 96.80%
S 181.975 Axial†         302.0      984.11 µg/L        20.668      984.11 ppb         20.668   2.10%
   QC value within limits for S 181.975 Axial  Recovery = 98.41%
Sb 206.836†              787.5      497.74 µg/L         8.178      497.74 ppb          8.178   1.64%
   QC value within limits for Sb 206.836  Recovery = 99.55%
Se 196.026†              362.4         495 µg/L           3.6         495 ppb            3.6   0.72%
   QC value within limits for Se 196.026  Recovery = 98.98%
SiO2†                  28800.0      5310.2 µg/L         85.25      5310.2 ppb          85.25   1.61%
   QC value within limits for SiO2  Recovery = 99.30%
Si 251.611†            84296.7      2475.3 µg/L         42.68      2475.3 ppb          42.68   1.72%
   QC value within limits for Si 251.611  Recovery = 99.01%
Sn 189.927†             1221.4      497.30 µg/L         7.666      497.30 ppb          7.666   1.54%
   QC value within limits for Sn 189.927  Recovery = 99.46%
Sr 421.552†            43420.8      495.53 µg/L         1.989      495.53 ppb          1.989   0.40%
   QC value within limits for Sr 421.552  Recovery = 99.11%
Ti 334.940†           262788.1      489.41 µg/L         4.335      489.41 ppb          4.335   0.89%
   QC value within limits for Ti 334.940  Recovery = 97.88%
Tl 190.801†              396.0      475.22 µg/L         9.013      475.22 ppb          9.013   1.90%
   QC value within limits for Tl 190.801  Recovery = 95.04%
U 367.007†              1765.7      454.88 µg/L        12.285      454.88 ppb         12.285   2.70%
   QC value within limits for U 367.007  Recovery = 90.98%
V 292.402†             70020.5      501.46 µg/L         8.924      501.46 ppb          8.924   1.78%
   QC value within limits for V 292.402  Recovery = 100.29%
Zn 213.857†            38691.8      489.88 µg/L         8.384      489.88 ppb          8.384   1.71%
   QC value within limits for Zn 213.857  Recovery = 97.98%
All analyte(s) passed QC.
```

Sequence No.: 23 **Autosampler Location: 109**
Sample ID: PQL **Date Collected: 11/6/2013 16:52:23**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21811.9	21811.9	99.0	%			16:53:13
1	Al 396.153Radial†	53.8	145.5	233.30	µg/L	233.30	ppb	16:53:13
1	Ca 317.933Radial†	383.2	304.6	207.33	µg/L	207.33	ppb	16:53:33
1	Fe 238.204 Radial†	62.9	35.3	120.44	µg/L	120.44	ppb	16:53:33
1	K 766.490 Radial†	742.4	97.2	120.46	µg/L	120.46	ppb	16:53:13
1	Mg 279.077 IEC†	49.7	45.9	324.68	µg/L	324.68	ppb	16:53:33
1	Na 589.592 Radial†	369.5	405.9	317.44	µg/L	317.44	ppb	16:53:13
1	Sr 421.552†	485.0	456.0	5.2029	µg/L	5.2029	ppb	16:53:13
1	Sc 361.383	1108477.4	1108477.4	87.984	%			16:55:11
1	Y 371.029	655201.7	655201.7	87.930	%			16:55:11
1	Ag 328.068†	1350.4	865.1	5.7516	µg/L	5.7516	ppb	16:55:13
1	As 188.979†	12.3	16.6	32.754	µg/L	32.754	ppb	16:55:33
1	B 249.677†	3568.9	3796.8	45.423	µg/L	45.423	ppb	16:55:13
1	Ba 233.527†	254.5	371.8	5.2378	µg/L	5.2378	ppb	16:55:33
1	Be 313.107†	3727.6	11105.9	4.8135	µg/L	4.8135	ppb	16:55:13
1	Cd 226.502†	232.5	373.8	5.8234	µg/L	5.8234	ppb	16:55:33
1	Co 228.616†	77.0	185.9	5.4756	µg/L	5.4756	ppb	16:55:33
1	Cr 267.716†	400.1	335.0	6.1013	µg/L	6.1013	ppb	16:55:33
1	Cu 324.752†	4775.6	1566.0	10.536	µg/L	10.536	ppb	16:55:13
1	Mn 257.610†	3600.9	3887.4	11.322	µg/L	11.322	ppb	16:55:33
1	Mo 202.031†	80.1	99.8	11.290	µg/L	11.290	ppb	16:55:33
1	Ni 231.604†	129.6	190.1	5.6708	µg/L	5.6708	ppb	16:55:33
1	P 214.914†	88.1	160.2	169.58	µg/L	169.58	ppb	16:55:33
1	Pb 220.353†	141.0	57.8	12.383	µg/L	12.383	ppb	16:55:33
1	S 181.975 Axial†	55.1	39.7	129.82	µg/L	129.82	ppb	16:55:33
1	Sb 206.836†	18.7	15.9	10.099	µg/L	10.099	ppb	16:55:33
1	Se 196.026†	31.5	24.6	33.6	µg/L	33.6	ppb	16:55:33
1	SiO2†	2894.9	1469.0	270.49	µg/L	270.49	ppb	16:55:33
1	Si 251.611†	3238.6	3267.8	96.050	µg/L	96.050	ppb	16:55:13
1	Sn 189.927†	21.4	26.2	10.684	µg/L	10.684	ppb	16:55:33
1	Ti 334.940†	3548.0	2447.8	4.5411	µg/L	4.5411	ppb	16:55:13
1	Tl 190.801†	7.6	24.9	30.141	µg/L	30.141	ppb	16:55:33
1	U 367.007†	442.5	187.9	50.828	µg/L	50.828	ppb	16:55:13
1	V 292.402†	883.0	641.3	4.7175	µg/L	4.7175	ppb	16:55:13
1	Zn 213.857†	1303.2	938.3	11.910	µg/L	11.910	ppb	16:55:33
2	Sc RADIAL	21620.7	21620.7	98.2	%			16:53:53
2	Al 396.153Radial†	40.7	132.6	212.67	µg/L	212.67	ppb	16:53:53
2	Ca 317.933Radial†	380.1	304.9	207.52	µg/L	207.52	ppb	16:54:13
2	Fe 238.204 Radial†	61.0	34.0	115.73	µg/L	115.73	ppb	16:54:13
2	K 766.490 Radial†	775.8	137.9	170.80	µg/L	170.80	ppb	16:53:53
2	Mg 279.077 IEC†	44.9	41.4	293.46	µg/L	293.46	ppb	16:54:13
2	Na 589.592 Radial†	358.9	398.4	311.56	µg/L	311.56	ppb	16:53:53
2	Sr 421.552†	474.1	449.3	5.1259	µg/L	5.1259	ppb	16:53:53
2	Sc 361.383	1190335.6	1190335.6	94.481	%			16:55:35
2	Y 371.029	705294.2	705294.2	94.653	%			16:55:35
2	Ag 328.068†	1469.1	885.2	5.8876	µg/L	5.8876	ppb	16:55:37
2	As 188.979†	10.9	14.0	27.783	µg/L	27.783	ppb	16:55:57
2	B 249.677†	4067.8	4046.0	48.431	µg/L	48.431	ppb	16:55:37
2	Ba 233.527†	270.1	368.5	5.1918	µg/L	5.1918	ppb	16:55:57
2	Be 313.107†	4517.1	11650.0	5.0494	µg/L	5.0494	ppb	16:55:37
2	Cd 226.502†	235.8	359.1	5.5947	µg/L	5.5947	ppb	16:55:57
2	Co 228.616†	71.3	173.9	5.1217	µg/L	5.1217	ppb	16:55:57
2	Cr 267.716†	363.0	264.4	4.8104	µg/L	4.8104	ppb	16:55:57
2	Cu 324.752†	4931.2	1357.4	9.1366	µg/L	9.1366	ppb	16:55:37
2	Mn 257.610†	3653.8	3661.9	10.665	µg/L	10.665	ppb	16:55:57
2	Mo 202.031†	71.4	84.4	9.5469	µg/L	9.5469	ppb	16:55:57
2	Ni 231.604†	121.9	171.9	5.1272	µg/L	5.1272	ppb	16:55:57
2	P 214.914†	85.7	150.8	159.64	µg/L	159.64	ppb	16:55:57
2	Pb 220.353†	149.9	56.2	12.044	µg/L	12.044	ppb	16:55:57

2	S 181.975 Axial†	56.7	37.1	121.14 µg/L	121.14 ppb	16:55:57
2	Sb 206.836†	25.4	21.6	13.667 µg/L	13.667 ppb	16:55:57
2	Se 196.026†	38.2	29.3	40.0 µg/L	40.0 ppb	16:55:57
2	SiO2†	2912.3	1261.1	232.20 µg/L	232.20 ppb	16:55:57
2	Si 251.611†	3497.7	3288.9	96.694 µg/L	96.694 ppb	16:55:37
2	Sn 189.927†	25.6	29.0	11.807 µg/L	11.807 ppb	16:55:57
2	Ti 334.940†	3755.5	2390.1	4.4354 µg/L	4.4354 ppb	16:55:37
2	Tl 190.801†	1.6	17.9	21.689 µg/L	21.689 ppb	16:55:57
2	U 367.007†	467.5	179.7	48.633 µg/L	48.633 ppb	16:55:37
2	V 292.402†	989.2	684.7	4.9980 µg/L	4.9980 ppb	16:55:37
2	Zn 213.857†	1335.6	870.7	11.055 µg/L	11.055 ppb	16:55:57
3	Sc RADIAL	21697.4	21697.4	98.5 %		16:54:33
3	Al 396.153Radial†	52.9	144.9	232.34 µg/L	232.34 ppb	16:54:33
3	Ca 317.933Radial†	376.0	299.4	203.77 µg/L	203.77 ppb	16:54:53
3	Fe 238.204 Radial†	57.8	30.5	103.85 µg/L	103.85 ppb	16:54:53
3	K 766.490 Radial†	735.7	94.4	117.00 µg/L	117.00 ppb	16:54:33
3	Mg 279.077 IEC†	46.7	43.1	305.37 µg/L	305.37 ppb	16:54:53
3	Na 589.592 Radial†	373.9	412.4	322.47 µg/L	322.47 ppb	16:54:33
3	Sr 421.552†	489.2	462.9	5.2814 µg/L	5.2814 ppb	16:54:33
3	Sc 361.383	1245268.5	1245268.5	98.841 %		16:55:59
3	Y 371.029	736244.7	736244.7	98.807 %		16:55:59
3	Ag 328.068†	1300.3	645.8	4.2873 µg/L	4.2873 ppb	16:56:02
3	As 188.979†	18.3	21.1	41.624 µg/L	41.624 ppb	16:56:22
3	B 249.677†	3996.3	3783.7	45.326 µg/L	45.326 ppb	16:56:02
3	Ba 233.527†	253.3	338.8	4.7718 µg/L	4.7718 ppb	16:56:22
3	Be 313.107†	4623.4	11546.7	5.0046 µg/L	5.0046 ppb	16:56:02
3	Cd 226.502†	234.4	346.6	5.4008 µg/L	5.4008 ppb	16:56:22
3	Co 228.616†	71.2	170.4	5.0202 µg/L	5.0202 ppb	16:56:22
3	Cr 267.716†	404.7	289.7	5.2744 µg/L	5.2744 ppb	16:56:22
3	Cu 324.752†	5170.5	1369.2	9.2128 µg/L	9.2128 ppb	16:56:02
3	Mn 257.610†	3636.5	3473.9	10.116 µg/L	10.116 ppb	16:56:22
3	Mo 202.031†	82.3	92.1	10.419 µg/L	10.419 ppb	16:56:22
3	Ni 231.604†	120.6	164.9	4.9175 µg/L	4.9175 ppb	16:56:22
3	P 214.914†	77.2	138.2	146.28 µg/L	146.28 ppb	16:56:22
3	Pb 220.353†	149.7	49.0	10.493 µg/L	10.493 ppb	16:56:22
3	S 181.975 Axial†	53.2	30.9	100.98 µg/L	100.98 ppb	16:56:22
3	Sb 206.836†	16.8	11.6	7.3894 µg/L	7.3894 ppb	16:56:22
3	Se 196.026†	32.3	21.6	29.5 µg/L	29.5 ppb	16:56:22
3	SiO2†	2906.2	1119.0	206.05 µg/L	206.05 ppb	16:56:22
3	Si 251.611†	3680.8	3310.8	97.324 µg/L	97.324 ppb	16:56:02
3	Sn 189.927†	26.4	28.5	11.625 µg/L	11.625 ppb	16:56:22
3	Ti 334.940†	3768.8	2228.3	4.1347 µg/L	4.1347 ppb	16:56:02
3	Tl 190.801†	4.5	20.8	25.159 µg/L	25.159 ppb	16:56:22
3	U 367.007†	480.1	170.7	46.204 µg/L	46.204 ppb	16:56:02
3	V 292.402†	874.3	522.3	3.8612 µg/L	3.8612 ppb	16:56:02
3	Zn 213.857†	1305.3	777.7	9.8699 µg/L	9.8699 ppb	16:56:22

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1181360.5	93.769	%	5.4637				5.83%
Sc RADIAL	21710.0	98.6	%	0.44				0.44%
Y 371.029	698913.5	93.797	%	5.4885				5.85%
Ag 328.068†	798.7	5.3088	µg/L	0.88732	5.3088	ppb	0.88732	16.71%
QC value within limits for Ag 328.068 Recovery = 106.18%								
Al 396.153Radial†	141.0	226.10	µg/L	11.640	226.10	ppb	11.640	5.15%
QC value within limits for Al 396.153Radial Recovery = 113.05%								
As 188.979†	17.2	34.054	µg/L	7.0119	34.054	ppb	7.0119	20.59%
QC value within limits for As 188.979 Recovery = 113.51%								
B 249.677†	3875.5	46.393	µg/L	1.7653	46.393	ppb	1.7653	3.81%
QC value within limits for B 249.677 Recovery = 92.79%								
Ba 233.527†	359.7	5.0671	µg/L	0.25684	5.0671	ppb	0.25684	5.07%
QC value within limits for Ba 233.527 Recovery = 101.34%								
Be 313.107†	11434.2	4.9559	µg/L	0.12527	4.9559	ppb	0.12527	2.53%
QC value within limits for Be 313.107 Recovery = 99.12%								
Ca 317.933Radial†	303.0	206.21	µg/L	2.115	206.21	ppb	2.115	1.03%
QC value within limits for Ca 317.933Radial Recovery = 103.10%								
Cd 226.502†	359.8	5.6063	µg/L	0.21150	5.6063	ppb	0.21150	3.77%
QC value within limits for Cd 226.502 Recovery = 112.13%								
Co 228.616†	176.7	5.2059	µg/L	0.23908	5.2059	ppb	0.23908	4.59%

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   QC value within limits for Co 228.616  Recovery = 104.12%
Cr 267.716†              296.4      5.3954 µg/L       0.65391      5.3954 ppb        0.65391  12.12%
   QC value within limits for Cr 267.716  Recovery = 107.91%
Cu 324.752†             1430.9      9.6285 µg/L       0.78695      9.6285 ppb        0.78695   8.17%
   QC value within limits for Cu 324.752  Recovery = 96.28%
Fe 238.204 Radial†        33.3      113.34 µg/L         8.550      113.34 ppb          8.550   7.54%
   QC value within limits for Fe 238.204 Radial  Recovery = 113.34%
K 766.490 Radial†        109.9      136.09 µg/L        30.113      136.09 ppb         30.113  22.13%
   QC value within limits for K 766.490 Radial  Recovery = 90.72%
Mg 279.077 IEC†           43.5      307.84 µg/L        15.757      307.84 ppb         15.757   5.12%
   QC value within limits for Mg 279.077 IEC  Recovery = 102.61%
Mn 257.610†             3674.4      10.701 µg/L        0.6033      10.701 ppb         0.6033   5.64%
   QC value within limits for Mn 257.610  Recovery = 107.01%
Mo 202.031†               92.1      10.419 µg/L        0.8718      10.419 ppb         0.8718   8.37%
   QC value within limits for Mo 202.031  Recovery = 104.19%
Na 589.592 Radial†       405.6      317.15 µg/L         5.461      317.15 ppb          5.461   1.72%
   QC value within limits for Na 589.592 Radial  Recovery = 105.72%
Ni 231.604†              175.6      5.2385 µg/L       0.38876      5.2385 ppb        0.38876   7.42%
   QC value within limits for Ni 231.604  Recovery = 104.77%
P 214.914†               149.7      158.50 µg/L        11.688      158.50 ppb         11.688   7.37%
   QC value within limits for P 214.914  Recovery = 105.67%
Pb 220.353†               54.3      11.640 µg/L        1.0073      11.640 ppb         1.0073   8.65%
   QC value within limits for Pb 220.353  Recovery = 116.40%
S 181.975 Axial†          35.9      117.31 µg/L        14.800      117.31 ppb         14.800  12.62%
   QC value within limits for S 181.975 Axial  Recovery = 117.31%
Sb 206.836†               16.4      10.385 µg/L        3.1485      10.385 ppb         3.1485  30.32%
   QC value within limits for Sb 206.836  Recovery = 103.85%
Se 196.026†               25.2        34.3 µg/L          5.30        34.3 ppb           5.30  15.44%
   QC value within limits for Se 196.026  Recovery = 114.47%
SiO2†                   1283.1      236.25 µg/L        32.406      236.25 ppb         32.406  13.72%
   QC value within limits for SiO2  Recovery = 110.91%
Si 251.611†             3289.2      96.689 µg/L        0.6374      96.689 ppb         0.6374   0.66%
   QC value within limits for Si 251.611  Recovery = 96.69%
Sn 189.927†               27.9      11.372 µg/L        0.6028      11.372 ppb         0.6028   5.30%
   QC value within limits for Sn 189.927  Recovery = 113.72%
Sr 421.552†              456.1      5.2034 µg/L       0.07774      5.2034 ppb        0.07774   1.49%
   QC value within limits for Sr 421.552  Recovery = 104.07%
Ti 334.940†             2355.4      4.3704 µg/L       0.21086      4.3704 ppb        0.21086   4.82%
   QC value within limits for Ti 334.940  Recovery = 87.41%
Tl 190.801†               21.2      25.663 µg/L        4.2487      25.663 ppb         4.2487  16.56%
   QC value within limits for Tl 190.801  Recovery = 128.31%
U 367.007†               179.4      48.555 µg/L        2.3128      48.555 ppb         2.3128   4.76%
   QC value within limits for U 367.007  Recovery = 97.11%
V 292.402†               616.1      4.5256 µg/L       0.59221      4.5256 ppb        0.59221  13.09%
   QC value within limits for V 292.402  Recovery = 90.51%
Zn 213.857†              862.2      10.945 µg/L        1.0247      10.945 ppb         1.0247   9.36%
   QC value within limits for Zn 213.857  Recovery = 109.45%
All analyte(s) passed QC.
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Sequence No.: 24 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 16:56:30**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21898.5	21898.5	99.4	%			16:57:21
1	Al 396.153Radial†	-86.7	4.0	6.4153	µg/L	6.4153	ppb	16:57:21
1	Ca 317.933Radial†	90.4	8.7	5.9076	µg/L	5.9076	ppb	16:57:41
1	Fe 238.204 Radial†	29.2	1.3	4.2759	µg/L	4.2759	ppb	16:57:41
1	K 766.490 Radial†	611.2	-37.7	-46.663	µg/L	-46.663	ppb	16:57:21
1	Mg 279.077 IEC†	-0.6	-4.9	-34.646	µg/L	-34.646	ppb	16:57:41
1	Na 589.592 Radial†	-40.6	-7.9	-6.1911	µg/L	-6.1911	ppb	16:57:21
1	Sr 421.552†	37.6	4.2	0.0475	µg/L	0.0475	ppb	16:57:21
1	Sc 361.383	1255172.6	1255172.6	99.627	%			16:59:18
1	Y 371.029	742399.8	742399.8	99.633	%			16:59:18
1	Ag 328.068†	426.1	-242.0	-1.6211	µg/L	-1.6211	ppb	16:59:20
1	As 188.979†	-3.6	-1.1	-2.0786	µg/L	-2.0786	ppb	16:59:40
1	B 249.677†	322.4	64.2	0.7790	µg/L	0.7790	ppb	16:59:40
1	Ba 233.527†	-75.6	6.7	0.0937	µg/L	0.0937	ppb	16:59:40
1	Be 313.107†	-6756.9	87.0	0.0377	µg/L	0.0377	ppb	16:59:20
1	Cd 226.502†	-102.9	6.2	0.0970	µg/L	0.0970	ppb	16:59:40
1	Co 228.616†	-96.7	1.3	0.0408	µg/L	0.0408	ppb	16:59:40
1	Cr 267.716†	114.2	-5.1	-0.0949	µg/L	-0.0949	ppb	16:59:40
1	Cu 324.752†	3801.0	-46.6	-0.3104	µg/L	-0.3104	ppb	16:59:20
1	Mn 257.610†	205.4	0.9	0.0041	µg/L	0.0041	ppb	16:59:40
1	Mo 202.031†	-3.9	4.9	0.5578	µg/L	0.5578	ppb	16:59:40
1	Ni 231.604†	-28.8	13.9	0.4154	µg/L	0.4154	ppb	16:59:40
1	P 214.914†	-71.4	-11.6	-12.336	µg/L	-12.336	ppb	16:59:40
1	Pb 220.353†	98.7	-3.4	-0.7286	µg/L	-0.7286	ppb	16:59:40
1	S 181.975 Axial†	23.3	0.5	1.6469	µg/L	1.6469	ppb	16:59:40
1	Sb 206.836†	3.0	-2.3	-1.4398	µg/L	-1.4398	ppb	16:59:40
1	Se 196.026†	15.7	4.7	6.37	µg/L	6.37	ppb	16:59:40
1	SiO2†	1764.9	-49.8	-9.1646	µg/L	-9.1646	ppb	16:59:40
1	Si 251.611†	400.4	-11.2	-0.3368	µg/L	-0.3368	ppb	16:59:40
1	Sn 189.927†	9.0	10.9	4.4225	µg/L	4.4225	ppb	16:59:40
1	Ti 334.940†	1256.9	-323.2	-0.6034	µg/L	-0.6034	ppb	16:59:20
1	Tl 190.801†	-10.4	5.8	7.0178	µg/L	7.0178	ppb	16:59:40
1	U 367.007†	327.2	13.3	3.6398	µg/L	3.6398	ppb	16:59:20
1	V 292.402†	359.9	-1.0	0.0027	µg/L	0.0027	ppb	16:59:20
1	Zn 213.857†	536.1	-4.8	-0.0638	µg/L	-0.0638	ppb	16:59:40
2	Sc RADIAL	21527.2	21527.2	97.8	%			16:58:01
2	Al 396.153Radial†	-86.1	3.0	4.8931	µg/L	4.8931	ppb	16:58:01
2	Ca 317.933Radial†	80.1	-0.3	-0.1916	µg/L	-0.1916	ppb	16:58:21
2	Fe 238.204 Radial†	29.2	1.7	5.7705	µg/L	5.7705	ppb	16:58:21
2	K 766.490 Radial†	623.9	-14.0	-17.378	µg/L	-17.378	ppb	16:58:01
2	Mg 279.077 IEC†	6.4	2.3	16.203	µg/L	16.203	ppb	16:58:21
2	Na 589.592 Radial†	-27.4	4.8	3.7818	µg/L	3.7818	ppb	16:58:01
2	Sr 421.552†	47.5	14.9	0.1702	µg/L	0.1702	ppb	16:58:01
2	Sc 361.383	1255401.3	1255401.3	99.646	%			16:59:42
2	Y 371.029	742469.8	742469.8	99.642	%			16:59:42
2	Ag 328.068†	568.3	-99.3	-0.6597	µg/L	-0.6597	ppb	16:59:44
2	As 188.979†	0.6	3.2	6.2714	µg/L	6.2714	ppb	17:00:04
2	B 249.677†	329.5	71.2	0.8462	µg/L	0.8462	ppb	17:00:04
2	Ba 233.527†	-84.7	-2.5	-0.0353	µg/L	-0.0353	ppb	17:00:04
2	Be 313.107†	-6727.2	118.0	0.0511	µg/L	0.0511	ppb	16:59:44
2	Cd 226.502†	-93.3	15.9	0.2468	µg/L	0.2468	ppb	17:00:04
2	Co 228.616†	-93.1	4.9	0.1461	µg/L	0.1461	ppb	17:00:04
2	Cr 267.716†	117.9	-1.4	-0.0214	µg/L	-0.0214	ppb	17:00:04
2	Cu 324.752†	3906.7	58.8	0.3920	µg/L	0.3920	ppb	16:59:44
2	Mn 257.610†	208.3	3.8	0.0106	µg/L	0.0106	ppb	17:00:04
2	Mo 202.031†	-13.6	-4.8	-0.5450	µg/L	-0.5450	ppb	17:00:04
2	Ni 231.604†	-60.2	-17.6	-0.5257	µg/L	-0.5257	ppb	17:00:04
2	P 214.914†	-62.9	-3.1	-3.2847	µg/L	-3.2847	ppb	17:00:04
2	Pb 220.353†	102.6	0.5	0.1205	µg/L	0.1205	ppb	17:00:04

2	S 181.975 Axial†	20.1	-2.8	-9.0247 µg/L	-9.0247 ppb	17:00:04
2	Sb 206.836†	2.1	-3.3	-2.0673 µg/L	-2.0673 ppb	17:00:04
2	Se 196.026†	8.0	-3.1	-4.24 µg/L	-4.24 ppb	17:00:04
2	SiO2†	1789.0	-25.9	-4.7625 µg/L	-4.7625 ppb	17:00:04
2	Si 251.611†	414.1	2.5	0.0804 µg/L	0.0804 ppb	17:00:04
2	Sn 189.927†	5.5	7.4	3.0117 µg/L	3.0117 ppb	17:00:04
2	Ti 334.940†	1293.8	-286.3	-0.5304 µg/L	-0.5304 ppb	16:59:44
2	Tl 190.801†	-21.6	-5.4	-6.5432 µg/L	-6.5432 ppb	17:00:04
2	U 367.007†	291.5	-22.5	-6.2102 µg/L	-6.2102 ppb	16:59:44
2	V 292.402†	326.1	-35.1	-0.2564 µg/L	-0.2564 ppb	16:59:44
2	Zn 213.857†	546.7	5.7	0.0738 µg/L	0.0738 ppb	17:00:04
3	Sc RADIAL	21769.7	21769.7	98.9 %		16:58:41
3	Al 396.153Radial†	-88.3	1.8	2.9360 µg/L	2.9360 ppb	16:58:41
3	Ca 317.933Radial†	93.0	11.9	8.0692 µg/L	8.0692 ppb	16:59:01
3	Fe 238.204 Radial†	29.1	1.3	4.3686 µg/L	4.3686 ppb	16:59:01
3	K 766.490 Radial†	638.4	-6.5	-8.0984 µg/L	-8.0984 ppb	16:58:41
3	Mg 279.077 IEC†	4.8	0.6	4.2182 µg/L	4.2182 ppb	16:59:01
3	Na 589.592 Radial†	-26.5	6.1	4.7438 µg/L	4.7438 ppb	16:58:41
3	Sr 421.552†	35.1	1.9	0.0215 µg/L	0.0215 ppb	16:58:41
3	Sc 361.383	1253632.4	1253632.4	99.505 %		17:00:07
3	Y 371.029	741544.1	741544.1	99.518 %		17:00:07
3	Ag 328.068†	541.9	-125.1	-0.8241 µg/L	-0.8241 ppb	17:00:09
3	As 188.979†	1.1	3.6	7.1748 µg/L	7.1748 ppb	17:00:29
3	B 249.677†	327.7	69.9	0.8316 µg/L	0.8316 ppb	17:00:29
3	Ba 233.527†	-70.0	12.2	0.1701 µg/L	0.1701 ppb	17:00:29
3	Be 313.107†	-6716.0	119.7	0.0519 µg/L	0.0519 ppb	17:00:09
3	Cd 226.502†	-89.8	19.3	0.3003 µg/L	0.3003 ppb	17:00:29
3	Co 228.616†	-98.1	-0.1	-0.0036 µg/L	-0.0036 ppb	17:00:29
3	Cr 267.716†	122.9	3.8	0.0807 µg/L	0.0807 ppb	17:00:29
3	Cu 324.752†	3793.1	-49.9	-0.3411 µg/L	-0.3411 ppb	17:00:09
3	Mn 257.610†	195.1	-9.2	-0.0269 µg/L	-0.0269 ppb	17:00:29
3	Mo 202.031†	-15.2	-6.5	-0.7285 µg/L	-0.7285 ppb	17:00:29
3	Ni 231.604†	-49.1	-6.5	-0.1941 µg/L	-0.1941 ppb	17:00:29
3	P 214.914†	-60.8	-1.1	-1.1735 µg/L	-1.1735 ppb	17:00:29
3	Pb 220.353†	102.6	0.7	0.1627 µg/L	0.1627 ppb	17:00:29
3	S 181.975 Axial†	30.1	7.3	23.842 µg/L	23.842 ppb	17:00:29
3	Sb 206.836†	6.5	1.2	0.7745 µg/L	0.7745 ppb	17:00:29
3	Se 196.026†	7.9	-3.2	-4.37 µg/L	-4.37 ppb	17:00:29
3	SiO2†	1783.4	-29.0	-5.3400 µg/L	-5.3400 ppb	17:00:29
3	Si 251.611†	394.0	-17.1	-0.4943 µg/L	-0.4943 ppb	17:00:29
3	Sn 189.927†	8.9	10.8	4.4073 µg/L	4.4073 ppb	17:00:29
3	Ti 334.940†	1257.8	-320.7	-0.5891 µg/L	-0.5891 ppb	17:00:09
3	Tl 190.801†	-12.7	3.5	4.2238 µg/L	4.2238 ppb	17:00:29
3	U 367.007†	256.2	-57.6	-15.823 µg/L	-15.823 ppb	17:00:09
3	V 292.402†	303.8	-57.0	-0.4186 µg/L	-0.4186 ppb	17:00:09
3	Zn 213.857†	531.3	-8.9	-0.1137 µg/L	-0.1137 ppb	17:00:29

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1254735.4	99.593	%	0.0764				0.08%
Sc RADIAL	21731.8	98.7	%	0.86				0.87%
Y 371.029	742137.9	99.598	%	0.0692				0.07%
Ag 328.068†	-155.5	-1.0349	µg/L	0.51421	-1.0349	ppb	0.51421	49.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	3.0	4.7482	µg/L	1.74414	4.7482	ppb	1.74414	36.73%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	1.9	3.7892	µg/L	5.10170	3.7892	ppb	5.10170	134.64%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	68.4	0.8189	µg/L	0.03535	0.8189	ppb	0.03535	4.32%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.5	0.0762	µg/L	0.10381	0.0762	ppb	0.10381	136.22%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	108.2	0.0469	µg/L	0.00799	0.0469	ppb	0.00799	17.03%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.7	4.5950	µg/L	4.28396	4.5950	ppb	4.28396	93.23%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	13.8	0.2147	µg/L	0.10536	0.2147	ppb	0.10536	49.07%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	2.0	0.0611	µg/L	0.07688	0.0611	ppb	0.07688	125.88%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -0.9     -0.0119 µg/L       0.08816     -0.0119 ppb        0.08816 742.49%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -12.6     -0.0865 µg/L       0.41465     -0.0865 ppb        0.41465 479.52%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          1.4      4.8050 µg/L       0.83741      4.8050 ppb        0.83741  17.43%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -19.4     -24.047 µg/L       20.1286     -24.047 ppb        20.1286  83.71%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -0.7     -4.7414 µg/L      26.58208     -4.7414 ppb       26.58208 560.64%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                -1.5     -0.0041 µg/L       0.02004     -0.0041 ppb        0.02004 492.19%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -2.1     -0.2385 µg/L       0.69574     -0.2385 ppb        0.69574 291.67%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          1.0      0.7782 µg/L       6.05471      0.7782 ppb        6.05471 778.06%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -3.4     -0.1015 µg/L       0.47732     -0.1015 ppb        0.47732 470.32%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -5.3     -5.5982 µg/L       5.93006     -5.5982 ppb        5.93006 105.93%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -0.7     -0.1485 µg/L       0.50286     -0.1485 ppb        0.50286 338.70%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            1.7      5.4882 µg/L      16.76683      5.4882 ppb       16.76683 305.51%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -1.4     -0.9109 µg/L       1.49293     -0.9109 ppb        1.49293 163.90%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -0.5      -0.744 µg/L        6.1612      -0.744 ppb         6.1612 828.29%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     -34.9     -6.4223 µg/L       2.39234     -6.4223 ppb        2.39234  37.25%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                -8.6     -0.2502 µg/L       0.29696     -0.2502 ppb        0.29696 118.67%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 9.7      3.9472 µg/L       0.81020      3.9472 ppb        0.81020  20.53%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 7.0      0.0797 µg/L       0.07939      0.0797 ppb        0.07939  99.56%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -310.1     -0.5743 µg/L       0.03868     -0.5743 ppb        0.03868   6.74%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.3      1.5662 µg/L       7.16049      1.5662 ppb        7.16049 457.20%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -22.3     -6.1313 µg/L       9.73184     -6.1313 ppb        9.73184 158.72%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -31.0     -0.2241 µg/L       0.21250     -0.2241 ppb        0.21250  94.82%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                -2.7     -0.0345 µg/L       0.09712     -0.0345 ppb        0.09712 281.23%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 26 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 17:04:43**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22882.7	22882.7	104	%			17:05:14
1	Al 396.153Radial†	3163.0	3135.2	5024.9	µg/L	5024.9	ppb	17:05:34
1	Ca 317.933Radial†	7450.1	7087.7	4824.7	µg/L	4824.7	ppb	17:05:34
1	Fe 238.204 Radial†	1540.9	1454.8	4949.3	µg/L	4949.3	ppb	17:05:34
1	K 766.490 Radial†	4781.7	3949.5	4897.3	µg/L	4897.3	ppb	17:05:14
1	Mg 279.077 IEC†	743.8	711.6	5038.3	µg/L	5038.3	ppb	17:05:34
1	Na 589.592 Radial†	13829.4	13342.2	10433	µg/L	10433	ppb	17:05:14
1	Sr 421.552†	43312.6	41650.0	475.32	µg/L	475.32	ppb	17:05:14
1	Sc 361.383	1292208.8	1292208.8	102.57	%			17:06:36
1	Y 371.029	748000.4	748000.4	100.38	%			17:06:36
1	Ag 328.068†	74878.8	72335.0	484.73	µg/L	484.73	ppb	17:06:38
1	As 188.979†	232.6	229.3	458.94	µg/L	458.94	ppb	17:06:58
1	B 249.677†	40665.8	39388.5	457.32	µg/L	457.32	ppb	17:06:38
1	Ba 233.527†	34966.9	34174.3	481.66	µg/L	481.66	ppb	17:06:38
1	Be 313.107†	1156313.5	1134242.1	491.61	µg/L	491.61	ppb	17:06:36
1	Cd 226.502†	31455.1	30777.3	480.16	µg/L	480.16	ppb	17:06:38
1	Co 228.616†	16669.8	16351.0	480.99	µg/L	480.99	ppb	17:06:38
1	Cr 267.716†	26876.8	26084.4	477.56	µg/L	477.56	ppb	17:06:38
1	Cu 324.752†	77127.2	71335.0	479.10	µg/L	479.10	ppb	17:06:38
1	Mn 257.610†	169857.2	165400.7	482.03	µg/L	482.03	ppb	17:06:38
1	Mo 202.031†	4325.7	4226.3	477.67	µg/L	477.67	ppb	17:06:58
1	Ni 231.604†	16632.7	16259.3	484.97	µg/L	484.97	ppb	17:06:38
1	P 214.914†	2290.9	2293.6	2418.4	µg/L	2418.4	ppb	17:06:58
1	Pb 220.353†	2376.5	2214.6	476.01	µg/L	476.01	ppb	17:06:58
1	S 181.975 Axial†	317.1	286.2	932.58	µg/L	932.58	ppb	17:06:58
1	Sb 206.836†	787.0	761.9	481.64	µg/L	481.64	ppb	17:06:58
1	Se 196.026†	370.6	350.2	478	µg/L	478	ppb	17:06:58
1	SiO2†	30461.9	27878.2	5140.3	µg/L	5140.3	ppb	17:06:38
1	Si 251.611†	84315.7	81792.3	2401.7	µg/L	2401.7	ppb	17:06:38
1	Sn 189.927†	1229.8	1200.9	488.95	µg/L	488.95	ppb	17:06:58
1	Ti 334.940†	265690.3	257455.8	479.49	µg/L	479.49	ppb	17:06:38
1	Tl 190.801†	376.8	383.6	460.33	µg/L	460.33	ppb	17:06:58
1	U 367.007†	1997.8	1632.8	419.38	µg/L	419.38	ppb	17:06:38
1	V 292.402†	69813.3	67703.7	484.92	µg/L	484.92	ppb	17:06:38
1	Zn 213.857†	39034.1	37514.2	474.97	µg/L	474.97	ppb	17:06:38
2	Sc RADIAL	22480.2	22480.2	102	%			17:05:36
2	Al 396.153Radial†	3172.2	3198.7	5126.7	µg/L	5126.7	ppb	17:05:56
2	Ca 317.933Radial†	7483.0	7248.3	4934.1	µg/L	4934.1	ppb	17:05:56
2	Fe 238.204 Radial†	1540.6	1481.0	5038.1	µg/L	5038.1	ppb	17:05:56
2	K 766.490 Radial†	4581.6	3835.9	4757.0	µg/L	4757.0	ppb	17:05:36
2	Mg 279.077 IEC†	747.8	728.2	5156.5	µg/L	5156.5	ppb	17:05:56
2	Na 589.592 Radial†	13341.0	13102.1	10246	µg/L	10246	ppb	17:05:36
2	Sr 421.552†	42460.5	41561.6	474.31	µg/L	474.31	ppb	17:05:36
2	Sc 361.383	1266498.1	1266498.1	100.53	%			17:07:00
2	Y 371.029	733535.1	733535.1	98.443	%			17:07:00
2	Ag 328.068†	75558.8	74493.5	499.18	µg/L	499.18	ppb	17:07:02
2	As 188.979†	239.9	241.2	482.63	µg/L	482.63	ppb	17:07:23
2	B 249.677†	41277.1	40801.5	474.19	µg/L	474.19	ppb	17:07:02
2	Ba 233.527†	35502.4	35399.1	498.93	µg/L	498.93	ppb	17:07:02
2	Be 313.107†	1104143.1	1105231.3	479.03	µg/L	479.03	ppb	17:07:00
2	Cd 226.502†	31977.0	31919.1	497.98	µg/L	497.98	ppb	17:07:02
2	Co 228.616†	16951.2	16960.9	498.93	µg/L	498.93	ppb	17:07:02
2	Cr 267.716†	27361.8	27098.8	496.12	µg/L	496.12	ppb	17:07:02
2	Cu 324.752†	78204.0	73932.7	496.55	µg/L	496.55	ppb	17:07:02
2	Mn 257.610†	172086.1	170979.9	498.29	µg/L	498.29	ppb	17:07:02
2	Mo 202.031†	4351.1	4337.2	490.19	µg/L	490.19	ppb	17:07:23
2	Ni 231.604†	16866.7	16821.2	501.74	µg/L	501.74	ppb	17:07:02
2	P 214.914†	2325.4	2373.3	2502.5	µg/L	2502.5	ppb	17:07:23
2	Pb 220.353†	2411.5	2296.5	493.57	µg/L	493.57	ppb	17:07:23

2	S 181.975 Axial†	328.4	303.7	989.64 µg/L	989.64 ppb	17:07:23
2	Sb 206.836†	795.4	785.9	496.75 µg/L	496.75 ppb	17:07:23
2	Se 196.026†	377.3	364.3	497 µg/L	497 ppb	17:07:23
2	SiO2†	30765.6	28783.3	5307.2 µg/L	5307.2 ppb	17:07:02
2	Si 251.611†	85334.2	84474.2	2480.5 µg/L	2480.5 ppb	17:07:02
2	Sn 189.927†	1242.9	1238.3	504.17 µg/L	504.17 ppb	17:07:23
2	Ti 334.940†	269502.4	266506.6	496.33 µg/L	496.33 ppb	17:07:02
2	Tl 190.801†	377.0	391.2	469.39 µg/L	469.39 ppb	17:07:23
2	U 367.007†	2109.2	1783.1	460.05 µg/L	460.05 ppb	17:07:02
2	V 292.402†	70861.2	70127.9	502.23 µg/L	502.23 ppb	17:07:02
2	Zn 213.857†	39363.1	38614.1	488.88 µg/L	488.88 ppb	17:07:02
3	Sc RADIAL	22173.4	22173.4	101 %		17:05:58
3	Al 396.153Radial†	3195.6	3265.0	5232.9 µg/L	5232.9 ppb	17:06:18
3	Ca 317.933Radial†	7490.4	7357.1	5008.1 µg/L	5008.1 ppb	17:06:18
3	Fe 238.204 Radial†	1552.6	1513.9	5150.0 µg/L	5150.0 ppb	17:06:18
3	K 766.490 Radial†	4709.4	4024.9	4991.0 µg/L	4991.0 ppb	17:05:58
3	Mg 279.077 IEC†	745.7	736.4	5214.0 µg/L	5214.0 ppb	17:06:18
3	Na 589.592 Radial†	13612.4	13552.4	10598 µg/L	10598 ppb	17:05:58
3	Sr 421.552†	43447.6	43117.4	492.07 µg/L	492.07 ppb	17:05:58
3	Sc 361.383	1252637.7	1252637.7	99.426 %		17:07:25
3	Y 371.029	725019.1	725019.1	97.300 %		17:07:25
3	Ag 328.068†	75608.2	75374.8	505.10 µg/L	505.10 ppb	17:07:27
3	As 188.979†	237.8	241.7	483.69 µg/L	483.69 ppb	17:07:47
3	B 249.677†	41280.6	41259.4	479.23 µg/L	479.23 ppb	17:07:27
3	Ba 233.527†	35308.5	35594.9	501.69 µg/L	501.69 ppb	17:07:27
3	Be 313.107†	1131731.4	1145132.1	496.33 µg/L	496.33 ppb	17:07:25
3	Cd 226.502†	31845.0	32138.3	501.39 µg/L	501.39 ppb	17:07:27
3	Co 228.616†	16968.0	17164.4	504.91 µg/L	504.91 ppb	17:07:27
3	Cr 267.716†	27386.7	27425.1	502.10 µg/L	502.10 ppb	17:07:27
3	Cu 324.752†	78417.1	75007.8	503.77 µg/L	503.77 ppb	17:07:27
3	Mn 257.610†	171873.3	172660.0	503.19 µg/L	503.19 ppb	17:07:27
3	Mo 202.031†	4357.1	4391.1	496.29 µg/L	496.29 ppb	17:07:47
3	Ni 231.604†	16848.2	16988.3	506.72 µg/L	506.72 ppb	17:07:27
3	P 214.914†	2315.6	2389.0	2519.0 µg/L	2519.0 ppb	17:07:47
3	Pb 220.353†	2416.3	2327.8	500.33 µg/L	500.33 ppb	17:07:47
3	S 181.975 Axial†	328.1	307.1	1000.5 µg/L	1000.5 ppb	17:07:47
3	Sb 206.836†	796.6	795.9	503.04 µg/L	503.04 ppb	17:07:47
3	Se 196.026†	374.0	365.1	499 µg/L	499 ppb	17:07:47
3	SiO2†	30784.7	29141.1	5373.2 µg/L	5373.2 ppb	17:07:27
3	Si 251.611†	85462.4	85542.5	2511.9 µg/L	2511.9 ppb	17:07:27
3	Sn 189.927†	1232.3	1241.3	505.41 µg/L	505.41 ppb	17:07:47
3	Ti 334.940†	269924.2	269897.3	502.65 µg/L	502.65 ppb	17:07:27
3	Tl 190.801†	388.2	406.7	488.10 µg/L	488.10 ppb	17:07:47
3	U 367.007†	2044.4	1741.2	447.95 µg/L	447.95 ppb	17:07:27
3	V 292.402†	70884.1	70930.9	507.98 µg/L	507.98 ppb	17:07:27
3	Zn 213.857†	39641.4	39327.2	497.93 µg/L	497.93 ppb	17:07:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1270448.2	100.84	%	1.594				1.58%
Sc RADIAL	22512.1	102	%	1.6				1.58%
Y 371.029	735518.2	98.709	%	1.5592				1.58%
Ag 328.068†	74067.8	496.34	µg/L	10.477	496.34	ppb	10.477	2.11%
QC value within limits for Ag 328.068 Recovery = 99.27%								
Al 396.153Radial†	3199.6	5128.2	µg/L	104.03	5128.2	ppb	104.03	2.03%
QC value within limits for Al 396.153Radial Recovery = 102.56%								
As 188.979†	237.4	475.09	µg/L	13.994	475.09	ppb	13.994	2.95%
QC value within limits for As 188.979 Recovery = 95.02%								
B 249.677†	40483.1	470.25	µg/L	11.475	470.25	ppb	11.475	2.44%
QC value within limits for B 249.677 Recovery = 94.05%								
Ba 233.527†	35056.1	494.09	µg/L	10.855	494.09	ppb	10.855	2.20%
QC value within limits for Ba 233.527 Recovery = 98.82%								
Be 313.107†	1128201.8	488.99	µg/L	8.939	488.99	ppb	8.939	1.83%
QC value within limits for Be 313.107 Recovery = 97.80%								
Ca 317.933Radial†	7231.0	4922.3	µg/L	92.26	4922.3	ppb	92.26	1.87%
QC value within limits for Ca 317.933Radial Recovery = 98.45%								
Cd 226.502†	31611.6	493.18	µg/L	11.404	493.18	ppb	11.404	2.31%
QC value within limits for Cd 226.502 Recovery = 98.64%								
Co 228.616†	16825.4	494.94	µg/L	12.449	494.94	ppb	12.449	2.52%

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   QC value within limits for Co 228.616  Recovery = 98.99%
Cr 267.716†            26869.4      491.93 µg/L        12.795      491.93 ppb         12.795   2.60%
   QC value within limits for Cr 267.716  Recovery = 98.39%
Cu 324.752†            73425.2      493.14 µg/L        12.681      493.14 ppb         12.681   2.57%
   QC value within limits for Cu 324.752  Recovery = 98.63%
Fe 238.204 Radial†      1483.3      5045.8 µg/L        100.61      5045.8 ppb         100.61   1.99%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.92%
K 766.490 Radial†       3936.8      4881.8 µg/L        117.76      4881.8 ppb         117.76   2.41%
   QC value within limits for K 766.490 Radial  Recovery = 97.64%
Mg 279.077 IEC†          725.4      5136.3 µg/L         89.56      5136.3 ppb          89.56   1.74%
   QC value within limits for Mg 279.077 IEC  Recovery = 102.73%
Mn 257.610†           169680.2      494.50 µg/L        11.075      494.50 ppb         11.075   2.24%
   QC value within limits for Mn 257.610  Recovery = 98.90%
Mo 202.031†             4318.2      488.05 µg/L         9.496      488.05 ppb          9.496   1.95%
   QC value within limits for Mo 202.031  Recovery = 97.61%
Na 589.592 Radial†     13332.2       10426 µg/L         176.2       10426 ppb          176.2   1.69%
   QC value within limits for Na 589.592 Radial  Recovery = 104.26%
Ni 231.604†            16689.6      497.81 µg/L        11.392      497.81 ppb         11.392   2.29%
   QC value within limits for Ni 231.604  Recovery = 99.56%
P 214.914†              2352.0      2480.0 µg/L         53.97      2480.0 ppb          53.97   2.18%
   QC value within limits for P 214.914  Recovery = 99.20%
Pb 220.353†             2279.6      489.97 µg/L        12.552      489.97 ppb         12.552   2.56%
   QC value within limits for Pb 220.353  Recovery = 97.99%
S 181.975 Axial†         299.0      974.25 µg/L        36.495      974.25 ppb         36.495   3.75%
   QC value within limits for S 181.975 Axial  Recovery = 97.43%
Sb 206.836†              781.3      493.81 µg/L        10.999      493.81 ppb         10.999   2.23%
   QC value within limits for Sb 206.836  Recovery = 98.76%
Se 196.026†              359.8         491 µg/L          11.4         491 ppb           11.4   2.33%
   QC value within limits for Se 196.026  Recovery = 98.28%
SiO2†                  28600.9      5273.5 µg/L        120.05      5273.5 ppb         120.05   2.28%
   QC value within limits for SiO2  Recovery = 98.62%
Si 251.611†            83936.3      2464.7 µg/L         56.75      2464.7 ppb          56.75   2.30%
   QC value within limits for Si 251.611  Recovery = 98.59%
Sn 189.927†             1226.8      499.51 µg/L         9.165      499.51 ppb          9.165   1.83%
   QC value within limits for Sn 189.927  Recovery = 99.90%
Sr 421.552†            42109.7      480.57 µg/L         9.973      480.57 ppb          9.973   2.08%
   QC value within limits for Sr 421.552  Recovery = 96.11%
Ti 334.940†           264619.9      492.82 µg/L        11.973      492.82 ppb         11.973   2.43%
   QC value within limits for Ti 334.940  Recovery = 98.56%
Tl 190.801†              393.9      472.60 µg/L        14.161      472.60 ppb         14.161   3.00%
   QC value within limits for Tl 190.801  Recovery = 94.52%
U 367.007†              1719.0      442.46 µg/L        20.879      442.46 ppb         20.879   4.72%
   QC value less than the lower limit for U 367.007  Recovery = 88.49%
V 292.402†             69587.5      498.38 µg/L        12.006      498.38 ppb         12.006   2.41%
   QC value within limits for V 292.402  Recovery = 99.68%
Zn 213.857†            38485.2      487.26 µg/L        11.569      487.26 ppb         11.569   2.37%
   QC value within limits for Zn 213.857  Recovery = 97.45%
QC Failed.  Continue with analysis.
```

Sequence No.: 27 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 17:07:55**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21989.9	21989.9	99.9	%			17:08:42
1	Al 396.153Radial†	-86.5	4.5	7.2038	µg/L	7.2038	ppb	17:08:42
1	Ca 317.933Radial†	87.7	5.5	3.7672	µg/L	3.7672	ppb	17:09:02
1	Fe 238.204 Radial†	31.3	3.2	10.958	µg/L	10.958	ppb	17:09:02
1	K 766.490 Radial†	648.5	-2.9	-3.5644	µg/L	-3.5644	ppb	17:08:42
1	Mg 279.077 IEC†	3.2	-1.1	-7.9344	µg/L	-7.9344	ppb	17:09:02
1	Na 589.592 Radial†	-46.3	-13.5	-10.564	µg/L	-10.564	ppb	17:08:42
1	Sr 421.552†	31.7	-1.9	-0.0220	µg/L	-0.0220	ppb	17:08:42
1	Sc 361.383	1256462.5	1256462.5	99.730	%			17:10:40
1	Y 371.029	741973.3	741973.3	99.575	%			17:10:40
1	Ag 328.068†	613.3	-54.7	-0.3714	µg/L	-0.3714	ppb	17:10:42
1	As 188.979†	-7.6	-5.1	-10.095	µg/L	-10.095	ppb	17:11:02
1	B 249.677†	332.5	73.9	0.8536	µg/L	0.8536	ppb	17:11:02
1	Ba 233.527†	-97.2	-14.9	-0.2115	µg/L	-0.2115	ppb	17:11:02
1	Be 313.107†	-6971.6	-121.3	-0.0526	µg/L	-0.0526	ppb	17:10:42
1	Cd 226.502†	-97.7	11.5	0.1786	µg/L	0.1786	ppb	17:11:02
1	Co 228.616†	-97.8	0.4	0.0113	µg/L	0.0113	ppb	17:11:02
1	Cr 267.716†	136.9	17.5	0.3189	µg/L	0.3189	ppb	17:11:02
1	Cu 324.752†	3971.1	120.0	0.8074	µg/L	0.8074	ppb	17:10:42
1	Mn 257.610†	211.3	6.6	0.0197	µg/L	0.0197	ppb	17:11:02
1	Mo 202.031†	-10.6	-1.8	-0.2030	µg/L	-0.2030	ppb	17:11:02
1	Ni 231.604†	-34.0	8.8	0.2621	µg/L	0.2621	ppb	17:11:02
1	P 214.914†	-82.8	-23.0	-24.430	µg/L	-24.430	ppb	17:11:02
1	Pb 220.353†	97.4	-4.8	-1.0260	µg/L	-1.0260	ppb	17:11:02
1	S 181.975 Axial†	24.1	1.3	4.1892	µg/L	4.1892	ppb	17:11:02
1	Sb 206.836†	6.9	1.6	0.9738	µg/L	0.9738	ppb	17:11:02
1	Se 196.026†	11.6	0.5	0.721	µg/L	0.721	ppb	17:11:02
1	SiO2†	1828.4	12.1	2.2279	µg/L	2.2279	ppb	17:11:02
1	Si 251.611†	402.4	-9.6	-0.2785	µg/L	-0.2785	ppb	17:11:02
1	Sn 189.927†	0.2	2.1	0.8504	µg/L	0.8504	ppb	17:11:02
1	Ti 334.940†	1313.0	-268.2	-0.5015	µg/L	-0.5015	ppb	17:10:42
1	Tl 190.801†	-17.5	-1.3	-1.5187	µg/L	-1.5187	ppb	17:11:02
1	U 367.007†	327.7	13.5	3.6534	µg/L	3.6534	ppb	17:10:42
1	V 292.402†	262.6	-98.9	-0.6953	µg/L	-0.6953	ppb	17:10:42
1	Zn 213.857†	551.9	10.4	0.1295	µg/L	0.1295	ppb	17:11:02
2	Sc RADIAL	21873.3	21873.3	99.3	%			17:09:22
2	Al 396.153Radial†	-94.9	-4.4	-7.0642	µg/L	-7.0642	ppb	17:09:22
2	Ca 317.933Radial†	87.6	5.9	4.0109	µg/L	4.0109	ppb	17:09:42
2	Fe 238.204 Radial†	29.0	1.1	3.7641	µg/L	3.7641	ppb	17:09:42
2	K 766.490 Radial†	632.8	-15.2	-18.775	µg/L	-18.775	ppb	17:09:22
2	Mg 279.077 IEC†	6.1	1.9	13.165	µg/L	13.165	ppb	17:09:42
2	Na 589.592 Radial†	-38.8	-6.2	-4.8111	µg/L	-4.8111	ppb	17:09:22
2	Sr 421.552†	26.5	-6.9	-0.0792	µg/L	-0.0792	ppb	17:09:22
2	Sc 361.383	1260593.2	1260593.2	100.06	%			17:11:04
2	Y 371.029	744738.4	744738.4	99.947	%			17:11:04
2	Ag 328.068†	583.2	-86.9	-0.5692	µg/L	-0.5692	ppb	17:11:06
2	As 188.979†	-2.3	0.2	0.4149	µg/L	0.4149	ppb	17:11:26
2	B 249.677†	341.8	82.1	0.9863	µg/L	0.9863	ppb	17:11:26
2	Ba 233.527†	-83.4	-0.8	-0.0107	µg/L	-0.0107	ppb	17:11:26
2	Be 313.107†	-7021.8	-148.7	-0.0644	µg/L	-0.0644	ppb	17:11:06
2	Cd 226.502†	-101.0	8.6	0.1334	µg/L	0.1334	ppb	17:11:26
2	Co 228.616†	-98.2	0.2	0.0083	µg/L	0.0083	ppb	17:11:26
2	Cr 267.716†	115.7	-4.1	-0.0665	µg/L	-0.0665	ppb	17:11:26
2	Cu 324.752†	3823.8	-40.3	-0.2755	µg/L	-0.2755	ppb	17:11:06
2	Mn 257.610†	197.2	-8.1	-0.0241	µg/L	-0.0241	ppb	17:11:26
2	Mo 202.031†	-2.0	6.9	0.7744	µg/L	0.7744	ppb	17:11:26
2	Ni 231.604†	-34.3	8.6	0.2551	µg/L	0.2551	ppb	17:11:26
2	P 214.914†	-65.5	-5.5	-5.8011	µg/L	-5.8011	ppb	17:11:26
2	Pb 220.353†	93.6	-8.9	-1.8909	µg/L	-1.8909	ppb	17:11:26

2	S 181.975 Axial†	19.8	-3.2	-10.404 µg/L	-10.404 ppb	17:11:26
2	Sb 206.836†	0.2	-5.2	-3.2590 µg/L	-3.2590 ppb	17:11:26
2	Se 196.026†	10.1	-1.0	-1.41 µg/L	-1.41 ppb	17:11:26
2	SiO2†	1810.6	-11.7	-2.1463 µg/L	-2.1463 ppb	17:11:26
2	Si 251.611†	401.5	-11.9	-0.3590 µg/L	-0.3590 ppb	17:11:26
2	Sn 189.927†	1.4	3.2	1.3147 µg/L	1.3147 ppb	17:11:26
2	Ti 334.940†	1492.9	-92.7	-0.1661 µg/L	-0.1661 ppb	17:11:06
2	Tl 190.801†	-12.8	3.5	4.1953 µg/L	4.1953 ppb	17:11:26
2	U 367.007†	269.8	-45.4	-12.461 µg/L	-12.461 ppb	17:11:06
2	V 292.402†	359.8	-2.7	-0.0161 µg/L	-0.0161 ppb	17:11:06
2	Zn 213.857†	537.5	-5.8	-0.0759 µg/L	-0.0759 ppb	17:11:26
3	Sc RADIAL	21751.4	21751.4	98.8 %		17:10:03
3	Al 396.153Radial†	-91.1	-1.1	-1.7658 µg/L	-1.7658 ppb	17:10:03
3	Ca 317.933Radial†	77.7	-3.6	-2.4456 µg/L	-2.4456 ppb	17:10:23
3	Fe 238.204 Radial†	28.6	0.8	2.7178 µg/L	2.7178 ppb	17:10:23
3	K 766.490 Radial†	644.5	0.2	0.2445 µg/L	0.2445 ppb	17:10:03
3	Mg 279.077 IEC†	3.1	-1.1	-8.1018 µg/L	-8.1018 ppb	17:10:23
3	Na 589.592 Radial†	-43.0	-10.7	-8.3398 µg/L	-8.3398 ppb	17:10:03
3	Sr 421.552†	51.0	18.0	0.2052 µg/L	0.2052 ppb	17:10:03
3	Sc 361.383	1132052.7	1132052.7	89.855 %		17:11:28
3	Y 371.029	668951.3	668951.3	89.776 %		17:11:28
3	Ag 328.068†	638.6	41.0	0.2859 µg/L	0.2859 ppb	17:11:30
3	As 188.979†	-5.9	-4.0	-7.9578 µg/L	-7.9578 ppb	17:11:50
3	B 249.677†	337.1	115.7	1.3883 µg/L	1.3883 ppb	17:11:50
3	Ba 233.527†	-73.7	0.6	0.0057 µg/L	0.0057 ppb	17:11:50
3	Be 313.107†	-6414.6	-269.7	-0.1169 µg/L	-0.1169 ppb	17:11:30
3	Cd 226.502†	-95.5	3.3	0.0509 µg/L	0.0509 ppb	17:11:50
3	Co 228.616†	-94.6	-6.9	-0.2015 µg/L	-0.2015 ppb	17:11:50
3	Cr 267.716†	140.3	36.5	0.6781 µg/L	0.6781 ppb	17:11:50
3	Cu 324.752†	3704.9	261.4	1.7445 µg/L	1.7445 ppb	17:11:30
3	Mn 257.610†	202.4	19.9	0.0585 µg/L	0.0585 ppb	17:11:50
3	Mo 202.031†	-4.6	3.7	0.4146 µg/L	0.4146 ppb	17:11:50
3	Ni 231.604†	-31.9	7.4	0.2192 µg/L	0.2192 ppb	17:11:50
3	P 214.914†	-68.5	-16.2	-17.188 µg/L	-17.188 ppb	17:11:50
3	Pb 220.353†	91.3	-0.9	-0.1735 µg/L	-0.1735 ppb	17:11:50
3	S 181.975 Axial†	33.8	14.7	48.139 µg/L	48.139 ppb	17:11:50
3	Sb 206.836†	4.8	0.0	0.0274 µg/L	0.0274 ppb	17:11:50
3	Se 196.026†	11.9	2.1	2.88 µg/L	2.88 ppb	17:11:50
3	SiO2†	1800.4	182.4	33.591 µg/L	33.591 ppb	17:11:50
3	Si 251.611†	378.4	8.0	0.2295 µg/L	0.2295 ppb	17:11:50
3	Sn 189.927†	4.0	6.3	2.5772 µg/L	2.5772 ppb	17:11:50
3	Ti 334.940†	1398.5	-28.4	-0.0454 µg/L	-0.0454 ppb	17:11:30
3	Tl 190.801†	-7.3	8.2	9.9060 µg/L	9.9060 ppb	17:11:50
3	U 367.007†	233.1	-55.6	-15.274 µg/L	-15.274 ppb	17:11:30
3	V 292.402†	231.5	-104.6	-0.7396 µg/L	-0.7396 ppb	17:11:30
3	Zn 213.857†	545.3	63.9	0.8118 µg/L	0.8118 ppb	17:11:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1216369.5	96.547	%	5.7982				6.01%
Sc RADIAL	21871.6	99.3	%	0.54				0.55%
Y 371.029	718554.3	96.433	%	5.7680				5.98%
Ag 328.068†	-33.5	-0.2182	µg/L	0.44766	-0.2182	ppb	0.44766	205.12%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-0.3	-0.5421	µg/L	7.21230	-0.5421	ppb	7.21230	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.0	-5.8792	µg/L	5.55459	-5.8792	ppb	5.55459	94.48%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	90.6	1.0761	µg/L	0.27841	1.0761	ppb	0.27841	25.87%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-5.0	-0.0721	µg/L	0.12093	-0.0721	ppb	0.12093	167.62%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-179.9	-0.0780	µg/L	0.03422	-0.0780	ppb	0.03422	43.88%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.6	1.7775	µg/L	3.65931	1.7775	ppb	3.65931	205.87%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	7.8	0.1210	µg/L	0.06479	0.1210	ppb	0.06479	53.56%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-2.1	-0.0606	µg/L	0.12201	-0.0606	ppb	0.12201	201.28%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               16.6      0.3102 µg/L       0.37240      0.3102 ppb        0.37240 120.06%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              113.7      0.7588 µg/L       1.01087      0.7588 ppb        1.01087 133.22%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.7      5.8134 µg/L       4.48620      5.8134 ppb        4.48620  77.17%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -6.0     -7.3650 µg/L      10.06316     -7.3650 ppb       10.06316 136.64%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.1     -0.9570 µg/L      12.23049     -0.9570 ppb       12.23049 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                6.1      0.0180 µg/L       0.04134      0.0180 ppb        0.04134 229.18%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                2.9      0.3287 µg/L       0.49433      0.3287 ppb        0.49433 150.41%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -10.1     -7.9051 µg/L       2.90124     -7.9051 ppb        2.90124  36.70%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                8.2      0.2455 µg/L       0.02300      0.2455 ppb        0.02300   9.37%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               -14.9     -15.806 µg/L        9.3911     -15.806 ppb         9.3911  59.41%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -4.8     -1.0302 µg/L       0.85870     -1.0302 ppb        0.85870  83.36%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           4.3      13.975 µg/L       30.4735      13.975 ppb        30.4735 218.06%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -1.2     -0.7526 µg/L       2.22156     -0.7526 ppb        2.22156 295.19%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.5       0.730 µg/L        2.1415       0.730 ppb         2.1415 293.42%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     61.0      11.224 µg/L       19.4930      11.224 ppb        19.4930 173.67%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               -4.5     -0.1360 µg/L       0.31906     -0.1360 ppb        0.31906 234.61%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                3.9      1.5807 µg/L       0.89361      1.5807 ppb        0.89361  56.53%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                3.0      0.0347 µg/L       0.15045      0.0347 ppb        0.15045 434.02%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -129.8     -0.2377 µg/L       0.23631     -0.2377 ppb        0.23631  99.42%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                3.5      4.1942 µg/L       5.71234      4.1942 ppb        5.71234 136.20%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -29.2     -8.0271 µg/L      10.21286     -8.0271 ppb       10.21286 127.23%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -68.7     -0.4837 µg/L       0.40556     -0.4837 ppb        0.40556  83.85%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               22.8      0.2885 µg/L       0.46474      0.2885 ppb        0.46474 161.10%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 4 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 17:27:24**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22906.7	22906.7	104	%			17:27:56
1	Al 396.153Radial†	3228.2	3194.7	5120.3	µg/L	5120.3	ppb	17:28:16
1	Ca 317.933Radial†	7655.0	7277.1	4953.7	µg/L	4953.7	ppb	17:28:16
1	Fe 238.204 Radial†	1573.3	1484.4	5049.5	µg/L	5049.5	ppb	17:28:16
1	K 766.490 Radial†	4754.0	3918.1	4858.7	µg/L	4858.7	ppb	17:27:56
1	Mg 279.077 IEC†	763.4	729.7	5166.5	µg/L	5166.5	ppb	17:28:16
1	Na 589.592 Radial†	13822.8	13321.9	10418	µg/L	10418	ppb	17:27:56
1	Sr 421.552†	43906.7	42177.5	481.34	µg/L	481.34	ppb	17:27:56
1	Sc 361.383	1279323.0	1279323.0	101.54	%			17:29:19
1	Y 371.029	740094.6	740094.6	99.323	%			17:29:19
1	Ag 328.068†	76284.2	74454.4	498.91	µg/L	498.91	ppb	17:29:21
1	As 188.979†	239.2	238.1	476.48	µg/L	476.48	ppb	17:29:41
1	B 249.677†	41612.8	40720.4	473.13	µg/L	473.13	ppb	17:29:21
1	Ba 233.527†	35739.9	35278.9	497.23	µg/L	497.23	ppb	17:29:21
1	Be 313.107†	1142690.0	1132181.1	490.71	µg/L	490.71	ppb	17:29:19
1	Cd 226.502†	32265.4	31884.2	497.43	µg/L	497.43	ppb	17:29:21
1	Co 228.616†	17157.5	16994.9	499.93	µg/L	499.93	ppb	17:29:21
1	Cr 267.716†	27574.6	27035.6	494.95	µg/L	494.95	ppb	17:29:21
1	Cu 324.752†	78745.4	73686.0	494.90	µg/L	494.90	ppb	17:29:21
1	Mn 257.610†	173448.8	170605.7	497.20	µg/L	497.20	ppb	17:29:21
1	Mo 202.031†	4403.0	4344.9	491.07	µg/L	491.07	ppb	17:29:41
1	Ni 231.604†	16967.8	16752.6	499.69	µg/L	499.69	ppb	17:29:21
1	P 214.914†	2358.5	2382.7	2512.5	µg/L	2512.5	ppb	17:29:41
1	Pb 220.353†	2445.0	2305.4	495.49	µg/L	495.49	ppb	17:29:41
1	S 181.975 Axial†	334.7	306.7	999.36	µg/L	999.36	ppb	17:29:41
1	Sb 206.836†	806.7	789.1	498.79	µg/L	498.79	ppb	17:29:41
1	Se 196.026†	381.8	364.9	498	µg/L	498	ppb	17:29:41
1	SiO2†	31074.4	28780.5	5306.7	µg/L	5306.7	ppb	17:29:21
1	Si 251.611†	86247.5	84522.8	2481.9	µg/L	2481.9	ppb	17:29:21
1	Sn 189.927†	1260.0	1242.7	505.97	µg/L	505.97	ppb	17:29:41
1	Ti 334.940†	271485.0	265771.5	494.96	µg/L	494.96	ppb	17:29:21
1	Tl 190.801†	373.7	384.3	460.97	µg/L	460.97	ppb	17:29:41
1	U 367.007†	2152.4	1804.7	465.89	µg/L	465.89	ppb	17:29:21
1	V 292.402†	71193.0	69748.0	499.56	µg/L	499.56	ppb	17:29:21
1	Zn 213.857†	39849.8	38700.9	490.00	µg/L	490.00	ppb	17:29:21
2	Sc RADIAL	22495.7	22495.7	102	%			17:28:18
2	Al 396.153Radial†	3240.5	3263.5	5230.7	µg/L	5230.7	ppb	17:28:38
2	Ca 317.933Radial†	7781.6	7535.5	5129.6	µg/L	5129.6	ppb	17:28:38
2	Fe 238.204 Radial†	1604.7	1542.8	5249.1	µg/L	5249.1	ppb	17:28:38
2	K 766.490 Radial†	4804.4	4050.9	5022.9	µg/L	5022.9	ppb	17:28:18
2	Mg 279.077 IEC†	775.4	754.8	5344.4	µg/L	5344.4	ppb	17:28:38
2	Na 589.592 Radial†	13821.9	13563.8	10607	µg/L	10607	ppb	17:28:18
2	Sr 421.552†	43865.8	42908.7	489.68	µg/L	489.68	ppb	17:28:18
2	Sc 361.383	1294150.2	1294150.2	102.72	%			17:29:43
2	Y 371.029	748425.3	748425.3	100.44	%			17:29:43
2	Ag 328.068†	75970.2	73287.9	491.11	µg/L	491.11	ppb	17:29:45
2	As 188.979†	239.3	235.5	471.28	µg/L	471.28	ppb	17:30:05
2	B 249.677†	41427.9	40071.0	464.43	µg/L	464.43	ppb	17:29:45
2	Ba 233.527†	35683.5	34820.8	490.77	µg/L	490.77	ppb	17:29:45
2	Be 313.107†	1172279.3	1148093.8	497.61	µg/L	497.61	ppb	17:29:43
2	Cd 226.502†	32233.2	31488.8	491.23	µg/L	491.23	ppb	17:29:45
2	Co 228.616†	17021.4	16668.9	490.34	µg/L	490.34	ppb	17:29:45
2	Cr 267.716†	27453.5	26606.5	487.12	µg/L	487.12	ppb	17:29:45
2	Cu 324.752†	78497.1	72555.8	487.34	µg/L	487.34	ppb	17:29:45
2	Mn 257.610†	173319.3	168522.7	491.12	µg/L	491.12	ppb	17:29:45
2	Mo 202.031†	4374.8	4267.8	482.36	µg/L	482.36	ppb	17:30:05
2	Ni 231.604†	16990.3	16583.1	494.63	µg/L	494.63	ppb	17:29:45
2	P 214.914†	2328.9	2327.3	2453.6	µg/L	2453.6	ppb	17:30:05
2	Pb 220.353†	2442.5	2275.3	489.04	µg/L	489.04	ppb	17:30:05

2	S 181.975 Axial†	324.2	292.7	953.62 µg/L	953.62 ppb	17:30:05
2	Sb 206.836†	795.3	768.9	485.98 µg/L	485.98 ppb	17:30:05
2	Se 196.026†	380.6	359.4	491 µg/L	491 ppb	17:30:05
2	SiO2†	30993.4	28351.1	5227.5 µg/L	5227.5 ppb	17:29:45
2	Si 251.611†	85855.6	83168.1	2442.2 µg/L	2442.2 ppb	17:29:45
2	Sn 189.927†	1249.8	1218.5	496.17 µg/L	496.17 ppb	17:30:05
2	Ti 334.940†	270673.6	261918.5	487.81 µg/L	487.81 ppb	17:29:45
2	Tl 190.801†	391.1	397.0	476.50 µg/L	476.50 ppb	17:30:05
2	U 367.007†	2056.0	1686.5	432.47 µg/L	432.47 ppb	17:29:45
2	V 292.402†	71159.9	68912.5	493.57 µg/L	493.57 ppb	17:29:45
2	Zn 213.857†	39829.4	38231.4	484.02 µg/L	484.02 ppb	17:29:45
3	Sc RADIAL	22142.0	22142.0	101 %		17:28:40
3	Al 396.153Radial†	3167.8	3241.8	5195.8 µg/L	5195.8 ppb	17:29:00
3	Ca 317.933Radial†	7686.0	7562.1	5147.7 µg/L	5147.7 ppb	17:29:00
3	Fe 238.204 Radial†	1592.0	1555.3	5291.3 µg/L	5291.3 ppb	17:29:00
3	K 766.490 Radial†	4789.3	4111.1	5097.6 µg/L	5097.6 ppb	17:28:40
3	Mg 279.077 IEC†	774.1	765.6	5420.9 µg/L	5420.9 ppb	17:29:00
3	Na 589.592 Radial†	13771.1	13729.4	10736 µg/L	10736 ppb	17:28:40
3	Sr 421.552†	43728.7	43458.1	495.96 µg/L	495.96 ppb	17:28:40
3	Sc 361.383	1282742.9	1282742.9	101.82 %		17:30:07
3	Y 371.029	741240.5	741240.5	99.477 %		17:30:07
3	Ag 328.068†	76872.8	74832.1	501.46 µg/L	501.46 ppb	17:30:09
3	As 188.979†	252.5	250.6	501.09 µg/L	501.09 ppb	17:30:29
3	B 249.677†	42079.3	41069.4	476.35 µg/L	476.35 ppb	17:30:09
3	Ba 233.527†	35925.3	35367.2	498.48 µg/L	498.48 ppb	17:30:09
3	Be 313.107†	1153422.0	1139721.5	493.98 µg/L	493.98 ppb	17:30:07
3	Cd 226.502†	32497.4	32027.4	499.64 µg/L	499.64 ppb	17:30:09
3	Co 228.616†	17228.2	17019.4	500.65 µg/L	500.65 ppb	17:30:09
3	Cr 267.716†	27725.2	27111.0	496.36 µg/L	496.36 ppb	17:30:09
3	Cu 324.752†	79386.5	74108.9	497.76 µg/L	497.76 ppb	17:30:09
3	Mn 257.610†	175004.8	171678.6	500.32 µg/L	500.32 ppb	17:30:09
3	Mo 202.031†	4437.1	4366.8	493.56 µg/L	493.56 ppb	17:30:29
3	Ni 231.604†	17119.1	16856.6	502.79 µg/L	502.79 ppb	17:30:09
3	P 214.914†	2363.3	2381.2	2510.5 µg/L	2510.5 ppb	17:30:29
3	Pb 220.353†	2449.9	2303.8	495.16 µg/L	495.16 ppb	17:30:29
3	S 181.975 Axial†	332.7	303.8	989.86 µg/L	989.86 ppb	17:30:29
3	Sb 206.836†	797.4	777.8	491.67 µg/L	491.67 ppb	17:30:29
3	Se 196.026†	383.2	365.2	499 µg/L	499 ppb	17:30:29
3	SiO2†	31291.8	28912.5	5331.0 µg/L	5331.0 ppb	17:30:09
3	Si 251.611†	86909.3	84946.2	2494.4 µg/L	2494.4 ppb	17:30:09
3	Sn 189.927†	1258.4	1237.8	504.01 µg/L	504.01 ppb	17:30:29
3	Ti 334.940†	273450.9	266989.6	497.25 µg/L	497.25 ppb	17:30:09
3	Tl 190.801†	389.8	399.1	478.86 µg/L	478.86 ppb	17:30:29
3	U 367.007†	2075.9	1723.8	442.45 µg/L	442.45 ppb	17:30:09
3	V 292.402†	72033.1	70386.2	504.12 µg/L	504.12 ppb	17:30:09
3	Zn 213.857†	40291.4	39030.0	494.15 µg/L	494.15 ppb	17:30:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1285405.4	102.03	%	0.616				0.60%
Sc RADIAL	22514.8	102	%	1.7				1.70%
Y 371.029	743253.5	99.747	%	0.6060				0.61%
Ag 328.068†	74191.5	497.16	µg/L	5.393	497.16	ppb	5.393	1.08%
QC value within limits for Ag 328.068 Recovery = 99.43%								
Al 396.153Radial†	3233.3	5182.3	µg/L	56.43	5182.3	ppb	56.43	1.09%
QC value within limits for Al 396.153Radial Recovery = 103.65%								
As 188.979†	241.4	482.95	µg/L	15.925	482.95	ppb	15.925	3.30%
QC value within limits for As 188.979 Recovery = 96.59%								
B 249.677†	40620.3	471.30	µg/L	6.167	471.30	ppb	6.167	1.31%
QC value within limits for B 249.677 Recovery = 94.26%								
Ba 233.527†	35155.7	495.49	µg/L	4.138	495.49	ppb	4.138	0.84%
QC value within limits for Ba 233.527 Recovery = 99.10%								
Be 313.107†	1139998.8	494.10	µg/L	3.450	494.10	ppb	3.450	0.70%
QC value within limits for Be 313.107 Recovery = 98.82%								
Ca 317.933Radial†	7458.2	5077.0	µg/L	107.15	5077.0	ppb	107.15	2.11%
QC value within limits for Ca 317.933Radial Recovery = 101.54%								
Cd 226.502†	31800.1	496.10	µg/L	4.360	496.10	ppb	4.360	0.88%
QC value within limits for Cd 226.502 Recovery = 99.22%								
Co 228.616†	16894.4	496.97	µg/L	5.758	496.97	ppb	5.758	1.16%

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   QC value within limits for Co 228.616  Recovery = 99.39%
Cr 267.716†            26917.7      492.81 µg/L         4.976      492.81 ppb          4.976   1.01%
   QC value within limits for Cr 267.716  Recovery = 98.56%
Cu 324.752†            73450.2      493.34 µg/L         5.385      493.34 ppb          5.385   1.09%
   QC value within limits for Cu 324.752  Recovery = 98.67%
Fe 238.204 Radial†      1527.5      5196.6 µg/L        129.14      5196.6 ppb         129.14   2.49%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.93%
K 766.490 Radial†       4026.7      4993.1 µg/L        122.19      4993.1 ppb         122.19   2.45%
   QC value within limits for K 766.490 Radial  Recovery = 99.86%
Mg 279.077 IEC†          750.0      5310.6 µg/L        130.50      5310.6 ppb         130.50   2.46%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.21%
Mn 257.610†           170269.0      496.21 µg/L         4.677      496.21 ppb          4.677   0.94%
   QC value within limits for Mn 257.610  Recovery = 99.24%
Mo 202.031†             4326.5      489.00 µg/L         5.878      489.00 ppb          5.878   1.20%
   QC value within limits for Mo 202.031  Recovery = 97.80%
Na 589.592 Radial†     13538.4       10587 µg/L         160.3       10587 ppb          160.3   1.51%
   QC value within limits for Na 589.592 Radial  Recovery = 105.87%
Ni 231.604†            16730.8      499.04 µg/L         4.119      499.04 ppb          4.119   0.83%
   QC value within limits for Ni 231.604  Recovery = 99.81%
P 214.914†              2363.7      2492.2 µg/L         33.46      2492.2 ppb          33.46   1.34%
   QC value within limits for P 214.914  Recovery = 99.69%
Pb 220.353†             2294.8      493.23 µg/L         3.630      493.23 ppb          3.630   0.74%
   QC value within limits for Pb 220.353  Recovery = 98.65%
S 181.975 Axial†         301.1      980.95 µg/L        24.142      980.95 ppb         24.142   2.46%
   QC value within limits for S 181.975 Axial  Recovery = 98.09%
Sb 206.836†              778.6      492.15 µg/L         6.421      492.15 ppb          6.421   1.30%
   QC value within limits for Sb 206.836  Recovery = 98.43%
Se 196.026†              363.2         496 µg/L           4.5         496 ppb            4.5   0.90%
   QC value within limits for Se 196.026  Recovery = 99.20%
SiO2†                  28681.4      5288.4 µg/L         54.12      5288.4 ppb          54.12   1.02%
   QC value within limits for SiO2  Recovery = 98.89%
Si 251.611†            84212.4      2472.8 µg/L         27.26      2472.8 ppb          27.26   1.10%
   QC value within limits for Si 251.611  Recovery = 98.91%
Sn 189.927†             1233.0      502.05 µg/L         5.188      502.05 ppb          5.188   1.03%
   QC value within limits for Sn 189.927  Recovery = 100.41%
Sr 421.552†            42848.1      488.99 µg/L         7.332      488.99 ppb          7.332   1.50%
   QC value within limits for Sr 421.552  Recovery = 97.80%
Ti 334.940†           264893.2      493.34 µg/L         4.924      493.34 ppb          4.924   1.00%
   QC value within limits for Ti 334.940  Recovery = 98.67%
Tl 190.801†              393.5      472.11 µg/L         9.718      472.11 ppb          9.718   2.06%
   QC value within limits for Tl 190.801  Recovery = 94.42%
U 367.007†              1738.3      446.94 µg/L        17.158      446.94 ppb         17.158   3.84%
   QC value less than the lower limit for U 367.007  Recovery = 89.39%
V 292.402†             69682.2      499.08 µg/L         5.293      499.08 ppb          5.293   1.06%
   QC value within limits for V 292.402  Recovery = 99.82%
Zn 213.857†            38654.1      489.39 µg/L         5.093      489.39 ppb          5.093   1.04%
   QC value within limits for Zn 213.857  Recovery = 97.88%
QC Failed.  Continue with analysis.
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Sequence No.: 5 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/6/2013 17:30:38**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22300.0	22300.0	101	%			17:31:27
1	Al 396.153Radial†	40.8	131.4	210.72	µg/L	210.72	ppb	17:31:27
1	Ca 317.933Radial†	389.7	302.6	205.97	µg/L	205.97	ppb	17:31:47
1	Fe 238.204 Radial†	60.4	31.5	107.34	µg/L	107.34	ppb	17:31:47
1	K 766.490 Radial†	783.2	121.1	150.02	µg/L	150.02	ppb	17:31:27
1	Mg 279.077 IEC†	45.2	40.4	285.97	µg/L	285.97	ppb	17:31:47
1	Na 589.592 Radial†	348.8	377.4	295.10	µg/L	295.10	ppb	17:31:27
1	Sr 421.552†	482.4	442.8	5.0519	µg/L	5.0519	ppb	17:31:27
1	Sc 361.383	1268066.6	1268066.6	100.65	%			17:33:25
1	Y 371.029	748538.9	748538.9	100.46	%			17:33:25
1	Ag 328.068†	1344.7	666.3	4.4359	µg/L	4.4359	ppb	17:33:27
1	As 188.979†	11.6	14.0	27.724	µg/L	27.724	ppb	17:33:47
1	B 249.677†	4263.6	3976.5	47.632	µg/L	47.632	ppb	17:33:27
1	Ba 233.527†	251.4	332.4	4.6844	µg/L	4.6844	ppb	17:33:47
1	Be 313.107†	4804.7	11642.8	5.0463	µg/L	5.0463	ppb	17:33:27
1	Cd 226.502†	228.7	336.8	5.2464	µg/L	5.2464	ppb	17:33:47
1	Co 228.616†	77.4	175.3	5.1608	µg/L	5.1608	ppb	17:33:47
1	Cr 267.716†	391.0	268.7	4.8961	µg/L	4.8961	ppb	17:33:47
1	Cu 324.752†	5347.8	1451.4	9.7597	µg/L	9.7597	ppb	17:33:27
1	Mn 257.610†	3612.3	3383.6	9.8543	µg/L	9.8543	ppb	17:33:47
1	Mo 202.031†	78.0	86.3	9.7622	µg/L	9.7622	ppb	17:33:47
1	Ni 231.604†	119.6	161.7	4.8217	µg/L	4.8217	ppb	17:33:47
1	P 214.914†	91.7	151.1	160.00	µg/L	160.00	ppb	17:33:47
1	Pb 220.353†	155.8	52.3	11.213	µg/L	11.213	ppb	17:33:47
1	S 181.975 Axial†	54.1	30.8	100.77	µg/L	100.77	ppb	17:33:47
1	Sb 206.836†	19.8	14.3	9.0899	µg/L	9.0899	ppb	17:33:47
1	Se 196.026†	34.9	23.6	32.1	µg/L	32.1	ppb	17:33:47
1	SiO2†	3009.4	1168.7	215.19	µg/L	215.19	ppb	17:33:27
1	Si 251.611†	3769.6	3332.1	97.961	µg/L	97.961	ppb	17:33:27
1	Sn 189.927†	25.3	27.0	11.008	µg/L	11.008	ppb	17:33:47
1	Ti 334.940†	4165.5	2553.8	4.7463	µg/L	4.7463	ppb	17:33:27
1	Tl 190.801†	2.7	19.0	22.960	µg/L	22.960	ppb	17:33:47
1	U 367.007†	455.2	137.2	37.002	µg/L	37.002	ppb	17:33:27
1	V 292.402†	1065.7	696.5	5.0755	µg/L	5.0755	ppb	17:33:27
1	Zn 213.857†	1302.9	751.5	9.5365	µg/L	9.5365	ppb	17:33:47
2	Sc RADIAL	21883.6	21883.6	99.4	%			17:32:07
2	Al 396.153Radial†	48.2	139.7	224.02	µg/L	224.02	ppb	17:32:07
2	Ca 317.933Radial†	396.8	317.1	215.83	µg/L	215.83	ppb	17:32:27
2	Fe 238.204 Radial†	60.3	32.5	110.85	µg/L	110.85	ppb	17:32:27
2	K 766.490 Radial†	748.3	100.8	124.82	µg/L	124.82	ppb	17:32:07
2	Mg 279.077 IEC†	49.0	45.0	318.78	µg/L	318.78	ppb	17:32:27
2	Na 589.592 Radial†	354.1	389.2	304.38	µg/L	304.38	ppb	17:32:07
2	Sr 421.552†	499.7	469.2	5.3537	µg/L	5.3537	ppb	17:32:07
2	Sc 361.383	1166088.2	1166088.2	92.556	%			17:33:49
2	Y 371.029	688839.2	688839.2	92.445	%			17:33:49
2	Ag 328.068†	1412.4	856.3	5.6987	µg/L	5.6987	ppb	17:33:51
2	As 188.979†	10.1	13.4	26.542	µg/L	26.542	ppb	17:34:11
2	B 249.677†	3874.0	3926.1	47.019	µg/L	47.019	ppb	17:33:51
2	Ba 233.527†	267.1	371.2	5.2308	µg/L	5.2308	ppb	17:34:11
2	Be 313.107†	3754.0	10925.0	4.7352	µg/L	4.7352	ppb	17:33:51
2	Cd 226.502†	235.1	363.5	5.6643	µg/L	5.6643	ppb	17:34:11
2	Co 228.616†	68.7	172.6	5.0841	µg/L	5.0841	ppb	17:34:11
2	Cr 267.716†	391.3	303.0	5.5190	µg/L	5.5190	ppb	17:34:11
2	Cu 324.752†	5053.7	1598.3	10.748	µg/L	10.748	ppb	17:33:51
2	Mn 257.610†	3580.1	3662.8	10.667	µg/L	10.667	ppb	17:34:11
2	Mo 202.031†	73.3	88.0	9.9590	µg/L	9.9590	ppb	17:34:11
2	Ni 231.604†	120.6	173.2	5.1644	µg/L	5.1644	ppb	17:34:11
2	P 214.914†	79.5	145.9	154.47	µg/L	154.47	ppb	17:34:11
2	Pb 220.353†	146.5	55.8	11.964	µg/L	11.964	ppb	17:34:11

2	S 181.975 Axial†	57.8	39.5	129.17 µg/L	129.17 ppb	17:34:11
2	Sb 206.836†	17.7	13.8	8.7767 µg/L	8.7767 ppb	17:34:11
2	Se 196.026†	34.1	25.7	35.1 µg/L	35.1 ppb	17:34:11
2	SiO2†	2778.5	1180.7	217.42 µg/L	217.42 ppb	17:33:51
2	Si 251.611†	3351.5	3207.9	94.304 µg/L	94.304 ppb	17:33:51
2	Sn 189.927†	24.2	28.0	11.421 µg/L	11.421 ppb	17:34:11
2	Ti 334.940†	3519.4	2217.7	4.1161 µg/L	4.1161 ppb	17:33:51
2	Tl 190.801†	-2.7	13.3	16.046 µg/L	16.046 ppb	17:34:11
2	U 367.007†	444.8	165.5	44.749 µg/L	44.749 ppb	17:33:51
2	V 292.402†	995.1	712.8	5.1999 µg/L	5.1999 ppb	17:33:51
2	Zn 213.857†	1285.3	845.8	10.734 µg/L	10.734 ppb	17:34:11
3	Sc RADIAL	21935.9	21935.9	99.6 %		17:32:47
3	Al 396.153Radial†	36.8	128.2	205.49 µg/L	205.49 ppb	17:32:47
3	Ca 317.933Radial†	386.4	305.7	208.04 µg/L	208.04 ppb	17:33:07
3	Fe 238.204 Radial†	60.8	32.9	112.14 µg/L	112.14 ppb	17:33:07
3	K 766.490 Radial†	757.2	107.8	133.59 µg/L	133.59 ppb	17:32:47
3	Mg 279.077 IEC†	47.5	43.4	307.22 µg/L	307.22 ppb	17:33:07
3	Na 589.592 Radial†	372.4	406.8	318.09 µg/L	318.09 ppb	17:32:47
3	Sr 421.552†	480.6	448.8	5.1208 µg/L	5.1208 ppb	17:32:47
3	Sc 361.383	1270347.2	1270347.2	100.83 %		17:34:13
3	Y 371.029	749948.6	749948.6	100.65 %		17:34:13
3	Ag 328.068†	1434.2	752.7	5.0118 µg/L	5.0118 ppb	17:34:15
3	As 188.979†	7.5	10.0	19.798 µg/L	19.798 ppb	17:34:35
3	B 249.677†	4316.4	4021.3	48.160 µg/L	48.160 ppb	17:34:15
3	Ba 233.527†	271.1	351.4	4.9505 µg/L	4.9505 ppb	17:34:35
3	Be 313.107†	4577.2	11408.5	4.9447 µg/L	4.9447 ppb	17:34:15
3	Cd 226.502†	246.1	353.6	5.5085 µg/L	5.5085 ppb	17:34:35
3	Co 228.616†	61.9	159.8	4.7087 µg/L	4.7087 ppb	17:34:35
3	Cr 267.716†	375.2	252.4	4.5977 µg/L	4.5977 ppb	17:34:35
3	Cu 324.752†	5498.6	1591.4	10.698 µg/L	10.698 ppb	17:34:15
3	Mn 257.610†	3700.5	3464.7	10.090 µg/L	10.090 ppb	17:34:35
3	Mo 202.031†	90.0	98.1	11.095 µg/L	11.095 ppb	17:34:35
3	Ni 231.604†	135.2	176.9	5.2756 µg/L	5.2756 ppb	17:34:35
3	P 214.914†	78.7	138.1	146.18 µg/L	146.18 ppb	17:34:35
3	Pb 220.353†	154.6	50.9	10.918 µg/L	10.918 ppb	17:34:35
3	S 181.975 Axial†	59.9	36.5	119.36 µg/L	119.36 ppb	17:34:35
3	Sb 206.836†	17.6	12.1	7.7238 µg/L	7.7238 ppb	17:34:35
3	Se 196.026†	43.2	31.8	43.3 µg/L	43.3 ppb	17:34:35
3	SiO2†	3002.5	1156.5	212.93 µg/L	212.93 ppb	17:34:15
3	Si 251.611†	3717.8	3274.0	96.235 µg/L	96.235 ppb	17:34:15
3	Sn 189.927†	29.4	31.0	12.624 µg/L	12.624 ppb	17:34:35
3	Ti 334.940†	4056.1	2437.9	4.5303 µg/L	4.5303 ppb	17:34:15
3	Tl 190.801†	0.2	16.5	19.948 µg/L	19.948 ppb	17:34:35
3	U 367.007†	456.3	137.5	37.068 µg/L	37.068 ppb	17:34:15
3	V 292.402†	983.3	612.8	4.5021 µg/L	4.5021 ppb	17:34:15
3	Zn 213.857†	1332.1	778.2	9.8717 µg/L	9.8717 ppb	17:34:35

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1234834.0	98.013	%	4.7264				4.82%
Sc RADIAL	22039.8	100	%	1.0				1.03%
Y 371.029	729108.9	97.849	%	4.6813				4.78%
Ag 328.068†	758.4	5.0488	µg/L	0.63221	5.0488	ppb	0.63221	12.52%
QC value within limits for Ag 328.068 Recovery = 100.98%								
Al 396.153Radial†	133.1	213.41	µg/L	9.556	213.41	ppb	9.556	4.48%
QC value within limits for Al 396.153Radial Recovery = 106.71%								
As 188.979†	12.5	24.688	µg/L	4.2758	24.688	ppb	4.2758	17.32%
QC value within limits for As 188.979 Recovery = 82.29%								
B 249.677†	3974.7	47.604	µg/L	0.5713	47.604	ppb	0.5713	1.20%
QC value within limits for B 249.677 Recovery = 95.21%								
Ba 233.527†	351.7	4.9553	µg/L	0.27322	4.9553	ppb	0.27322	5.51%
QC value within limits for Ba 233.527 Recovery = 99.11%								
Be 313.107†	11325.4	4.9087	µg/L	0.15865	4.9087	ppb	0.15865	3.23%
QC value within limits for Be 313.107 Recovery = 98.17%								
Ca 317.933Radial†	308.5	209.95	µg/L	5.196	209.95	ppb	5.196	2.48%
QC value within limits for Ca 317.933Radial Recovery = 104.97%								
Cd 226.502†	351.3	5.4731	µg/L	0.21118	5.4731	ppb	0.21118	3.86%
QC value within limits for Cd 226.502 Recovery = 109.46%								
Co 228.616†	169.2	4.9845	µg/L	0.24190	4.9845	ppb	0.24190	4.85%

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   QC value within limits for Co 228.616  Recovery = 99.69%
Cr 267.716†              274.7      5.0043 µg/L       0.47010      5.0043 ppb        0.47010   9.39%
   QC value within limits for Cr 267.716  Recovery = 100.09%
Cu 324.752†             1547.0      10.402 µg/L        0.5566      10.402 ppb         0.5566   5.35%
   QC value within limits for Cu 324.752  Recovery = 104.02%
Fe 238.204 Radial†        32.3      110.11 µg/L         2.483      110.11 ppb          2.483   2.26%
   QC value within limits for Fe 238.204 Radial  Recovery = 110.11%
K 766.490 Radial†        109.9      136.14 µg/L        12.794      136.14 ppb         12.794   9.40%
   QC value within limits for K 766.490 Radial  Recovery = 90.76%
Mg 279.077 IEC†           42.9      303.99 µg/L        16.642      303.99 ppb         16.642   5.47%
   QC value within limits for Mg 279.077 IEC  Recovery = 101.33%
Mn 257.610†             3503.7      10.204 µg/L        0.4180      10.204 ppb         0.4180   4.10%
   QC value within limits for Mn 257.610  Recovery = 102.04%
Mo 202.031†               90.8      10.272 µg/L        0.7194      10.272 ppb         0.7194   7.00%
   QC value within limits for Mo 202.031  Recovery = 102.72%
Na 589.592 Radial†       391.1      305.86 µg/L        11.568      305.86 ppb         11.568   3.78%
   QC value within limits for Na 589.592 Radial  Recovery = 101.95%
Ni 231.604†              170.6      5.0872 µg/L       0.23659      5.0872 ppb        0.23659   4.65%
   QC value within limits for Ni 231.604  Recovery = 101.74%
P 214.914†               145.0      153.55 µg/L         6.954      153.55 ppb          6.954   4.53%
   QC value within limits for P 214.914  Recovery = 102.37%
Pb 220.353†               53.0      11.365 µg/L        0.5393      11.365 ppb         0.5393   4.75%
   QC value within limits for Pb 220.353  Recovery = 113.65%
S 181.975 Axial†          35.6      116.43 µg/L        14.423      116.43 ppb         14.423  12.39%
   QC value within limits for S 181.975 Axial  Recovery = 116.43%
Sb 206.836†               13.4      8.5301 µg/L       0.71565      8.5301 ppb        0.71565   8.39%
   QC value within limits for Sb 206.836  Recovery = 85.30%
Se 196.026†               27.0        36.8 µg/L          5.80        36.8 ppb           5.80  15.74%
   QC value within limits for Se 196.026  Recovery = 122.75%
SiO2†                   1168.6      215.18 µg/L         2.242      215.18 ppb          2.242   1.04%
   QC value within limits for SiO2  Recovery = 101.02%
Si 251.611†             3271.4      96.167 µg/L        1.8292      96.167 ppb         1.8292   1.90%
   QC value within limits for Si 251.611  Recovery = 96.17%
Sn 189.927†               28.7      11.684 µg/L        0.8398      11.684 ppb         0.8398   7.19%
   QC value within limits for Sn 189.927  Recovery = 116.84%
Sr 421.552†              453.6      5.1755 µg/L       0.15816      5.1755 ppb        0.15816   3.06%
   QC value within limits for Sr 421.552  Recovery = 103.51%
Ti 334.940†             2403.1      4.4642 µg/L       0.32028      4.4642 ppb        0.32028   7.17%
   QC value within limits for Ti 334.940  Recovery = 89.28%
Tl 190.801†               16.3      19.651 µg/L        3.4664      19.651 ppb         3.4664  17.64%
   QC value within limits for Tl 190.801  Recovery = 98.26%
U 367.007†               146.7      39.606 µg/L        4.4541      39.606 ppb         4.4541  11.25%
   QC value within limits for U 367.007  Recovery = 79.21%
V 292.402†               674.1      4.9258 µg/L       0.37218      4.9258 ppb        0.37218   7.56%
   QC value within limits for V 292.402  Recovery = 98.52%
Zn 213.857†              791.8      10.047 µg/L        0.6179      10.047 ppb         0.6179   6.15%
   QC value within limits for Zn 213.857  Recovery = 100.47%
All analyte(s) passed QC.
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Sequence No.: 6 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 17:34:43**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22379.1	22379.1	102	%			17:35:32
1	Al 396.153Radial†	-91.3	1.4	2.1865	µg/L	2.1865	ppb	17:35:32
1	Ca 317.933Radial†	80.2	-3.4	-2.3026	µg/L	-2.3026	ppb	17:35:52
1	Fe 238.204 Radial†	29.5	0.9	2.9990	µg/L	2.9990	ppb	17:35:52
1	K 766.490 Radial†	659.4	-3.4	-4.2234	µg/L	-4.2234	ppb	17:35:32
1	Mg 279.077 IEC†	3.1	-1.2	-8.4277	µg/L	-8.4277	ppb	17:35:52
1	Na 589.592 Radial†	-27.4	5.9	4.6218	µg/L	4.6218	ppb	17:35:32
1	Sr 421.552†	43.0	8.7	0.0988	µg/L	0.0988	ppb	17:35:32
1	Sc 361.383	1270984.2	1270984.2	100.88	%			17:37:30
1	Y 371.029	751503.1	751503.1	100.85	%			17:37:30
1	Ag 328.068†	516.3	-157.9	-1.0507	µg/L	-1.0507	ppb	17:37:32
1	As 188.979†	-5.5	-2.9	-5.7045	µg/L	-5.7045	ppb	17:37:52
1	B 249.677†	313.0	50.8	0.6052	µg/L	0.6052	ppb	17:37:52
1	Ba 233.527†	-77.9	5.4	0.0744	µg/L	0.0744	ppb	17:37:52
1	Be 313.107†	-6959.5	-29.5	-0.0128	µg/L	-0.0128	ppb	17:37:32
1	Cd 226.502†	-92.0	18.3	0.2859	µg/L	0.2859	ppb	17:37:52
1	Co 228.616†	-93.7	5.5	0.1623	µg/L	0.1623	ppb	17:37:52
1	Cr 267.716†	121.5	0.8	0.0191	µg/L	0.0191	ppb	17:37:52
1	Cu 324.752†	3958.4	61.9	0.4121	µg/L	0.4121	ppb	17:37:32
1	Mn 257.610†	212.9	5.8	0.0174	µg/L	0.0174	ppb	17:37:52
1	Mo 202.031†	-14.2	-5.3	-0.5967	µg/L	-0.5967	ppb	17:37:52
1	Ni 231.604†	-45.5	-2.3	-0.0688	µg/L	-0.0688	ppb	17:37:52
1	P 214.914†	-63.0	-2.4	-2.5158	µg/L	-2.5158	ppb	17:37:52
1	Pb 220.353†	93.1	-10.2	-2.1773	µg/L	-2.1773	ppb	17:37:52
1	S 181.975 Axial†	21.2	-1.9	-6.1069	µg/L	-6.1069	ppb	17:37:52
1	Sb 206.836†	1.1	-4.3	-2.6976	µg/L	-2.6976	ppb	17:37:52
1	Se 196.026†	9.4	-1.8	-2.41	µg/L	-2.41	ppb	17:37:52
1	SiO2†	1839.5	2.2	0.4038	µg/L	0.4038	ppb	17:37:52
1	Si 251.611†	376.6	-39.9	-1.1650	µg/L	-1.1650	ppb	17:37:52
1	Sn 189.927†	6.4	8.1	3.3098	µg/L	3.3098	ppb	17:37:52
1	Ti 334.940†	1448.0	-149.4	-0.2746	µg/L	-0.2746	ppb	17:37:32
1	Tl 190.801†	-13.1	3.2	3.9120	µg/L	3.9120	ppb	17:37:52
1	U 367.007†	289.7	-27.9	-7.6634	µg/L	-7.6634	ppb	17:37:32
1	V 292.402†	295.9	-69.0	-0.4977	µg/L	-0.4977	ppb	17:37:32
1	Zn 213.857†	522.6	-24.9	-0.3183	µg/L	-0.3183	ppb	17:37:52
2	Sc RADIAL	21991.5	21991.5	99.9	%			17:36:12
2	Al 396.153Radial†	-100.4	-9.4	-15.010	µg/L	-15.010	ppb	17:36:12
2	Ca 317.933Radial†	87.8	5.6	3.8273	µg/L	3.8273	ppb	17:36:32
2	Fe 238.204 Radial†	28.4	0.3	1.1487	µg/L	1.1487	ppb	17:36:32
2	K 766.490 Radial†	643.4	-8.0	-9.9001	µg/L	-9.9001	ppb	17:36:12
2	Mg 279.077 IEC†	5.5	1.3	8.9963	µg/L	8.9963	ppb	17:36:32
2	Na 589.592 Radial†	-66.3	-33.5	-26.181	µg/L	-26.181	ppb	17:36:12
2	Sr 421.552†	46.4	12.9	0.1468	µg/L	0.1468	ppb	17:36:12
2	Sc 361.383	1252453.6	1252453.6	99.412	%			17:37:54
2	Y 371.029	739551.6	739551.6	99.250	%			17:37:54
2	Ag 328.068†	540.0	-126.5	-0.8357	µg/L	-0.8357	ppb	17:37:56
2	As 188.979†	-8.4	-5.9	-11.574	µg/L	-11.574	ppb	17:38:16
2	B 249.677†	303.7	46.0	0.5553	µg/L	0.5553	ppb	17:38:16
2	Ba 233.527†	-81.0	1.1	0.0158	µg/L	0.0158	ppb	17:38:16
2	Be 313.107†	-6905.9	-77.6	-0.0336	µg/L	-0.0336	ppb	17:37:56
2	Cd 226.502†	-93.2	15.8	0.2460	µg/L	0.2460	ppb	17:38:16
2	Co 228.616†	-102.4	-4.7	-0.1368	µg/L	-0.1368	ppb	17:38:16
2	Cr 267.716†	133.1	14.2	0.2677	µg/L	0.2677	ppb	17:38:16
2	Cu 324.752†	4023.5	185.5	1.2380	µg/L	1.2380	ppb	17:37:56
2	Mn 257.610†	206.9	2.9	0.0080	µg/L	0.0080	ppb	17:38:16
2	Mo 202.031†	-12.3	-3.5	-0.3931	µg/L	-0.3931	ppb	17:38:16
2	Ni 231.604†	-41.4	1.2	0.0344	µg/L	0.0344	ppb	17:38:16
2	P 214.914†	-68.2	-8.5	-9.0807	µg/L	-9.0807	ppb	17:38:16
2	Pb 220.353†	105.5	3.7	0.8017	µg/L	0.8017	ppb	17:38:16

2	S 181.975 Axial†	27.8	5.1	16.672	µg/L	16.672	ppb	17:38:16
2	Sb 206.836†	1.8	-3.5	-2.2118	µg/L	-2.2118	ppb	17:38:16
2	Se 196.026†	11.1	0.0	0.031	µg/L	0.031	ppb	17:38:16
2	SiO2†	1835.0	24.6	4.5304	µg/L	4.5304	ppb	17:38:16
2	Si 251.611†	378.2	-32.7	-0.9565	µg/L	-0.9565	ppb	17:38:16
2	Sn 189.927†	-1.1	0.7	0.2889	µg/L	0.2889	ppb	17:38:16
2	Ti 334.940†	1414.7	-161.6	-0.2954	µg/L	-0.2954	ppb	17:37:56
2	Tl 190.801†	-13.3	2.8	3.4538	µg/L	3.4538	ppb	17:38:16
2	U 367.007†	273.3	-40.1	-11.017	µg/L	-11.017	ppb	17:37:56
2	V 292.402†	392.7	32.7	0.2203	µg/L	0.2203	ppb	17:37:56
2	Zn 213.857†	523.0	-16.9	-0.2169	µg/L	-0.2169	ppb	17:38:16
3	Sc RADIAL	21874.4	21874.4	99.3	%			17:36:52
3	Al 396.153Radial†	-95.6	-5.1	-8.1492	µg/L	-8.1492	ppb	17:36:52
3	Ca 317.933Radial†	94.3	12.7	8.6496	µg/L	8.6496	ppb	17:37:12
3	Fe 238.204 Radial†	27.4	-0.6	-2.0349	µg/L	-2.0349	ppb	17:37:12
3	K 766.490 Radial†	613.2	-35.0	-43.308	µg/L	-43.308	ppb	17:36:52
3	Mg 279.077 IEC†	5.2	1.0	6.9993	µg/L	6.9993	ppb	17:37:12
3	Na 589.592 Radial†	-34.0	-1.4	-1.0731	µg/L	-1.0731	ppb	17:36:52
3	Sr 421.552†	54.0	20.7	0.2363	µg/L	0.2363	ppb	17:36:52
3	Sc 361.383	1265072.1	1265072.1	100.41	%			17:38:18
3	Y 371.029	748256.7	748256.7	100.42	%			17:38:18
3	Ag 328.068†	691.0	18.4	0.1379	µg/L	0.1379	ppb	17:38:20
3	As 188.979†	-1.9	0.7	1.3087	µg/L	1.3087	ppb	17:38:40
3	B 249.677†	332.0	71.1	0.8846	µg/L	0.8846	ppb	17:38:40
3	Ba 233.527†	-73.0	9.9	0.1386	µg/L	0.1386	ppb	17:38:40
3	Be 313.107†	-6878.6	18.8	0.0082	µg/L	0.0082	ppb	17:38:20
3	Cd 226.502†	-113.7	-3.7	-0.0583	µg/L	-0.0583	ppb	17:38:40
3	Co 228.616†	-106.6	-7.8	-0.2285	µg/L	-0.2285	ppb	17:38:40
3	Cr 267.716†	111.9	-8.2	-0.1397	µg/L	-0.1397	ppb	17:38:40
3	Cu 324.752†	3807.7	-69.8	-0.4763	µg/L	-0.4763	ppb	17:38:20
3	Mn 257.610†	195.9	-10.2	-0.0300	µg/L	-0.0300	ppb	17:38:40
3	Mo 202.031†	-7.0	1.9	0.2162	µg/L	0.2162	ppb	17:38:40
3	Ni 231.604†	-48.5	-5.4	-0.1620	µg/L	-0.1620	ppb	17:38:40
3	P 214.914†	-58.3	2.0	2.1452	µg/L	2.1452	ppb	17:38:40
3	Pb 220.353†	101.4	-1.5	-0.3043	µg/L	-0.3043	ppb	17:38:40
3	S 181.975 Axial†	27.4	4.4	14.281	µg/L	14.281	ppb	17:38:40
3	Sb 206.836†	-0.6	-6.0	-3.7678	µg/L	-3.7678	ppb	17:38:40
3	Se 196.026†	12.6	1.4	1.96	µg/L	1.96	ppb	17:38:40
3	SiO2†	1815.3	-13.4	-2.4783	µg/L	-2.4783	ppb	17:38:40
3	Si 251.611†	400.6	-14.1	-0.4196	µg/L	-0.4196	ppb	17:38:40
3	Sn 189.927†	-1.6	0.2	0.0921	µg/L	0.0921	ppb	17:38:40
3	Ti 334.940†	1469.5	-121.3	-0.2167	µg/L	-0.2167	ppb	17:38:20
3	Tl 190.801†	-12.7	3.6	4.4110	µg/L	4.4110	ppb	17:38:40
3	U 367.007†	253.5	-62.6	-17.150	µg/L	-17.150	ppb	17:38:20
3	V 292.402†	334.0	-29.7	-0.2169	µg/L	-0.2169	ppb	17:38:20
3	Zn 213.857†	544.6	-0.5	-0.0056	µg/L	-0.0056	ppb	17:38:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1262836.6	100.24	%	0.751				0.75%
Sc RADIAL	22081.7	100	%	1.2				1.20%
Y 371.029	746437.1	100.17	%	0.829				0.83%
Ag 328.068†	-88.7	-0.5828	µg/L	0.63338	-0.5828	ppb	0.63338	108.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-4.4	-6.9908	µg/L	8.65650	-6.9908	ppb	8.65650	123.83%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.7	-5.3232	µg/L	6.44960	-5.3232	ppb	6.44960	121.16%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	56.0	0.6817	µg/L	0.17746	0.6817	ppb	0.17746	26.03%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.5	0.0762	µg/L	0.06142	0.0762	ppb	0.06142	80.56%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-29.4	-0.0128	µg/L	0.02090	-0.0128	ppb	0.02090	163.75%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.0	3.3914	µg/L	5.48912	3.3914	ppb	5.48912	161.85%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	10.1	0.1579	µg/L	0.18823	0.1579	ppb	0.18823	119.23%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-2.3	-0.0677	µg/L	0.20439	-0.0677	ppb	0.20439	301.93%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 2.3      0.0490 µg/L       0.20534      0.0490 ppb        0.20534 418.86%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                59.2      0.3912 µg/L       0.85735      0.3912 ppb        0.85735 219.14%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.2      0.7043 µg/L       2.54619      0.7043 ppb        2.54619 361.53%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -15.5     -19.144 µg/L       21.1183     -19.144 ppb        21.1183 110.31%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.4      2.5226 µg/L       9.53566      2.5226 ppb        9.53566 378.00%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                -0.5     -0.0015 µg/L       0.02510     -0.0015 ppb        0.02510 >999.9%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -2.3     -0.2579 µg/L       0.42299     -0.2579 ppb        0.42299 164.03%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         -9.6     -7.5441 µg/L      16.38917     -7.5441 ppb       16.38917 217.25%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -2.2     -0.0655 µg/L       0.09826     -0.0655 ppb        0.09826 150.05%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -3.0     -3.1504 µg/L       5.63981     -3.1504 ppb        5.63981 179.02%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -2.7     -0.5600 µg/L       1.50586     -0.5600 ppb        1.50586 268.92%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            2.5      8.2820 µg/L      12.51834      8.2820 ppb       12.51834 151.15%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -4.6     -2.8924 µg/L       0.79605     -2.8924 ppb        0.79605  27.52%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -0.1      -0.138 µg/L        2.1925      -0.138 ppb         2.1925 >999.9%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                       4.4      0.8186 µg/L       3.52270      0.8186 ppb        3.52270 430.31%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               -28.9     -0.8470 µg/L       0.38456     -0.8470 ppb        0.38456  45.40%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 3.0      1.2303 µg/L       1.80360      1.2303 ppb        1.80360 146.60%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                14.1      0.1607 µg/L       0.06978      0.1607 ppb        0.06978  43.43%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -144.1     -0.2622 µg/L       0.04078     -0.2622 ppb        0.04078  15.55%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 3.2      3.9256 µg/L       0.47876      3.9256 ppb        0.47876  12.20%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -43.5     -11.943 µg/L        4.8106     -11.943 ppb         4.8106  40.28%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -22.0     -0.1648 µg/L       0.36181     -0.1648 ppb        0.36181 219.58%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -14.1     -0.1802 µg/L       0.15951     -0.1802 ppb        0.15951  88.50%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 8 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 17:42:54**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22581.1	22581.1	103	%			17:43:26
1	Al 396.153Radial†	3121.6	3135.5	5025.2	µg/L	5025.2	ppb	17:43:46
1	Ca 317.933Radial†	7455.2	7188.4	4893.3	µg/L	4893.3	ppb	17:43:46
1	Fe 238.204 Radial†	1539.3	1473.1	5010.9	µg/L	5010.9	ppb	17:43:46
1	K 766.490 Radial†	4706.5	3937.7	4883.1	µg/L	4883.1	ppb	17:43:26
1	Mg 279.077 IEC†	745.1	722.4	5115.0	µg/L	5115.0	ppb	17:43:46
1	Na 589.592 Radial†	13220.9	12926.5	10108	µg/L	10108	ppb	17:43:26
1	Sr 421.552†	43159.1	42057.0	479.97	µg/L	479.97	ppb	17:43:26
1	Sc 361.383	1276324.9	1276324.9	101.31	%			17:44:47
1	Y 371.029	738992.2	738992.2	99.175	%			17:44:47
1	Ag 328.068†	76159.5	74507.7	499.29	µg/L	499.29	ppb	17:44:49
1	As 188.979†	236.8	236.3	472.86	µg/L	472.86	ppb	17:45:09
1	B 249.677†	41350.6	40557.9	471.30	µg/L	471.30	ppb	17:44:49
1	Ba 233.527†	35524.2	35148.7	495.40	µg/L	495.40	ppb	17:44:49
1	Be 313.107†	1156405.2	1148362.8	497.73	µg/L	497.73	ppb	17:44:47
1	Cd 226.502†	31962.7	31660.1	493.94	µg/L	493.94	ppb	17:44:49
1	Co 228.616†	17057.5	16935.9	498.20	µg/L	498.20	ppb	17:44:49
1	Cr 267.716†	27420.8	26947.5	493.35	µg/L	493.35	ppb	17:44:49
1	Cu 324.752†	78612.8	73737.3	495.23	µg/L	495.23	ppb	17:44:49
1	Mn 257.610†	172569.0	170138.5	495.84	µg/L	495.84	ppb	17:44:49
1	Mo 202.031†	4418.8	4370.7	493.98	µg/L	493.98	ppb	17:45:09
1	Ni 231.604†	16884.0	16709.1	498.39	µg/L	498.39	ppb	17:44:49
1	P 214.914†	2323.6	2353.7	2481.7	µg/L	2481.7	ppb	17:45:09
1	Pb 220.353†	2425.6	2291.9	492.61	µg/L	492.61	ppb	17:45:09
1	S 181.975 Axial†	326.8	299.6	976.31	µg/L	976.31	ppb	17:45:09
1	Sb 206.836†	805.1	789.4	498.97	µg/L	498.97	ppb	17:45:09
1	Se 196.026†	377.5	361.5	494	µg/L	494	ppb	17:45:09
1	SiO2†	30898.2	28678.5	5287.9	µg/L	5287.9	ppb	17:44:49
1	Si 251.611†	85790.2	84270.8	2474.4	µg/L	2474.4	ppb	17:44:49
1	Sn 189.927†	1257.1	1242.7	505.97	µg/L	505.97	ppb	17:45:09
1	Ti 334.940†	271015.5	265936.1	495.27	µg/L	495.27	ppb	17:44:49
1	Tl 190.801†	390.5	401.7	482.08	µg/L	482.08	ppb	17:45:09
1	U 367.007†	2071.6	1729.9	445.60	µg/L	445.60	ppb	17:44:49
1	V 292.402†	71316.8	70034.9	501.60	µg/L	501.60	ppb	17:44:49
1	Zn 213.857†	39735.8	38680.5	489.75	µg/L	489.75	ppb	17:44:49
2	Sc RADIAL	22308.7	22308.7	101	%			17:43:48
2	Al 396.153Radial†	3125.1	3176.1	5090.4	µg/L	5090.4	ppb	17:44:08
2	Ca 317.933Radial†	7477.5	7299.1	4968.7	µg/L	4968.7	ppb	17:44:08
2	Fe 238.204 Radial†	1539.6	1491.7	5074.3	µg/L	5074.3	ppb	17:44:08
2	K 766.490 Radial†	4721.5	4008.5	4970.9	µg/L	4970.9	ppb	17:43:48
2	Mg 279.077 IEC†	748.5	734.6	5201.1	µg/L	5201.1	ppb	17:44:08
2	Na 589.592 Radial†	13135.9	13000.1	10166	µg/L	10166	ppb	17:43:48
2	Sr 421.552†	43267.8	42678.2	487.05	µg/L	487.05	ppb	17:43:48
2	Sc 361.383	1272027.9	1272027.9	100.97	%			17:45:12
2	Y 371.029	736062.6	736062.6	98.782	%			17:45:12
2	Ag 328.068†	77161.1	75753.7	507.63	µg/L	507.63	ppb	17:45:14
2	As 188.979†	237.0	237.2	474.88	µg/L	474.88	ppb	17:45:34
2	B 249.677†	42132.0	41469.8	482.07	µg/L	482.07	ppb	17:45:14
2	Ba 233.527†	36049.7	35787.7	504.40	µg/L	504.40	ppb	17:45:14
2	Be 313.107†	1155148.8	1150974.4	498.86	µg/L	498.86	ppb	17:45:12
2	Cd 226.502†	32543.5	32341.9	504.58	µg/L	504.58	ppb	17:45:14
2	Co 228.616†	17213.8	17147.6	504.42	µg/L	504.42	ppb	17:45:14
2	Cr 267.716†	27852.7	27466.7	502.86	µg/L	502.86	ppb	17:45:14
2	Cu 324.752†	79689.3	75065.6	504.15	µg/L	504.15	ppb	17:45:14
2	Mn 257.610†	175439.0	173556.5	505.80	µg/L	505.80	ppb	17:45:14
2	Mo 202.031†	4422.7	4389.3	496.08	µg/L	496.08	ppb	17:45:34
2	Ni 231.604†	17182.3	17060.9	508.88	µg/L	508.88	ppb	17:45:14
2	P 214.914†	2355.2	2392.7	2522.9	µg/L	2522.9	ppb	17:45:34
2	Pb 220.353†	2445.5	2319.7	498.57	µg/L	498.57	ppb	17:45:34

2	S 181.975 Axial†	338.5	312.4	1017.9 µg/L	1017.9 ppb		17:45:34
2	Sb 206.836†	804.0	791.0	499.96 µg/L	499.96 ppb		17:45:34
2	Se 196.026†	379.7	365.0	498 µg/L	498 ppb		17:45:34
2	SiO2†	31435.3	29313.5	5404.9 µg/L	5404.9 ppb		17:45:14
2	Si 251.611†	86982.7	85738.0	2517.6 µg/L	2517.6 ppb		17:45:14
2	Sn 189.927†	1259.1	1248.9	508.52 µg/L	508.52 ppb		17:45:34
2	Ti 334.940†	274925.1	270712.0	504.17 µg/L	504.17 ppb		17:45:14
2	Tl 190.801†	386.5	399.0	478.78 µg/L	478.78 ppb		17:45:34
2	U 367.007†	2091.1	1756.1	452.41 µg/L	452.41 ppb		17:45:14
2	V 292.402†	72013.0	70962.2	508.19 µg/L	508.19 ppb		17:45:14
2	Zn 213.857†	40388.9	39459.9	499.62 µg/L	499.62 ppb		17:45:14
3	Sc RADIAL	21189.9	21189.9	96.2 %			17:44:10
3	Al 396.153Radial†	3168.3	3383.9	5423.9 µg/L	5423.9 ppb		17:44:30
3	Ca 317.933Radial†	7601.6	7817.8	5321.8 µg/L	5321.8 ppb		17:44:30
3	Fe 238.204 Radial†	1566.5	1599.8	5443.5 µg/L	5443.5 ppb		17:44:30
3	K 766.490 Radial†	4557.8	4084.4	5064.7 µg/L	5064.7 ppb		17:44:10
3	Mg 279.077 IEC†	749.0	774.1	5481.0 µg/L	5481.0 ppb		17:44:30
3	Na 589.592 Radial†	12647.7	13177.3	10304 µg/L	10304 ppb		17:44:10
3	Sr 421.552†	41742.3	43347.9	494.70 µg/L	494.70 ppb		17:44:10
3	Sc 361.383	1288673.1	1288673.1	102.29 %			17:45:36
3	Y 371.029	746453.7	746453.7	100.18 %			17:45:36
3	Ag 328.068†	77002.5	74611.5	499.96 µg/L	499.96 ppb		17:45:38
3	As 188.979†	242.5	239.7	479.61 µg/L	479.61 ppb		17:45:58
3	B 249.677†	41919.7	40723.2	471.59 µg/L	471.59 ppb		17:45:38
3	Ba 233.527†	36039.0	35316.0	497.75 µg/L	497.75 ppb		17:45:38
3	Be 313.107†	1163992.8	1144842.9	496.20 µg/L	496.20 ppb		17:45:36
3	Cd 226.502†	32362.5	31748.6	495.27 µg/L	495.27 ppb		17:45:38
3	Co 228.616†	17178.7	16893.1	496.93 µg/L	496.93 ppb		17:45:38
3	Cr 267.716†	27801.3	27060.1	495.42 µg/L	495.42 ppb		17:45:38
3	Cu 324.752†	79344.4	73709.0	495.11 µg/L	495.11 ppb		17:45:38
3	Mn 257.610†	175002.8	170885.7	498.01 µg/L	498.01 ppb		17:45:38
3	Mo 202.031†	4424.1	4334.1	489.86 µg/L	489.86 ppb		17:45:58
3	Ni 231.604†	17195.4	16853.9	502.71 µg/L	502.71 ppb		17:45:38
3	P 214.914†	2352.9	2360.4	2488.4 µg/L	2488.4 ppb		17:45:58
3	Pb 220.353†	2449.5	2292.3	492.69 µg/L	492.69 ppb		17:45:58
3	S 181.975 Axial†	327.6	297.4	968.73 µg/L	968.73 ppb		17:45:58
3	Sb 206.836†	818.8	795.2	502.61 µg/L	502.61 ppb		17:45:58
3	Se 196.026†	385.4	365.7	500 µg/L	500 ppb		17:45:58
3	SiO2†	31353.1	28831.0	5315.9 µg/L	5315.9 ppb		17:45:38
3	Si 251.611†	86918.7	84562.7	2483.1 µg/L	2483.1 ppb		17:45:38
3	Sn 189.927†	1251.5	1225.3	498.95 µg/L	498.95 ppb		17:45:58
3	Ti 334.940†	273757.3	266053.2	495.51 µg/L	495.51 ppb		17:45:38
3	Tl 190.801†	395.4	402.9	483.49 µg/L	483.49 ppb		17:45:58
3	U 367.007†	2116.7	1754.4	450.03 µg/L	450.03 ppb		17:45:38
3	V 292.402†	71972.5	70001.4	501.39 µg/L	501.39 ppb		17:45:38
3	Zn 213.857†	40339.0	38894.3	492.40 µg/L	492.40 ppb		17:45:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1279008.6	101.52	%	0.686				0.68%
Sc RADIAL	22026.6	100	%	3.3				3.35%
Y 371.029	740502.8	99.378	%	0.7190				0.72%
Ag 328.068†	74957.7	502.30	µg/L	4.635	502.30	ppb	4.635	0.92%
QC value within limits for Ag 328.068 Recovery = 100.46%								
Al 396.153Radial†	3231.8	5179.8	µg/L	213.88	5179.8	ppb	213.88	4.13%
QC value within limits for Al 396.153Radial Recovery = 103.60%								
As 188.979†	237.7	475.78	µg/L	3.466	475.78	ppb	3.466	0.73%
QC value within limits for As 188.979 Recovery = 95.16%								
B 249.677†	40917.0	474.98	µg/L	6.138	474.98	ppb	6.138	1.29%
QC value within limits for B 249.677 Recovery = 95.00%								
Ba 233.527†	35417.5	499.19	µg/L	4.669	499.19	ppb	4.669	0.94%
QC value within limits for Ba 233.527 Recovery = 99.84%								
Be 313.107†	1148060.1	497.60	µg/L	1.334	497.60	ppb	1.334	0.27%
QC value within limits for Be 313.107 Recovery = 99.52%								
Ca 317.933Radial†	7435.1	5061.3	µg/L	228.75	5061.3	ppb	228.75	4.52%
QC value within limits for Ca 317.933Radial Recovery = 101.23%								
Cd 226.502†	31916.9	497.93	µg/L	5.799	497.93	ppb	5.799	1.16%
QC value within limits for Cd 226.502 Recovery = 99.59%								
Co 228.616†	16992.2	499.85	µg/L	4.007	499.85	ppb	4.007	0.80%

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   QC value within limits for Co 228.616  Recovery = 99.97%
Cr 267.716†            27158.1      497.21 µg/L         4.999      497.21 ppb          4.999   1.01%
   QC value within limits for Cr 267.716  Recovery = 99.44%
Cu 324.752†            74170.6      498.16 µg/L         5.185      498.16 ppb          5.185   1.04%
   QC value within limits for Cu 324.752  Recovery = 99.63%
Fe 238.204 Radial†      1521.5      5176.2 µg/L        233.63      5176.2 ppb         233.63   4.51%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.52%
K 766.490 Radial†       4010.2      4972.9 µg/L         90.81      4972.9 ppb          90.81   1.83%
   QC value within limits for K 766.490 Radial  Recovery = 99.46%
Mg 279.077 IEC†          743.7      5265.7 µg/L        191.36      5265.7 ppb         191.36   3.63%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.31%
Mn 257.610†           171526.9      499.88 µg/L         5.237      499.88 ppb          5.237   1.05%
   QC value within limits for Mn 257.610  Recovery = 99.98%
Mo 202.031†             4364.7      493.31 µg/L         3.162      493.31 ppb          3.162   0.64%
   QC value within limits for Mo 202.031  Recovery = 98.66%
Na 589.592 Radial†     13034.6       10193 µg/L         100.8       10193 ppb          100.8   0.99%
   QC value within limits for Na 589.592 Radial  Recovery = 101.93%
Ni 231.604†            16874.6      503.33 µg/L         5.273      503.33 ppb          5.273   1.05%
   QC value within limits for Ni 231.604  Recovery = 100.67%
P 214.914†              2368.9      2497.7 µg/L         22.12      2497.7 ppb          22.12   0.89%
   QC value within limits for P 214.914  Recovery = 99.91%
Pb 220.353†             2301.3      494.62 µg/L         3.423      494.62 ppb          3.423   0.69%
   QC value within limits for Pb 220.353  Recovery = 98.92%
S 181.975 Axial†         303.1      987.66 µg/L        26.486      987.66 ppb         26.486   2.68%
   QC value within limits for S 181.975 Axial  Recovery = 98.77%
Sb 206.836†              791.9      500.52 µg/L         1.883      500.52 ppb          1.883   0.38%
   QC value within limits for Sb 206.836  Recovery = 100.10%
Se 196.026†              364.1         497 µg/L           3.1         497 ppb            3.1   0.63%
   QC value within limits for Se 196.026  Recovery = 99.44%
SiO2†                  28941.0      5336.2 µg/L         61.11      5336.2 ppb          61.11   1.15%
   QC value within limits for SiO2  Recovery = 99.79%
Si 251.611†            84857.2      2491.7 µg/L         22.83      2491.7 ppb          22.83   0.92%
   QC value within limits for Si 251.611  Recovery = 99.67%
Sn 189.927†             1239.0      504.48 µg/L         4.957      504.48 ppb          4.957   0.98%
   QC value within limits for Sn 189.927  Recovery = 100.90%
Sr 421.552†            42694.4      487.24 µg/L         7.366      487.24 ppb          7.366   1.51%
   QC value within limits for Sr 421.552  Recovery = 97.45%
Ti 334.940†           267567.1      498.31 µg/L         5.069      498.31 ppb          5.069   1.02%
   QC value within limits for Ti 334.940  Recovery = 99.66%
Tl 190.801†              401.2      481.45 µg/L         2.419      481.45 ppb          2.419   0.50%
   QC value within limits for Tl 190.801  Recovery = 96.29%
U 367.007†              1746.8      449.35 µg/L         3.460      449.35 ppb          3.460   0.77%
   QC value less than the lower limit for U 367.007  Recovery = 89.87%
V 292.402†             70332.9      503.73 µg/L         3.869      503.73 ppb          3.869   0.77%
   QC value within limits for V 292.402  Recovery = 100.75%
Zn 213.857†            39011.6      493.93 µg/L         5.107      493.93 ppb          5.107   1.03%
   QC value within limits for Zn 213.857  Recovery = 98.79%
QC Failed.  Continue with analysis.
```

Sequence No.: 9 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 17:46:07**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22395.5	22395.5	102	%			17:46:54
1	Al 396.153Radial†	-85.6	7.0	11.242	µg/L	11.242	ppb	17:46:54
1	Ca 317.933Radial†	98.5	14.6	9.9236	µg/L	9.9236	ppb	17:47:14
1	Fe 238.204 Radial†	25.8	-2.8	-9.4545	µg/L	-9.4545	ppb	17:47:14
1	K 766.490 Radial†	637.1	-25.9	-32.002	µg/L	-32.002	ppb	17:46:54
1	Mg 279.077 IEC†	-0.3	-4.6	-32.637	µg/L	-32.637	ppb	17:47:14
1	Na 589.592 Radial†	-63.7	-29.8	-23.271	µg/L	-23.271	ppb	17:46:54
1	Sr 421.552†	43.0	8.7	0.0990	µg/L	0.0990	ppb	17:46:54
1	Sc 361.383	1273837.2	1273837.2	101.11	%			17:48:52
1	Y 371.029	752604.8	752604.8	101.00	%			17:48:52
1	Ag 328.068†	710.2	32.7	0.2187	µg/L	0.2187	ppb	17:48:54
1	As 188.979†	-8.5	-5.9	-11.526	µg/L	-11.526	ppb	17:49:14
1	B 249.677†	321.3	58.3	0.7536	µg/L	0.7536	ppb	17:49:14
1	Ba 233.527†	-85.4	-1.9	-0.0270	µg/L	-0.0270	ppb	17:49:14
1	Be 313.107†	-7119.6	-172.4	-0.0747	µg/L	-0.0747	ppb	17:48:54
1	Cd 226.502†	-88.3	22.2	0.3485	µg/L	0.3485	ppb	17:49:14
1	Co 228.616†	-104.3	-4.7	-0.1394	µg/L	-0.1394	ppb	17:49:14
1	Cr 267.716†	149.8	28.4	0.5217	µg/L	0.5217	ppb	17:49:14
1	Cu 324.752†	4016.7	110.8	0.7404	µg/L	0.7404	ppb	17:48:54
1	Mn 257.610†	212.4	4.8	0.0149	µg/L	0.0149	ppb	17:49:14
1	Mo 202.031†	-8.1	0.9	0.0977	µg/L	0.0977	ppb	17:49:14
1	Ni 231.604†	-18.2	24.8	0.7408	µg/L	0.7408	ppb	17:49:14
1	P 214.914†	-57.5	3.2	3.4218	µg/L	3.4218	ppb	17:49:14
1	Pb 220.353†	109.7	6.0	1.2955	µg/L	1.2955	ppb	17:49:14
1	S 181.975 Axial†	27.1	3.9	12.651	µg/L	12.651	ppb	17:49:14
1	Sb 206.836†	2.9	-2.4	-1.5388	µg/L	-1.5388	ppb	17:49:14
1	Se 196.026†	7.8	-3.4	-4.57	µg/L	-4.57	ppb	17:49:14
1	SiO2†	1856.7	15.0	2.7770	µg/L	2.7770	ppb	17:49:14
1	Si 251.611†	401.6	-16.0	-0.4720	µg/L	-0.4720	ppb	17:49:14
1	Sn 189.927†	1.0	2.8	1.1512	µg/L	1.1512	ppb	17:49:14
1	Ti 334.940†	1614.8	12.3	0.0242	µg/L	0.0242	ppb	17:48:54
1	Tl 190.801†	-13.9	2.5	3.0951	µg/L	3.0951	ppb	17:49:14
1	U 367.007†	313.1	-5.4	-1.4318	µg/L	-1.4318	ppb	17:48:54
1	V 292.402†	314.2	-51.5	-0.3634	µg/L	-0.3634	ppb	17:48:54
1	Zn 213.857†	523.7	-25.0	-0.3220	µg/L	-0.3220	ppb	17:49:14
2	Sc RADIAL	22336.8	22336.8	101	%			17:47:34
2	Al 396.153Radial†	-90.4	2.1	3.3071	µg/L	3.3071	ppb	17:47:34
2	Ca 317.933Radial†	87.6	4.1	2.8246	µg/L	2.8246	ppb	17:47:54
2	Fe 238.204 Radial†	31.2	2.6	8.9376	µg/L	8.9376	ppb	17:47:54
2	K 766.490 Radial†	612.7	-48.2	-59.741	µg/L	-59.741	ppb	17:47:34
2	Mg 279.077 IEC†	-1.2	-5.4	-38.418	µg/L	-38.418	ppb	17:47:54
2	Na 589.592 Radial†	-45.5	-12.0	-9.3637	µg/L	-9.3637	ppb	17:47:34
2	Sr 421.552†	59.1	24.6	0.2810	µg/L	0.2810	ppb	17:47:34
2	Sc 361.383	1276581.6	1276581.6	101.33	%			17:49:16
2	Y 371.029	754659.3	754659.3	101.28	%			17:49:16
2	Ag 328.068†	672.9	-5.6	-0.0296	µg/L	-0.0296	ppb	17:49:18
2	As 188.979†	-5.0	-2.4	-4.8068	µg/L	-4.8068	ppb	17:49:38
2	B 249.677†	351.7	87.7	1.0512	µg/L	1.0512	ppb	17:49:38
2	Ba 233.527†	-71.6	11.9	0.1669	µg/L	0.1669	ppb	17:49:38
2	Be 313.107†	-7140.2	-177.6	-0.0770	µg/L	-0.0770	ppb	17:49:18
2	Cd 226.502†	-94.4	16.3	0.2538	µg/L	0.2538	ppb	17:49:38
2	Co 228.616†	-95.0	4.7	0.1363	µg/L	0.1363	ppb	17:49:38
2	Cr 267.716†	125.6	4.2	0.0844	µg/L	0.0844	ppb	17:49:38
2	Cu 324.752†	3915.4	2.3	0.0121	µg/L	0.0121	ppb	17:49:18
2	Mn 257.610†	219.9	11.7	0.0359	µg/L	0.0359	ppb	17:49:38
2	Mo 202.031†	-17.0	-7.9	-0.8976	µg/L	-0.8976	ppb	17:49:38
2	Ni 231.604†	-52.2	-8.7	-0.2600	µg/L	-0.2600	ppb	17:49:38
2	P 214.914†	-63.6	-2.7	-2.8741	µg/L	-2.8741	ppb	17:49:38
2	Pb 220.353†	107.3	3.5	0.7516	µg/L	0.7516	ppb	17:49:38

2	S 181.975 Axial†	20.7	-2.5	-8.3118	µg/L	-8.3118	ppb	17:49:38
2	Sb 206.836†	8.9	3.5	2.1754	µg/L	2.1754	ppb	17:49:38
2	Se 196.026†	15.0	3.7	5.04	µg/L	5.04	ppb	17:49:38
2	SiO2†	1843.2	-2.2	-0.4076	µg/L	-0.4076	ppb	17:49:38
2	Si 251.611†	387.0	-31.2	-0.9062	µg/L	-0.9062	ppb	17:49:38
2	Sn 189.927†	4.3	6.1	2.4892	µg/L	2.4892	ppb	17:49:38
2	Ti 334.940†	1570.7	-34.6	-0.0592	µg/L	-0.0592	ppb	17:49:18
2	Tl 190.801†	-17.0	-0.5	-0.6551	µg/L	-0.6551	ppb	17:49:38
2	U 367.007†	283.8	-35.0	-9.6362	µg/L	-9.6362	ppb	17:49:18
2	V 292.402†	370.4	3.3	0.0083	µg/L	0.0083	ppb	17:49:18
2	Zn 213.857†	556.3	6.1	0.0793	µg/L	0.0793	ppb	17:49:38
3	Sc RADIAL	22395.3	22395.3	102	%			17:48:14
3	Al 396.153Radial†	-91.6	1.1	1.7494	µg/L	1.7494	ppb	17:48:14
3	Ca 317.933Radial†	91.2	7.4	5.0427	µg/L	5.0427	ppb	17:48:34
3	Fe 238.204 Radial†	28.0	-0.6	-1.9510	µg/L	-1.9510	ppb	17:48:34
3	K 766.490 Radial†	635.0	-27.9	-34.537	µg/L	-34.537	ppb	17:48:14
3	Mg 279.077 IEC†	-1.4	-5.7	-40.100	µg/L	-40.100	ppb	17:48:34
3	Na 589.592 Radial†	-39.7	-6.2	-4.8204	µg/L	-4.8204	ppb	17:48:14
3	Sr 421.552†	39.0	4.7	0.0538	µg/L	0.0538	ppb	17:48:14
3	Sc 361.383	1269030.0	1269030.0	100.73	%			17:49:40
3	Y 371.029	750279.6	750279.6	100.69	%			17:49:40
3	Ag 328.068†	486.2	-187.0	-1.2429	µg/L	-1.2429	ppb	17:49:42
3	As 188.979†	-2.3	0.3	0.5792	µg/L	0.5792	ppb	17:50:02
3	B 249.677†	355.4	93.3	1.1485	µg/L	1.1485	ppb	17:50:02
3	Ba 233.527†	-95.0	-11.7	-0.1632	µg/L	-0.1632	ppb	17:50:02
3	Be 313.107†	-7233.0	-311.7	-0.1351	µg/L	-0.1351	ppb	17:49:42
3	Cd 226.502†	-101.0	9.2	0.1439	µg/L	0.1439	ppb	17:50:02
3	Co 228.616†	-110.5	-11.3	-0.3302	µg/L	-0.3302	ppb	17:50:02
3	Cr 267.716†	123.6	3.0	0.0598	µg/L	0.0598	ppb	17:50:02
3	Cu 324.752†	3954.2	63.8	0.4233	µg/L	0.4233	ppb	17:49:42
3	Mn 257.610†	212.5	5.7	0.0182	µg/L	0.0182	ppb	17:50:02
3	Mo 202.031†	-1.2	7.7	0.8633	µg/L	0.8633	ppb	17:50:02
3	Ni 231.604†	-40.1	3.0	0.0897	µg/L	0.0897	ppb	17:50:02
3	P 214.914†	-62.5	-2.0	-2.1541	µg/L	-2.1541	ppb	17:50:02
3	Pb 220.353†	96.8	-6.3	-1.3435	µg/L	-1.3435	ppb	17:50:02
3	S 181.975 Axial†	30.3	7.1	23.342	µg/L	23.342	ppb	17:50:02
3	Sb 206.836†	9.2	3.8	2.3840	µg/L	2.3840	ppb	17:50:02
3	Se 196.026†	13.4	2.2	2.98	µg/L	2.98	ppb	17:50:02
3	SiO2†	1859.8	25.1	4.6150	µg/L	4.6150	ppb	17:50:02
3	Si 251.611†	406.5	-9.5	-0.2920	µg/L	-0.2920	ppb	17:50:02
3	Sn 189.927†	-0.3	1.5	0.6180	µg/L	0.6180	ppb	17:50:02
3	Ti 334.940†	1532.2	-63.6	-0.1149	µg/L	-0.1149	ppb	17:49:42
3	Tl 190.801†	-12.0	4.4	5.3174	µg/L	5.3174	ppb	17:50:02
3	U 367.007†	294.1	-23.1	-6.3135	µg/L	-6.3135	ppb	17:49:42
3	V 292.402†	420.9	55.6	0.3988	µg/L	0.3988	ppb	17:49:42
3	Zn 213.857†	562.5	15.5	0.1973	µg/L	0.1973	ppb	17:50:02

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1273149.6	101.05	%	0.303				0.30%
Sc RADIAL	22375.9	102	%	0.2				0.15%
Y 371.029	752514.6	100.99	%	0.294				0.29%
Ag 328.068†	-53.3	-0.3513	µg/L	0.78208	-0.3513	ppb	0.78208	222.62%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	3.4	5.4328	µg/L	5.09075	5.4328	ppb	5.09075	93.70%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.7	-5.2511	µg/L	6.06468	-5.2511	ppb	6.06468	115.49%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	79.8	0.9844	µg/L	0.20577	0.9844	ppb	0.20577	20.90%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-0.6	-0.0078	µg/L	0.16590	-0.0078	ppb	0.16590	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-220.6	-0.0956	µg/L	0.03422	-0.0956	ppb	0.03422	35.79%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.7	5.9303	µg/L	3.63175	5.9303	ppb	3.63175	61.24%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	15.9	0.2487	µg/L	0.10239	0.2487	ppb	0.10239	41.17%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-3.8	-0.1111	µg/L	0.23452	-0.1111	ppb	0.23452	211.04%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               11.9      0.2220 µg/L       0.25990      0.2220 ppb        0.25990 117.09%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               59.0      0.3919 µg/L       0.36514      0.3919 ppb        0.36514  93.16%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.2     -0.8227 µg/L       9.24782     -0.8227 ppb        9.24782 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -34.0     -42.093 µg/L       15.3358     -42.093 ppb        15.3358  36.43%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -5.2     -37.052 µg/L        3.9149     -37.052 ppb         3.9149  10.57%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                7.4      0.0230 µg/L       0.01128      0.0230 ppb        0.01128  49.11%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                0.2      0.0212 µg/L       0.88294      0.0212 ppb        0.88294 >999.9%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -16.0     -12.485 µg/L        9.6134     -12.485 ppb         9.6134  77.00%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                6.4      0.1902 µg/L       0.50792      0.1902 ppb        0.50792 267.10%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -0.5     -0.5355 µg/L       3.44595     -0.5355 ppb        3.44595 643.53%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                1.1      0.2345 µg/L       1.39340      0.2345 ppb        1.39340 594.20%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           2.8      9.2270 µg/L      16.10213      9.2270 ppb       16.10213 174.51%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                1.6      1.0069 µg/L       2.20708      1.0069 ppb        2.20708 219.20%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.8        1.15 µg/L         5.063        1.15 ppb          5.063 440.52%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     12.6      2.3281 µg/L       2.54122      2.3281 ppb        2.54122 109.15%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              -18.9     -0.5567 µg/L       0.31577     -0.5567 ppb        0.31577  56.72%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                3.5      1.4195 µg/L       0.96404      1.4195 ppb        0.96404  67.92%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               12.7      0.1446 µg/L       0.12027      0.1446 ppb        0.12027  83.17%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -28.6     -0.0500 µg/L       0.06998     -0.0500 ppb        0.06998 140.06%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                2.1      2.5858 µg/L       3.01866      2.5858 ppb        3.01866 116.74%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -21.1     -5.7938 µg/L       4.12682     -5.7938 ppb        4.12682  71.23%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 2.4      0.0146 µg/L       0.38117      0.0146 ppb        0.38117 >999.9%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -1.1     -0.0151 µg/L       0.27223     -0.0151 ppb        0.27223 >999.9%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Analysis Begun

Start Time: 11/6/2013 18:01:03 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110613.sif
Batch ID:
Results Data Set: 110613A
Results Library: C:\pe\optima4\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 18:01:05**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22952.7	22952.7	104	%			18:01:36
1	Al 396.153Radial†	3251.9	3211.2	5146.6	µg/L	5146.6	ppb	18:01:56
1	Ca 317.933Radial†	7698.5	7304.1	4972.0	µg/L	4972.0	ppb	18:01:56
1	Fe 238.204 Radial†	1585.7	1493.2	5079.7	µg/L	5079.7	ppb	18:01:56
1	K 766.490 Radial†	4671.3	3829.6	4749.4	µg/L	4749.4	ppb	18:01:36
1	Mg 279.077 IEC†	765.7	730.3	5171.3	µg/L	5171.3	ppb	18:01:56
1	Na 589.592 Radial†	13328.9	12821.4	10026	µg/L	10026	ppb	18:01:36
1	Sr 421.552†	42625.6	40863.7	466.35	µg/L	466.35	ppb	18:01:36
1	Sc 361.383	1260290.9	1260290.9	100.03	%			18:02:58
1	Y 371.029	728896.4	728896.4	97.820	%			18:02:58
1	Ag 328.068†	75351.4	74656.3	500.30	µg/L	500.30	ppb	18:03:00
1	As 188.979†	240.4	242.8	485.86	µg/L	485.86	ppb	18:03:20
1	B 249.677†	41101.2	40828.0	474.36	µg/L	474.36	ppb	18:03:00
1	Ba 233.527†	35249.3	35320.0	497.82	µg/L	497.82	ppb	18:03:00
1	Be 313.107†	1141560.4	1148045.6	497.59	µg/L	497.59	ppb	18:02:58
1	Cd 226.502†	31879.1	31977.8	498.89	µg/L	498.89	ppb	18:03:00
1	Co 228.616†	16864.6	16957.3	498.83	µg/L	498.83	ppb	18:03:00
1	Cr 267.716†	27290.6	27161.7	497.28	µg/L	497.28	ppb	18:03:00
1	Cu 324.752†	77646.1	73758.1	495.38	µg/L	495.38	ppb	18:03:00
1	Mn 257.610†	171043.8	170781.0	497.71	µg/L	497.71	ppb	18:03:00
1	Mo 202.031†	4408.2	4415.6	499.05	µg/L	499.05	ppb	18:03:20
1	Ni 231.604†	16825.0	16862.2	502.96	µg/L	502.96	ppb	18:03:00
1	P 214.914†	2403.5	2462.7	2597.3	µg/L	2597.3	ppb	18:03:20
1	Pb 220.353†	2432.2	2329.0	500.59	µg/L	500.59	ppb	18:03:20
1	S 181.975 Axial†	331.2	308.2	1004.3	µg/L	1004.3	ppb	18:03:20
1	Sb 206.836†	817.6	812.0	513.27	µg/L	513.27	ppb	18:03:20
1	Se 196.026†	387.8	376.6	514	µg/L	514	ppb	18:03:20
1	SiO2†	30804.2	28972.6	5342.0	µg/L	5342.0	ppb	18:03:00
1	Si 251.611†	85098.6	84656.9	2485.7	µg/L	2485.7	ppb	18:03:00
1	Sn 189.927†	1278.9	1280.4	521.30	µg/L	521.30	ppb	18:03:20
1	Ti 334.940†	268362.1	266687.1	496.68	µg/L	496.68	ppb	18:03:00
1	Tl 190.801†	375.5	391.6	469.82	µg/L	469.82	ppb	18:03:20
1	U 367.007†	2026.1	1710.4	439.89	µg/L	439.89	ppb	18:03:00
1	V 292.402†	70693.1	70307.0	503.60	µg/L	503.60	ppb	18:03:00
1	Zn 213.857†	39494.6	38938.4	493.01	µg/L	493.01	ppb	18:03:00
2	Sc RADIAL	22163.0	22163.0	101	%			18:01:58
2	Al 396.153Radial†	3202.0	3272.8	5245.6	µg/L	5245.6	ppb	18:02:18
2	Ca 317.933Radial†	7674.9	7543.9	5135.3	µg/L	5135.3	ppb	18:02:18
2	Fe 238.204 Radial†	1584.8	1546.6	5261.5	µg/L	5261.5	ppb	18:02:18
2	K 766.490 Radial†	4738.8	4056.3	5029.9	µg/L	5029.9	ppb	18:01:58
2	Mg 279.077 IEC†	767.5	758.3	5369.5	µg/L	5369.5	ppb	18:02:18
2	Na 589.592 Radial†	13643.5	13589.7	10627	µg/L	10627	ppb	18:01:58
2	Sr 421.552†	43634.4	43323.3	494.42	µg/L	494.42	ppb	18:01:58
2	Sc 361.383	1269232.5	1269232.5	100.74	%			18:03:22
2	Y 371.029	734109.7	734109.7	98.520	%			18:03:22
2	Ag 328.068†	76757.8	75521.7	506.09	µg/L	506.09	ppb	18:03:24
2	As 188.979†	238.3	239.0	478.46	µg/L	478.46	ppb	18:03:44

2	B 249.677†	42118.9	41548.6	482.31 µg/L	482.31 ppb		18:03:24
2	Ba 233.527†	35978.8	35795.9	504.52 µg/L	504.52 ppb		18:03:24
2	Be 313.107†	1150049.7	1148432.8	497.76 µg/L	497.76 ppb		18:03:22
2	Cd 226.502†	32633.7	32502.4	507.06 µg/L	507.06 ppb		18:03:24
2	Co 228.616†	17306.8	17277.4	508.24 µg/L	508.24 ppb		18:03:24
2	Cr 267.716†	27782.9	27458.2	502.72 µg/L	502.72 ppb		18:03:24
2	Cu 324.752†	79114.7	74669.1	501.51 µg/L	501.51 ppb		18:03:24
2	Mn 257.610†	174770.3	173275.4	504.98 µg/L	504.98 ppb		18:03:24
2	Mo 202.031†	4422.6	4398.8	497.16 µg/L	497.16 ppb		18:03:44
2	Ni 231.604†	17225.6	17141.4	511.28 µg/L	511.28 ppb		18:03:24
2	P 214.914†	2426.2	2468.3	2602.9 µg/L	2602.9 ppb		18:03:44
2	Pb 220.353†	2472.2	2351.5	505.42 µg/L	505.42 ppb		18:03:44
2	S 181.975 Axial†	329.4	304.1	990.76 µg/L	990.76 ppb		18:03:44
2	Sb 206.836†	825.3	813.9	514.41 µg/L	514.41 ppb		18:03:44
2	Se 196.026†	380.8	366.9	501 µg/L	501 ppb		18:03:44
2	SiO2†	31440.9	29387.6	5418.5 µg/L	5418.5 ppb		18:03:24
2	Si 251.611†	86941.2	85886.5	2522.0 µg/L	2522.0 ppb		18:03:24
2	Sn 189.927†	1281.5	1273.9	518.69 µg/L	518.69 ppb		18:03:44
2	Ti 334.940†	273241.8	269640.8	502.19 µg/L	502.19 ppb		18:03:24
2	Tl 190.801†	368.9	382.5	458.63 µg/L	458.63 ppb		18:03:44
2	U 367.007†	2037.2	1707.2	438.00 µg/L	438.00 ppb		18:03:24
2	V 292.402†	71932.3	71039.3	508.77 µg/L	508.77 ppb		18:03:24
2	Zn 213.857†	40258.0	39418.0	499.05 µg/L	499.05 ppb		18:03:24
3	Sc RADIAL	22012.1	22012.1	100.0 %			18:02:20
3	Al 396.153Radial†	3213.2	3305.8	5298.6 µg/L	5298.6 ppb		18:02:40
3	Ca 317.933Radial†	7724.2	7645.5	5204.4 µg/L	5204.4 ppb		18:02:40
3	Fe 238.204 Radial†	1598.0	1570.6	5343.5 µg/L	5343.5 ppb		18:02:40
3	K 766.490 Radial†	4785.5	4135.3	5127.7 µg/L	5127.7 ppb		18:02:20
3	Mg 279.077 IEC†	773.8	769.8	5451.0 µg/L	5451.0 ppb		18:02:40
3	Na 589.592 Radial†	13470.2	13509.2	10564 µg/L	10564 ppb		18:02:20
3	Sr 421.552†	43593.2	43579.3	497.34 µg/L	497.34 ppb		18:02:20
3	Sc 361.383	1285687.8	1285687.8	102.05 %			18:03:46
3	Y 371.029	744178.3	744178.3	99.871 %			18:03:46
3	Ag 328.068†	77050.7	74833.6	501.48 µg/L	501.48 ppb		18:03:48
3	As 188.979†	234.3	232.1	464.84 µg/L	464.84 ppb		18:04:08
3	B 249.677†	42181.0	41074.4	476.22 µg/L	476.22 ppb		18:03:48
3	Ba 233.527†	36191.2	35547.0	501.01 µg/L	501.01 ppb		18:03:48
3	Be 313.107†	1162346.7	1145872.1	496.65 µg/L	496.65 ppb		18:03:46
3	Cd 226.502†	32869.8	32319.1	504.19 µg/L	504.19 ppb		18:03:48
3	Co 228.616†	17450.4	17198.4	505.91 µg/L	505.91 ppb		18:03:48
3	Cr 267.716†	27974.0	27292.5	499.69 µg/L	499.69 ppb		18:03:48
3	Cu 324.752†	79312.2	73857.5	496.08 µg/L	496.08 ppb		18:03:48
3	Mn 257.610†	175602.1	171870.2	500.88 µg/L	500.88 ppb		18:03:48
3	Mo 202.031†	4413.6	4333.8	489.83 µg/L	489.83 ppb		18:04:08
3	Ni 231.604†	17269.6	16965.6	506.04 µg/L	506.04 ppb		18:03:48
3	P 214.914†	2405.9	2417.7	2549.2 µg/L	2549.2 ppb		18:04:08
3	Pb 220.353†	2441.4	2290.0	492.21 µg/L	492.21 ppb		18:04:08
3	S 181.975 Axial†	334.1	304.5	992.17 µg/L	992.17 ppb		18:04:08
3	Sb 206.836†	811.7	790.1	499.36 µg/L	499.36 ppb		18:04:08
3	Se 196.026†	376.3	357.6	489 µg/L	489 ppb		18:04:08
3	SiO2†	31413.6	28961.4	5340.0 µg/L	5340.0 ppb		18:03:48
3	Si 251.611†	87271.2	85105.4	2499.1 µg/L	2499.1 ppb		18:03:48
3	Sn 189.927†	1287.7	1263.7	514.55 µg/L	514.55 ppb		18:04:08
3	Ti 334.940†	274208.1	267116.3	497.49 µg/L	497.49 ppb		18:03:48
3	Tl 190.801†	374.0	382.7	458.98 µg/L	458.98 ppb		18:04:08
3	U 367.007†	2030.3	1674.5	428.62 µg/L	428.62 ppb		18:03:48
3	V 292.402†	72430.5	70613.5	505.68 µg/L	505.68 ppb		18:03:48
3	Zn 213.857†	40585.7	39227.6	496.65 µg/L	496.65 ppb		18:03:48

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1271737.1	100.94	%	1.023				1.01%
Sc RADIAL	22375.9	102	%	2.3				2.26%
Y 371.029	735728.1	98.737	%	1.0425				1.06%
Ag 328.068†	75003.9	502.62	µg/L	3.061	502.62	ppb	3.061	0.61%
QC value within limits for Ag 328.068 Recovery = 100.52%								
Al 396.153Radial†	3263.3	5230.3	µg/L	77.14	5230.3	ppb	77.14	1.47%
QC value within limits for Al 396.153Radial Recovery = 104.61%								
As 188.979†	238.0	476.39	µg/L	10.664	476.39	ppb	10.664	2.24%

```
   QC value within limits for As 188.979  Recovery = 95.28%
B 249.677†            41150.3      477.63 µg/L         4.158      477.63 ppb          4.158   0.87%
   QC value within limits for B 249.677  Recovery = 95.53%
Ba 233.527†           35554.3      501.11 µg/L         3.352      501.11 ppb          3.352   0.67%
   QC value within limits for Ba 233.527  Recovery = 100.22%
Be 313.107†         1147450.2      497.33 µg/L         0.598      497.33 ppb          0.598   0.12%
   QC value within limits for Be 313.107  Recovery = 99.47%
Ca 317.933Radial†       7497.8      5103.9 µg/L        119.32      5103.9 ppb         119.32   2.34%
   QC value within limits for Ca 317.933Radial  Recovery = 102.08%
Cd 226.502†           32266.4      503.38 µg/L         4.145      503.38 ppb          4.145   0.82%
   QC value within limits for Cd 226.502  Recovery = 100.68%
Co 228.616†           17144.4      504.33 µg/L         4.902      504.33 ppb          4.902   0.97%
   QC value within limits for Co 228.616  Recovery = 100.87%
Cr 267.716†           27304.1      499.90 µg/L         2.723      499.90 ppb          2.723   0.54%
   QC value within limits for Cr 267.716  Recovery = 99.98%
Cu 324.752†           74094.9      497.66 µg/L         3.358      497.66 ppb          3.358   0.67%
   QC value within limits for Cu 324.752  Recovery = 99.53%
Fe 238.204 Radial†      1536.8      5228.2 µg/L        135.02      5228.2 ppb         135.02   2.58%
   QC value within limits for Fe 238.204 Radial  Recovery = 104.56%
K 766.490 Radial†       4007.1      4969.0 µg/L        196.37      4969.0 ppb         196.37   3.95%
   QC value within limits for K 766.490 Radial  Recovery = 99.38%
Mg 279.077 IEC†          752.8      5330.6 µg/L        143.83      5330.6 ppb         143.83   2.70%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.61%
Mn 257.610†          171975.5      501.19 µg/L         3.644      501.19 ppb          3.644   0.73%
   QC value within limits for Mn 257.610  Recovery = 100.24%
Mo 202.031†             4382.7      495.35 µg/L         4.872      495.35 ppb          4.872   0.98%
   QC value within limits for Mo 202.031  Recovery = 99.07%
Na 589.592 Radial†     13306.7       10406 µg/L         330.2       10406 ppb          330.2   3.17%
   QC value within limits for Na 589.592 Radial  Recovery = 104.06%
Ni 231.604†           16989.7      506.76 µg/L         4.210      506.76 ppb          4.210   0.83%
   QC value within limits for Ni 231.604  Recovery = 101.35%
P 214.914†             2449.6      2583.1 µg/L         29.51      2583.1 ppb          29.51   1.14%
   QC value within limits for P 214.914  Recovery = 103.33%
Pb 220.353†            2323.5      499.40 µg/L         6.684      499.40 ppb          6.684   1.34%
   QC value within limits for Pb 220.353  Recovery = 99.88%
S 181.975 Axial†        305.6      995.73 µg/L         7.419      995.73 ppb          7.419   0.75%
   QC value within limits for S 181.975 Axial  Recovery = 99.57%
Sb 206.836†             805.3      509.01 µg/L         8.380      509.01 ppb          8.380   1.65%
   QC value within limits for Sb 206.836  Recovery = 101.80%
Se 196.026†             367.0         501 µg/L          12.8         501 ppb           12.8   2.56%
   QC value within limits for Se 196.026  Recovery = 100.25%
SiO2†                 29107.2      5366.9 µg/L         44.76      5366.9 ppb          44.76   0.83%
   QC value within limits for SiO2  Recovery = 100.36%
Si 251.611†           85216.3      2502.3 µg/L         18.33      2502.3 ppb          18.33   0.73%
   QC value within limits for Si 251.611  Recovery = 100.09%
Sn 189.927†            1272.7      518.18 µg/L         3.402      518.18 ppb          3.402   0.66%
   QC value within limits for Sn 189.927  Recovery = 103.64%
Sr 421.552†           42588.8      486.03 µg/L        17.112      486.03 ppb         17.112   3.52%
   QC value within limits for Sr 421.552  Recovery = 97.21%
Ti 334.940†          267814.8      498.78 µg/L         2.974      498.78 ppb          2.974   0.60%
   QC value within limits for Ti 334.940  Recovery = 99.76%
Tl 190.801†             385.6      462.48 µg/L         6.359      462.48 ppb          6.359   1.37%
   QC value within limits for Tl 190.801  Recovery = 92.50%
U 367.007†             1697.4      435.50 µg/L         6.033      435.50 ppb          6.033   1.39%
   QC value less than the lower limit for U 367.007  Recovery = 87.10%
V 292.402†            70653.3      506.02 µg/L         2.604      506.02 ppb          2.604   0.51%
   QC value within limits for V 292.402  Recovery = 101.20%
Zn 213.857†           39194.7      496.24 µg/L         3.043      496.24 ppb          3.043   0.61%
   QC value within limits for Zn 213.857  Recovery = 99.25%
QC Failed.  Continue with analysis.
```

Sequence No.: 2 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 18:04:17**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22254.7	22254.7	101	%			18:05:04
1	Al 396.153Radial†	-98.5	-6.3	-10.128	µg/L	-10.128	ppb	18:05:04
1	Ca 317.933Radial†	95.6	12.3	8.3670	µg/L	8.3670	ppb	18:05:24
1	Fe 238.204 Radial†	29.3	0.9	3.0630	µg/L	3.0630	ppb	18:05:24
1	K 766.490 Radial†	639.6	-19.4	-23.981	µg/L	-23.981	ppb	18:05:04
1	Mg 279.077 IEC†	9.6	5.2	36.709	µg/L	36.709	ppb	18:05:24
1	Na 589.592 Radial†	-39.3	-5.9	-4.6528	µg/L	-4.6528	ppb	18:05:04
1	Sr 421.552†	60.2	25.9	0.2959	µg/L	0.2959	ppb	18:05:04
1	Sc 361.383	1256563.2	1256563.2	99.738	%			18:07:02
1	Y 371.029	742768.7	742768.7	99.682	%			18:07:02
1	Ag 328.068†	587.9	-80.2	-0.5400	µg/L	-0.5400	ppb	18:07:04
1	As 188.979†	-6.5	-4.0	-7.9190	µg/L	-7.9190	ppb	18:07:24
1	B 249.677†	383.3	124.8	1.5079	µg/L	1.5079	ppb	18:07:24
1	Ba 233.527†	-76.8	5.6	0.0782	µg/L	0.0782	ppb	18:07:24
1	Be 313.107†	-6896.4	-45.5	-0.0197	µg/L	-0.0197	ppb	18:07:04
1	Cd 226.502†	-109.8	-0.6	-0.0088	µg/L	-0.0088	ppb	18:07:24
1	Co 228.616†	-95.8	2.3	0.0692	µg/L	0.0692	ppb	18:07:24
1	Cr 267.716†	106.0	-13.4	-0.2488	µg/L	-0.2488	ppb	18:07:24
1	Cu 324.752†	3971.6	120.2	0.8075	µg/L	0.8075	ppb	18:07:04
1	Mn 257.610†	199.3	-5.4	-0.0171	µg/L	-0.0171	ppb	18:07:24
1	Mo 202.031†	-4.6	4.3	0.4846	µg/L	0.4846	ppb	18:07:24
1	Ni 231.604†	-20.1	22.6	0.6753	µg/L	0.6753	ppb	18:07:24
1	P 214.914†	-75.8	-15.9	-16.908	µg/L	-16.908	ppb	18:07:24
1	Pb 220.353†	105.8	3.7	0.7803	µg/L	0.7803	ppb	18:07:24
1	S 181.975 Axial†	24.6	1.7	5.7043	µg/L	5.7043	ppb	18:07:24
1	Sb 206.836†	5.9	0.6	0.3629	µg/L	0.3629	ppb	18:07:24
1	Se 196.026†	8.5	-2.6	-3.56	µg/L	-3.56	ppb	18:07:24
1	SiO2†	1818.3	1.8	0.3356	µg/L	0.3356	ppb	18:07:24
1	Si 251.611†	377.5	-34.6	-1.0250	µg/L	-1.0250	ppb	18:07:24
1	Sn 189.927†	-2.8	-0.9	-0.3782	µg/L	-0.3782	ppb	18:07:24
1	Ti 334.940†	1402.1	-179.0	-0.3351	µg/L	-0.3351	ppb	18:07:04
1	Tl 190.801†	-16.7	-0.5	-0.5546	µg/L	-0.5546	ppb	18:07:24
1	U 367.007†	328.4	14.2	3.8772	µg/L	3.8772	ppb	18:07:04
1	V 292.402†	342.9	-18.5	-0.1219	µg/L	-0.1219	ppb	18:07:04
1	Zn 213.857†	558.6	17.2	0.2129	µg/L	0.2129	ppb	18:07:24
2	Sc RADIAL	21989.8	21989.8	99.9	%			18:05:44
2	Al 396.153Radial†	-97.2	-6.2	-9.9026	µg/L	-9.9026	ppb	18:05:44
2	Ca 317.933Radial†	90.7	8.6	5.8523	µg/L	5.8523	ppb	18:06:04
2	Fe 238.204 Radial†	27.7	-0.4	-1.3480	µg/L	-1.3480	ppb	18:06:04
2	K 766.490 Radial†	651.4	0.0	0.0225	µg/L	0.0225	ppb	18:05:44
2	Mg 279.077 IEC†	8.9	4.7	33.018	µg/L	33.018	ppb	18:06:04
2	Na 589.592 Radial†	-38.2	-5.3	-4.1696	µg/L	-4.1696	ppb	18:05:44
2	Sr 421.552†	58.4	24.9	0.2840	µg/L	0.2840	ppb	18:05:44
2	Sc 361.383	1253632.9	1253632.9	99.505	%			18:07:26
2	Y 371.029	741934.9	741934.9	99.570	%			18:07:26
2	Ag 328.068†	670.1	3.7	0.0447	µg/L	0.0447	ppb	18:07:28
2	As 188.979†	-7.6	-5.1	-10.038	µg/L	-10.038	ppb	18:07:48
2	B 249.677†	364.4	106.7	1.2949	µg/L	1.2949	ppb	18:07:48
2	Ba 233.527†	-102.5	-20.4	-0.2848	µg/L	-0.2848	ppb	18:07:48
2	Be 313.107†	-6858.6	-23.6	-0.0102	µg/L	-0.0102	ppb	18:07:28
2	Cd 226.502†	-94.8	14.2	0.2222	µg/L	0.2222	ppb	18:07:48
2	Co 228.616†	-99.8	-1.9	-0.0564	µg/L	-0.0564	ppb	18:07:48
2	Cr 267.716†	128.0	9.0	0.1768	µg/L	0.1768	ppb	18:07:48
2	Cu 324.752†	3937.9	95.6	0.6314	µg/L	0.6314	ppb	18:07:28
2	Mn 257.610†	212.0	7.8	0.0216	µg/L	0.0216	ppb	18:07:48
2	Mo 202.031†	-10.1	-1.3	-0.1419	µg/L	-0.1419	ppb	18:07:48
2	Ni 231.604†	-64.7	-22.2	-0.6631	µg/L	-0.6631	ppb	18:07:48
2	P 214.914†	-67.5	-7.8	-8.2886	µg/L	-8.2886	ppb	18:07:48
2	Pb 220.353†	104.2	2.2	0.4949	µg/L	0.4949	ppb	18:07:48

2	S 181.975 Axial†	28.0	5.2	17.086	µg/L	17.086	ppb	18:07:48
2	Sb 206.836†	4.6	-0.7	-0.4598	µg/L	-0.4598	ppb	18:07:48
2	Se 196.026†	15.6	4.6	6.20	µg/L	6.20	ppb	18:07:48
2	SiO2†	1821.7	9.5	1.7566	µg/L	1.7566	ppb	18:07:48
2	Si 251.611†	370.9	-40.4	-1.1872	µg/L	-1.1872	ppb	18:07:48
2	Sn 189.927†	-2.2	-0.4	-0.1477	µg/L	-0.1477	ppb	18:07:48
2	Ti 334.940†	1530.0	-47.1	-0.0774	µg/L	-0.0774	ppb	18:07:28
2	Tl 190.801†	-19.4	-3.2	-3.8922	µg/L	-3.8922	ppb	18:07:48
2	U 367.007†	240.2	-73.6	-20.186	µg/L	-20.186	ppb	18:07:28
2	V 292.402†	457.1	97.1	0.6711	µg/L	0.6711	ppb	18:07:28
2	Zn 213.857†	551.0	10.8	0.1407	µg/L	0.1407	ppb	18:07:48
3	Sc RADIAL	22103.7	22103.7	100	%			18:06:25
3	Al 396.153Radial†	-87.0	4.5	7.1762	µg/L	7.1762	ppb	18:06:25
3	Ca 317.933Radial†	87.0	4.4	3.0227	µg/L	3.0227	ppb	18:06:45
3	Fe 238.204 Radial†	25.0	-3.2	-10.875	µg/L	-10.875	ppb	18:06:45
3	K 766.490 Radial†	617.6	-37.0	-45.828	µg/L	-45.828	ppb	18:06:25
3	Mg 279.077 IEC†	1.9	-2.4	-17.051	µg/L	-17.051	ppb	18:06:45
3	Na 589.592 Radial†	-28.3	4.7	3.6924	µg/L	3.6924	ppb	18:06:25
3	Sr 421.552†	38.4	4.7	0.0532	µg/L	0.0532	ppb	18:06:25
3	Sc 361.383	1251982.6	1251982.6	99.374	%			18:07:50
3	Y 371.029	740085.0	740085.0	99.322	%			18:07:50
3	Ag 328.068†	565.4	-100.8	-0.6724	µg/L	-0.6724	ppb	18:07:52
3	As 188.979†	-2.1	0.5	0.9334	µg/L	0.9334	ppb	18:08:12
3	B 249.677†	359.4	102.2	1.2957	µg/L	1.2957	ppb	18:08:12
3	Ba 233.527†	-90.0	-8.0	-0.1113	µg/L	-0.1113	ppb	18:08:12
3	Be 313.107†	-7080.4	-255.9	-0.1109	µg/L	-0.1109	ppb	18:07:52
3	Cd 226.502†	-104.3	4.6	0.0727	µg/L	0.0727	ppb	18:08:12
3	Co 228.616†	-95.3	2.5	0.0748	µg/L	0.0748	ppb	18:08:12
3	Cr 267.716†	118.1	-0.9	-0.0155	µg/L	-0.0155	ppb	18:08:12
3	Cu 324.752†	3931.2	94.1	0.6285	µg/L	0.6285	ppb	18:07:52
3	Mn 257.610†	223.4	19.6	0.0574	µg/L	0.0574	ppb	18:08:12
3	Mo 202.031†	-10.8	-2.1	-0.2327	µg/L	-0.2327	ppb	18:08:12
3	Ni 231.604†	-50.7	-8.2	-0.2438	µg/L	-0.2438	ppb	18:08:12
3	P 214.914†	-70.7	-11.1	-11.725	µg/L	-11.725	ppb	18:08:12
3	Pb 220.353†	111.5	9.7	2.0891	µg/L	2.0891	ppb	18:08:12
3	S 181.975 Axial†	26.8	4.1	13.326	µg/L	13.326	ppb	18:08:12
3	Sb 206.836†	4.8	-0.5	-0.3430	µg/L	-0.3430	ppb	18:08:12
3	Se 196.026†	11.5	0.4	0.605	µg/L	0.605	ppb	18:08:12
3	SiO2†	1857.0	47.4	8.7255	µg/L	8.7255	ppb	18:08:12
3	Si 251.611†	462.5	52.3	1.5412	µg/L	1.5412	ppb	18:08:12
3	Sn 189.927†	2.3	4.2	1.7045	µg/L	1.7045	ppb	18:08:12
3	Ti 334.940†	1569.7	-5.2	-0.0089	µg/L	-0.0089	ppb	18:07:52
3	Tl 190.801†	-6.9	9.3	11.302	µg/L	11.302	ppb	18:08:12
3	U 367.007†	309.7	-3.4	-0.8707	µg/L	-0.8707	ppb	18:07:52
3	V 292.402†	383.8	24.0	0.1639	µg/L	0.1639	ppb	18:07:52
3	Zn 213.857†	548.5	9.0	0.1174	µg/L	0.1174	ppb	18:08:12

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1254059.6	99.539	%	0.1841				0.18%
Sc RADIAL	22116.1	100	%	0.6				0.60%
Y 371.029	741596.2	99.525	%	0.1843				0.19%
Ag 328.068†	-59.1	-0.3892	µg/L	0.38159	-0.3892	ppb	0.38159	98.04%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-2.7	-4.2850	µg/L	9.92627	-4.2850	ppb	9.92627	231.65%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.9	-5.6746	µg/L	5.81989	-5.6746	ppb	5.81989	102.56%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	111.3	1.3662	µg/L	0.12272	1.3662	ppb	0.12272	8.98%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-7.6	-0.1060	µg/L	0.18156	-0.1060	ppb	0.18156	171.33%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-108.3	-0.0470	µg/L	0.05559	-0.0470	ppb	0.05559	118.39%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.4	5.7473	µg/L	2.67365	5.7473	ppb	2.67365	46.52%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	6.1	0.0953	µg/L	0.11715	0.0953	ppb	0.11715	122.87%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	1.0	0.0292	µg/L	0.07418	0.0292	ppb	0.07418	253.91%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -1.8     -0.0292 µg/L       0.21313     -0.0292 ppb        0.21313 730.99%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               103.3      0.6891 µg/L       0.10253      0.6891 ppb        0.10253  14.88%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -0.9     -3.0533 µg/L       7.12381     -3.0533 ppb        7.12381 233.31%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -18.8     -23.262 µg/L       22.9337     -23.262 ppb        22.9337  98.59%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            2.5      17.559 µg/L       30.0295      17.559 ppb        30.0295 171.02%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                7.3      0.0207 µg/L       0.03725      0.0207 ppb        0.03725 180.30%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                0.3      0.0367 µg/L       0.39054      0.0367 ppb        0.39054 >999.9%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         -2.2     -1.7100 µg/L       4.68484     -1.7100 ppb        4.68484 273.97%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -2.6     -0.0772 µg/L       0.68459     -0.0772 ppb        0.68459 886.74%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -11.6     -12.307 µg/L        4.3389     -12.307 ppb         4.3389  35.25%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                5.2      1.1214 µg/L       0.85008      1.1214 ppb        0.85008  75.80%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           3.7      12.039 µg/L        5.7991      12.039 ppb         5.7991  48.17%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -0.2     -0.1467 µg/L       0.44511     -0.1467 ppb        0.44511 303.51%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.8        1.08 µg/L         4.898        1.08 ppb          4.898 453.04%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     19.6      3.6059 µg/L       4.49030      3.6059 ppb        4.49030 124.53%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                -7.6     -0.2237 µg/L       1.53057     -0.2237 ppb        1.53057 684.28%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                1.0      0.3929 µg/L       1.14173      0.3929 ppb        1.14173 290.61%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               18.5      0.2110 µg/L       0.13679      0.2110 ppb        0.13679  64.81%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†               -77.1     -0.1405 µg/L       0.17202     -0.1405 ppb        0.17202 122.45%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                1.9      2.2852 µg/L       7.98533      2.2852 ppb        7.98533 349.44%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -20.9     -5.7267 µg/L      12.74560     -5.7267 ppb       12.74560 222.57%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                34.2      0.2377 µg/L       0.40165      0.2377 ppb        0.40165 168.98%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               12.3      0.1570 µg/L       0.04982      0.1570 ppb        0.04982  31.73%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

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Analysis Begun

Start Time: 11/6/2013 18:09:39 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110613.sif
Batch ID:
Results Data Set: 110613A
Results Library: C:\pe\optima4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 301**
Sample ID: 335304005|1339673|1 **Date Collected: 11/6/2013 18:09:42**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304005|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22146.3	22146.3	101	%			18:10:15
1	Al 396.153Radial†	-38.3	53.1	110.13	µg/L	110.13	ppb	18:10:15
1	Ca 317.933Radial†	72881.3	72390.3	49274	µg/L	49274	ppb	18:10:15
1	Fe 238.204 Radial†	5199.5	5142.2	17546	µg/L	17546	ppb	18:10:15
1	K 766.490 Radial†	204727.2	202926.8	251060	µg/L	251060	ppb	18:10:13
1	Mg 279.077 IEC†	9462.9	9405.5	66590	µg/L	66590	ppb	18:10:15
1	Na 589.592 Radial†	714894.9	710918.5	555930	µg/L	555930	ppb	18:10:13
1	Sr 421.552†	27753.9	27564.6	314.22	µg/L	314.22	ppb	18:10:15
1	Sc 361.383	1199242.9	1199242.9	95.188	%			18:10:42
1	Y 371.029	683550.5	683550.5	91.735	%			18:10:42
1	Ag 328.068†	869.6	243.9	0.0831	µg/L	0.0831	ppb	18:10:42
1	As 188.979†	7.7	10.6	23.927	µg/L	23.927	ppb	18:11:02
1	B 249.677†	257063.3	269799.0	3093.9	µg/L	3093.9	ppb	18:10:42
1	Ba 233.527†	39616.9	41702.2	586.01	µg/L	586.01	ppb	18:10:42
1	Be 313.107†	-7307.2	-807.5	-0.3500	µg/L	-0.3500	ppb	18:10:42
1	Cd 226.502†	42.5	154.2	0.1553	µg/L	0.1553	ppb	18:11:02
1	Co 228.616†	312.0	426.2	12.680	µg/L	12.680	ppb	18:11:02
1	Cr 267.716†	511.7	417.9	7.4888	µg/L	7.4888	ppb	18:11:02
1	Cu 324.752†	3624.8	-53.9	2.5009	µg/L	2.5009	ppb	18:10:42
1	Mn 257.610†	47048.8	49221.9	141.38	µg/L	141.38	ppb	18:10:42
1	Mo 202.031†	-60.6	-54.8	-3.5494	µg/L	-3.5494	ppb	18:11:02
1	Ni 231.604†	2147.3	2298.6	68.474	µg/L	68.474	ppb	18:11:02
1	P 214.914†	5409.4	5742.9	6067.9	µg/L	6067.9	ppb	18:11:02
1	Pb 220.353†	146.8	51.8	10.615	µg/L	10.615	ppb	18:11:02
1	S 181.975 Axial†	1273.4	1314.9	4292.8	µg/L	4292.8	ppb	18:11:02
1	Sb 206.836†	4.9	-0.2	0.3277	µg/L	0.3277	ppb	18:11:02
1	Se 196.026†	10.1	-0.5	5.26	µg/L	5.26	ppb	18:11:02
1	SiO2†	209115.8	217865.8	40097	µg/L	40097	ppb	18:10:42
1	Si 251.611†	606554.9	636804.3	18746	µg/L	18746	ppb	18:10:42
1	Sn 189.927†	47.9	52.2	25.725	µg/L	25.725	ppb	18:11:02
1	Ti 334.940†	4962.1	3628.2	8.9403	µg/L	8.9403	ppb	18:10:42
1	Tl 190.801†	-22.1	-6.9	-9.3553	µg/L	-9.3553	ppb	18:11:02
1	U 367.007†	769.3	493.2	34.664	µg/L	34.664	ppb	18:10:42
1	V 292.402†	418.3	77.1	3.2385	µg/L	3.2385	ppb	18:10:42
1	Zn 213.857†	4070.2	3733.1	44.203	µg/L	44.203	ppb	18:11:02
2	Sc RADIAL	21930.0	21930.0	99.6	%			18:10:20
2	Al 396.153Radial†	-53.6	37.4	84.950	µg/L	84.950	ppb	18:10:20
2	Ca 317.933Radial†	72234.2	72455.4	49318	µg/L	49318	ppb	18:10:20
2	Fe 238.204 Radial†	5187.6	5181.3	17679	µg/L	17679	ppb	18:10:20
2	K 766.490 Radial†	203908.1	204112.2	252530	µg/L	252530	ppb	18:10:18
2	Mg 279.077 IEC†	9338.1	9373.0	66360	µg/L	66360	ppb	18:10:20
2	Na 589.592 Radial†	712334.3	715359.1	559400	µg/L	559400	ppb	18:10:18
2	Sr 421.552†	27642.8	27725.3	316.05	µg/L	316.05	ppb	18:10:20
2	Sc 361.383	1187565.0	1187565.0	94.261	%			18:11:04
2	Y 371.029	676529.9	676529.9	90.793	%			18:11:04
2	Ag 328.068†	969.1	358.4	0.8633	µg/L	0.8633	ppb	18:11:04
2	As 188.979†	7.4	10.3	23.424	µg/L	23.424	ppb	18:11:24

2	B 249.677†	253668.3	268852.8	3081.4	µg/L	3081.4	ppb	18:11:04
2	Ba 233.527†	38890.2	41340.5	580.93	µg/L	580.93	ppb	18:11:04
2	Be 313.107†	-7224.4	-795.1	-0.3446	µg/L	-0.3446	ppb	18:11:04
2	Cd 226.502†	53.0	165.7	0.3187	µg/L	0.3187	ppb	18:11:24
2	Co 228.616†	314.1	431.6	12.836	µg/L	12.836	ppb	18:11:24
2	Cr 267.716†	522.0	434.1	7.8070	µg/L	7.8070	ppb	18:11:24
2	Cu 324.752†	3534.4	-112.3	2.1172	µg/L	2.1172	ppb	18:11:04
2	Mn 257.610†	46345.8	48962.3	140.64	µg/L	140.64	ppb	18:11:04
2	Mo 202.031†	-56.0	-50.6	-3.0770	µg/L	-3.0770	ppb	18:11:24
2	Ni 231.604†	2160.6	2335.0	69.556	µg/L	69.556	ppb	18:11:24
2	P 214.914†	5400.3	5789.1	6116.7	µg/L	6116.7	ppb	18:11:24
2	Pb 220.353†	132.1	37.7	7.5993	µg/L	7.5993	ppb	18:11:24
2	S 181.975 Axial†	1273.5	1328.1	4336.2	µg/L	4336.2	ppb	18:11:24
2	Sb 206.836†	3.5	-1.6	-0.5554	µg/L	-0.5554	ppb	18:11:24
2	Se 196.026†	14.3	4.1	11.6	µg/L	11.6	ppb	18:11:24
2	SiO2†	206399.9	217144.8	39965	µg/L	39965	ppb	18:11:04
2	Si 251.611†	598033.8	634030.5	18665	µg/L	18665	ppb	18:11:04
2	Sn 189.927†	52.3	57.3	27.804	µg/L	27.804	ppb	18:11:24
2	Ti 334.940†	4895.5	3608.8	8.9185	µg/L	8.9185	ppb	18:11:04
2	Tl 190.801†	-16.0	-0.7	-1.7485	µg/L	-1.7485	ppb	18:11:24
2	U 367.007†	689.8	416.8	13.045	µg/L	13.045	ppb	18:11:04
2	V 292.402†	326.8	-15.6	2.5993	µg/L	2.5993	ppb	18:11:04
2	Zn 213.857†	4072.0	3777.0	44.748	µg/L	44.748	ppb	18:11:24
3	Sc RADIAL	22039.8	22039.8	100	%			18:10:24
3	Al 396.153Radial†	-77.4	13.9	47.320	µg/L	47.320	ppb	18:10:24
3	Ca 317.933Radial†	72775.2	72634.6	49440	µg/L	49440	ppb	18:10:24
3	Fe 238.204 Radial†	5193.4	5161.1	17610	µg/L	17610	ppb	18:10:24
3	K 766.490 Radial†	204866.6	204049.9	252450	µg/L	252450	ppb	18:10:22
3	Mg 279.077 IEC†	9457.8	9445.9	66876	µg/L	66876	ppb	18:10:24
3	Na 589.592 Radial†	714716.9	714176.2	558480	µg/L	558480	ppb	18:10:22
3	Sr 421.552†	27836.2	27780.3	316.68	µg/L	316.68	ppb	18:10:24
3	Sc 361.383	1197706.6	1197706.6	95.066	%			18:11:27
3	Y 371.029	682735.6	682735.6	91.626	%			18:11:27
3	Ag 328.068†	848.1	222.4	-0.0577	µg/L	-0.0577	ppb	18:11:27
3	As 188.979†	0.6	3.2	9.3051	µg/L	9.3051	ppb	18:11:47
3	B 249.677†	258065.2	271199.2	3110.0	µg/L	3110.0	ppb	18:11:27
3	Ba 233.527†	39602.8	41740.8	586.56	µg/L	586.56	ppb	18:11:27
3	Be 313.107†	-7169.6	-672.5	-0.2915	µg/L	-0.2915	ppb	18:11:27
3	Cd 226.502†	53.7	166.0	0.3316	µg/L	0.3316	ppb	18:11:47
3	Co 228.616†	311.6	426.2	12.680	µg/L	12.680	ppb	18:11:47
3	Cr 267.716†	515.0	422.0	7.5683	µg/L	7.5683	ppb	18:11:47
3	Cu 324.752†	3703.7	34.1	3.0968	µg/L	3.0968	ppb	18:11:27
3	Mn 257.610†	47135.0	49376.0	141.82	µg/L	141.82	ppb	18:11:27
3	Mo 202.031†	-61.3	-55.6	-3.6252	µg/L	-3.6252	ppb	18:11:47
3	Ni 231.604†	2148.5	2302.8	68.599	µg/L	68.599	ppb	18:11:47
3	P 214.914†	5414.5	5755.5	6081.1	µg/L	6081.1	ppb	18:11:47
3	Pb 220.353†	150.5	55.8	11.480	µg/L	11.480	ppb	18:11:47
3	S 181.975 Axial†	1271.3	1314.4	4291.2	µg/L	4291.2	ppb	18:11:47
3	Sb 206.836†	5.7	0.7	0.8585	µg/L	0.8585	ppb	18:11:47
3	Se 196.026†	5.0	-5.9	-1.97	µg/L	-1.97	ppb	18:11:47
3	SiO2†	209277.3	218317.5	40180	µg/L	40180	ppb	18:11:27
3	Si 251.611†	607304.4	638410.1	18794	µg/L	18794	ppb	18:11:27
3	Sn 189.927†	54.1	58.7	28.387	µg/L	28.387	ppb	18:11:47
3	Ti 334.940†	4873.8	3542.0	8.7910	µg/L	8.7910	ppb	18:11:27
3	Tl 190.801†	-14.1	1.4	0.8025	µg/L	0.8025	ppb	18:11:47
3	U 367.007†	740.8	464.3	26.371	µg/L	26.371	ppb	18:11:27
3	V 292.402†	439.9	100.4	3.4072	µg/L	3.4072	ppb	18:11:27
3	Zn 213.857†	4078.4	3747.2	44.370	µg/L	44.370	ppb	18:11:47

Mean Data: 335304005|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1194838.2	94.838	%	0.5037				0.53%
Sc RADIAL	22038.7	100	%	0.5				0.49%
Y 371.029	680938.7	91.384	%	0.5153				0.56%
Ag 328.068†	274.9	0.2962	µg/L	0.49609	0.2962	ppb	0.49609	167.48%
Al 396.153Radial†	34.8	80.799	µg/L	31.6085	80.799	ppb	31.6085	39.12%
As 188.979†	8.0	18.885	µg/L	8.3006	18.885	ppb	8.3006	43.95%
B 249.677†	269950.3	3095.1	µg/L	14.37	3095.1	ppb	14.37	0.46%
Ba 233.527†	41594.5	584.50	µg/L	3.106	584.50	ppb	3.106	0.53%

Be 313.107†	-758.4	-0.3287	µg/L	0.03233	-0.3287	ppb	0.03233	9.84%
Ca 317.933Radial†	72493.4	49344	µg/L	86.1	49344	ppb	86.1	0.17%
Cd 226.502†	162.0	0.2685	µg/L	0.09826	0.2685	ppb	0.09826	36.59%
Co 228.616†	428.0	12.732	µg/L	0.0899	12.732	ppb	0.0899	0.71%
Cr 267.716†	424.7	7.6213	µg/L	0.16565	7.6213	ppb	0.16565	2.17%
Cu 324.752†	-44.0	2.5716	µg/L	0.49361	2.5716	ppb	0.49361	19.19%
Fe 238.204 Radial†	5161.5	17612	µg/L	66.7	17612	ppb	66.7	0.38%
K 766.490 Radial†	203696.3	252010	µg/L	825.4	252010	ppb	825.4	0.33%
Mg 279.077 IEC†	9408.1	66609	µg/L	258.4	66609	ppb	258.4	0.39%
Mn 257.610†	49186.7	141.28	µg/L	0.599	141.28	ppb	0.599	0.42%
Mo 202.031†	-53.7	-3.4172	µg/L	0.29708	-3.4172	ppb	0.29708	8.69%
Na 589.592 Radial†	713484.6	557940	µg/L	1798.3	557940	ppb	1798.3	0.32%
Concentration greater than upper limit for Na 589.592 Radial.								
Ni 231.604†	2312.1	68.877	µg/L	0.5922	68.877	ppb	0.5922	0.86%
P 214.914†	5762.5	6088.5	µg/L	25.25	6088.5	ppb	25.25	0.41%
Pb 220.353†	48.4	9.8983	µg/L	2.03743	9.8983	ppb	2.03743	20.58%
S 181.975 Axial†	1319.1	4306.7	µg/L	25.50	4306.7	ppb	25.50	0.59%
Sb 206.836†	-0.4	0.2103	µg/L	0.71423	0.2103	ppb	0.71423	339.66%
Se 196.026†	-0.8	4.95	µg/L	6.775	4.95	ppb	6.775	136.79%
SiO2†	217776.0	40081	µg/L	108.9	40081	ppb	108.9	0.27%
Si 251.611†	636415.0	18735	µg/L	65.2	18735	ppb	65.2	0.35%
Sn 189.927†	56.1	27.305	µg/L	1.3994	27.305	ppb	1.3994	5.13%
Sr 421.552†	27690.0	315.65	µg/L	1.279	315.65	ppb	1.279	0.41%
Ti 334.940†	3593.0	8.8833	µg/L	0.08066	8.8833	ppb	0.08066	0.91%
Tl 190.801†	-2.1	-3.4338	µg/L	5.28445	-3.4338	ppb	5.28445	153.90%
U 367.007†	458.1	24.694	µg/L	10.9070	24.694	ppb	10.9070	44.17%
V 292.402†	54.0	3.0817	µg/L	0.42617	3.0817	ppb	0.42617	13.83%
Zn 213.857†	3752.4	44.440	µg/L	0.2791	44.440	ppb	0.2791	0.63%

Sequence No.: 2
Sample ID: 335304006|1339673|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 302
Date Collected: 11/6/2013 18:11:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304006|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21188.9	21188.9	96.2	%			18:12:27
1	Al 396.153Radial†	-70.9	17.4	51.986	µg/L	51.986	ppb	18:12:27
1	Ca 317.933Radial†	67359.9	69926.2	47596	µg/L	47596	ppb	18:12:27
1	Fe 238.204 Radial†	4288.4	4428.9	15112	µg/L	15112	ppb	18:12:27
1	K 766.490 Radial†	197183.6	204284.5	252730	µg/L	252730	ppb	18:12:25
1	Mg 279.077 IEC†	8845.7	9189.2	65058	µg/L	65058	ppb	18:12:27
1	Na 589.592 Radial†	708142.9	736019.6	575560	µg/L	575560	ppb	18:12:25
1	Sr 421.552†	25912.1	26897.4	306.61	µg/L	306.61	ppb	18:12:27
1	Sc 361.383	1212980.8	1212980.8	96.278	%			18:12:53
1	Y 371.029	691546.4	691546.4	92.808	%			18:12:53
1	Ag 328.068†	1013.2	382.7	1.1046	µg/L	1.1046	ppb	18:12:53
1	As 188.979†	4.0	6.7	15.829	µg/L	15.829	ppb	18:13:13
1	B 249.677†	261546.1	271396.4	3121.7	µg/L	3121.7	ppb	18:12:53
1	Ba 233.527†	38401.5	39968.4	561.67	µg/L	561.67	ppb	18:12:53
1	Be 313.107†	-7349.8	-764.8	-0.3315	µg/L	-0.3315	ppb	18:12:53
1	Cd 226.502†	33.2	144.0	0.2978	µg/L	0.2978	ppb	18:13:13
1	Co 228.616†	202.1	308.4	9.2215	µg/L	9.2215	ppb	18:13:13
1	Cr 267.716†	501.4	401.0	7.1342	µg/L	7.1342	ppb	18:13:13
1	Cu 324.752†	2817.9	-935.0	-3.7696	µg/L	-3.7696	ppb	18:12:53
1	Mn 257.610†	41443.6	42840.3	122.78	µg/L	122.78	ppb	18:12:53
1	Mo 202.031†	-79.6	-73.8	-5.7898	µg/L	-5.7898	ppb	18:13:13
1	Ni 231.604†	1298.0	1391.0	41.412	µg/L	41.412	ppb	18:13:13
1	P 214.914†	4943.3	5194.4	5489.4	µg/L	5489.4	ppb	18:13:13
1	Pb 220.353†	130.7	33.3	6.7249	µg/L	6.7249	ppb	18:13:13
1	S 181.975 Axial†	1283.2	1309.8	4276.9	µg/L	4276.9	ppb	18:13:13
1	Sb 206.836†	1.4	-3.9	-2.1248	µg/L	-2.1248	ppb	18:13:13
1	Se 196.026†	4.0	-6.9	-4.32	µg/L	-4.32	ppb	18:13:13
1	SiO2†	208881.7	215134.5	39595	µg/L	39595	ppb	18:12:53
1	Si 251.611†	606542.8	629574.9	18533	µg/L	18533	ppb	18:12:53
1	Sn 189.927†	30.6	33.6	18.019	µg/L	18.019	ppb	18:13:13
1	Ti 334.940†	3920.6	2487.4	6.7521	µg/L	6.7521	ppb	18:12:53
1	Tl 190.801†	-15.5	0.1	-0.7226	µg/L	-0.7226	ppb	18:13:13
1	U 367.007†	657.4	367.8	12.985	µg/L	12.985	ppb	18:12:53
1	V 292.402†	464.1	119.7	3.1217	µg/L	3.1217	ppb	18:12:53
1	Zn 213.857†	1493.7	1008.5	9.8879	µg/L	9.8879	ppb	18:13:13
2	Sc RADIAL	21146.6	21146.6	96.0	%			18:12:31
2	Al 396.153Radial†	-96.5	-9.3	9.0410	µg/L	9.0410	ppb	18:12:31
2	Ca 317.933Radial†	67026.0	69718.5	47455	µg/L	47455	ppb	18:12:31
2	Fe 238.204 Radial†	4275.4	4424.3	15096	µg/L	15096	ppb	18:12:31
2	K 766.490 Radial†	197962.1	205505.2	254240	µg/L	254240	ppb	18:12:29
2	Mg 279.077 IEC†	8691.1	9046.6	64049	µg/L	64049	ppb	18:12:31
2	Na 589.592 Radial†	709890.0	739311.4	578130	µg/L	578130	ppb	18:12:29
2	Sr 421.552†	25856.6	26893.4	306.57	µg/L	306.57	ppb	18:12:31
2	Sc 361.383	1207146.8	1207146.8	95.815	%			18:13:15
2	Y 371.029	688130.1	688130.1	92.350	%			18:13:15
2	Ag 328.068†	808.0	173.5	-0.2676	µg/L	-0.2676	ppb	18:13:15
2	As 188.979†	-4.0	-1.6	-0.6341	µg/L	-0.6341	ppb	18:13:35
2	B 249.677†	260237.7	271343.7	3120.5	µg/L	3120.5	ppb	18:13:15
2	Ba 233.527†	38173.1	39922.8	561.03	µg/L	561.03	ppb	18:13:15
2	Be 313.107†	-7372.5	-825.3	-0.3577	µg/L	-0.3577	ppb	18:13:15
2	Cd 226.502†	19.3	129.7	0.0756	µg/L	0.0756	ppb	18:13:35
2	Co 228.616†	208.9	316.4	9.4574	µg/L	9.4574	ppb	18:13:35
2	Cr 267.716†	480.9	382.2	6.8173	µg/L	6.8173	ppb	18:13:35
2	Cu 324.752†	3024.5	-705.2	-2.2499	µg/L	-2.2499	ppb	18:13:15
2	Mn 257.610†	41133.0	42724.1	122.48	µg/L	122.48	ppb	18:13:15
2	Mo 202.031†	-79.1	-73.8	-5.8175	µg/L	-5.8175	ppb	18:13:35
2	Ni 231.604†	1286.7	1385.7	41.256	µg/L	41.256	ppb	18:13:35
2	P 214.914†	4952.6	5229.0	5526.0	µg/L	5526.0	ppb	18:13:35
2	Pb 220.353†	123.8	26.7	5.3291	µg/L	5.3291	ppb	18:13:35

2	S 181.975 Axial†	1283.4	1316.5	4298.9	µg/L	4298.9	ppb	18:13:35
2	Sb 206.836†	4.2	-1.0	-0.2627	µg/L	-0.2627	ppb	18:13:35
2	Se 196.026†	12.0	1.5	7.13	µg/L	7.13	ppb	18:13:35
2	SiO2†	208124.2	215392.4	39642	µg/L	39642	ppb	18:13:15
2	Si 251.611†	602819.7	628733.8	18509	µg/L	18509	ppb	18:13:15
2	Sn 189.927†	44.1	47.9	23.808	µg/L	23.808	ppb	18:13:35
2	Ti 334.940†	3920.8	2507.3	6.8012	µg/L	6.8012	ppb	18:13:15
2	Tl 190.801†	-11.9	3.8	3.8066	µg/L	3.8066	ppb	18:13:35
2	U 367.007†	558.8	268.2	-14.171	µg/L	-14.171	ppb	18:13:15
2	V 292.402†	354.0	7.2	2.3094	µg/L	2.3094	ppb	18:13:15
2	Zn 213.857†	1487.0	1009.0	9.9152	µg/L	9.9152	ppb	18:13:35
3	Sc RADIAL	21084.9	21084.9	95.7	%			18:12:35
3	Al 396.153Radial†	-40.6	48.8	102.34	µg/L	102.34	ppb	18:12:35
3	Ca 317.933Radial†	67244.4	70151.0	47750	µg/L	47750	ppb	18:12:35
3	Fe 238.204 Radial†	4223.2	4382.8	14955	µg/L	14955	ppb	18:12:35
3	K 766.490 Radial†	200070.8	208311.3	257720	µg/L	257720	ppb	18:12:33
3	Mg 279.077 IEC†	8727.1	9110.7	64502	µg/L	64502	ppb	18:12:35
3	Na 589.592 Radial†	712864.4	744582.8	582260	µg/L	582260	ppb	18:12:33
3	Sr 421.552†	25870.9	26987.2	307.64	µg/L	307.64	ppb	18:12:35
3	Sc 361.383	1219002.8	1219002.8	96.756	%			18:13:38
3	Y 371.029	694509.4	694509.4	93.206	%			18:13:38
3	Ag 328.068†	869.0	228.4	0.0643	µg/L	0.0643	ppb	18:13:38
3	As 188.979†	5.0	7.8	17.849	µg/L	17.849	ppb	18:13:58
3	B 249.677†	264613.2	273224.3	3142.4	µg/L	3142.4	ppb	18:13:38
3	Ba 233.527†	38886.6	40272.8	565.95	µg/L	565.95	ppb	18:13:38
3	Be 313.107†	-7263.3	-637.7	-0.2764	µg/L	-0.2764	ppb	18:13:38
3	Cd 226.502†	7.3	117.1	-0.1023	µg/L	-0.1023	ppb	18:13:58
3	Co 228.616†	210.7	316.1	9.4539	µg/L	9.4539	ppb	18:13:58
3	Cr 267.716†	470.6	366.7	6.5007	µg/L	6.5007	ppb	18:13:58
3	Cu 324.752†	2920.4	-843.6	-3.1791	µg/L	-3.1791	ppb	18:13:38
3	Mn 257.610†	41938.0	43138.7	123.67	µg/L	123.67	ppb	18:13:38
3	Mo 202.031†	-74.4	-68.1	-5.1615	µg/L	-5.1615	ppb	18:13:58
3	Ni 231.604†	1306.3	1392.9	41.470	µg/L	41.470	ppb	18:13:58
3	P 214.914†	4955.7	5181.9	5476.3	µg/L	5476.3	ppb	18:13:58
3	Pb 220.353†	109.0	10.2	1.7604	µg/L	1.7604	ppb	18:13:58
3	S 181.975 Axial†	1291.0	1311.4	4281.9	µg/L	4281.9	ppb	18:13:58
3	Sb 206.836†	8.5	3.4	2.5070	µg/L	2.5070	ppb	18:13:58
3	Se 196.026†	11.9	1.2	6.73	µg/L	6.73	ppb	18:13:58
3	SiO2†	211248.0	216508.3	39847	µg/L	39847	ppb	18:13:38
3	Si 251.611†	612711.0	632837.7	18629	µg/L	18629	ppb	18:13:38
3	Sn 189.927†	45.5	48.9	24.230	µg/L	24.230	ppb	18:13:58
3	Ti 334.940†	4046.0	2596.8	6.9643	µg/L	6.9643	ppb	18:13:38
3	Tl 190.801†	-5.8	10.3	11.637	µg/L	11.637	ppb	18:13:58
3	U 367.007†	681.5	389.4	19.699	µg/L	19.699	ppb	18:13:38
3	V 292.402†	397.2	48.2	2.6035	µg/L	2.6035	ppb	18:13:38
3	Zn 213.857†	1505.4	1012.9	9.9701	µg/L	9.9701	ppb	18:13:58

Mean Data: 335304006|1339673|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1213043.4	96.283	%	0.4705				0.49%
Sc RADIAL	21140.1	96.0	%	0.24				0.25%
Y 371.029	691395.3	92.788	%	0.4284				0.46%
Ag 328.068†	261.5	0.3004	µg/L	0.71589	0.3004	ppb	0.71589	238.30%
Al 396.153Radial†	19.0	54.455	µg/L	46.6979	54.455	ppb	46.6979	85.75%
As 188.979†	4.3	11.015	µg/L	10.1386	11.015	ppb	10.1386	92.05%
B 249.677†	271988.1	3128.2	µg/L	12.29	3128.2	ppb	12.29	0.39%
Ba 233.527†	40054.7	562.88	µg/L	2.675	562.88	ppb	2.675	0.48%
Be 313.107†	-742.6	-0.3219	µg/L	0.04151	-0.3219	ppb	0.04151	12.90%
Ca 317.933Radial†	69931.9	47600	µg/L	147.2	47600	ppb	147.2	0.31%
Cd 226.502†	130.3	0.0904	µg/L	0.20046	0.0904	ppb	0.20046	221.76%
Co 228.616†	313.6	9.3776	µg/L	0.13517	9.3776	ppb	0.13517	1.44%
Cr 267.716†	383.3	6.8174	µg/L	0.31674	6.8174	ppb	0.31674	4.65%
Cu 324.752†	-827.9	-3.0662	µg/L	0.76613	-3.0662	ppb	0.76613	24.99%
Fe 238.204 Radial†	4412.0	15054	µg/L	86.7	15054	ppb	86.7	0.58%
K 766.490 Radial†	206033.7	254900	µg/L	2555.5	254900	ppb	2555.5	1.00%
Mg 279.077 IEC†	9115.5	64536	µg/L	505.8	64536	ppb	505.8	0.78%
Mn 257.610†	42901.0	122.98	µg/L	0.618	122.98	ppb	0.618	0.50%
Mo 202.031†	-71.9	-5.5896	µg/L	0.37100	-5.5896	ppb	0.37100	6.64%
Na 589.592 Radial†	739971.3	578650	µg/L	3377.8	578650	ppb	3377.8	0.58%

Concentration greater than upper limit for Na 589.592 Radial.

Ni 231.604†	1389.9	41.379	µg/L	0.1106	41.379	ppb	0.1106	0.27%
P 214.914†	5201.8	5497.3	µg/L	25.78	5497.3	ppb	25.78	0.47%
Pb 220.353†	23.4	4.6048	µg/L	2.56032	4.6048	ppb	2.56032	55.60%
S 181.975 Axial†	1312.6	4285.9	µg/L	11.55	4285.9	ppb	11.55	0.27%
Sb 206.836†	-0.5	0.0399	µg/L	2.33067	0.0399	ppb	2.33067	>999.9%
Se 196.026†	-1.4	3.18	µg/L	6.500	3.18	ppb	6.500	204.40%
SiO2†	215678.4	39695	µg/L	134.4	39695	ppb	134.4	0.34%
Si 251.611†	630382.1	18557	µg/L	63.8	18557	ppb	63.8	0.34%
Sn 189.927†	43.5	22.019	µg/L	3.4706	22.019	ppb	3.4706	15.76%
Sr 421.552†	26926.0	306.94	µg/L	0.604	306.94	ppb	0.604	0.20%
Ti 334.940†	2530.5	6.8392	µg/L	0.11108	6.8392	ppb	0.11108	1.62%
Tl 190.801†	4.7	4.9070	µg/L	6.25286	4.9070	ppb	6.25286	127.43%
U 367.007†	341.8	6.1712	µg/L	17.93362	6.1712	ppb	17.93362	290.60%
V 292.402†	58.4	2.6782	µg/L	0.41130	2.6782	ppb	0.41130	15.36%
Zn 213.857†	1010.1	9.9244	µg/L	0.04188	9.9244	ppb	0.04188	0.42%

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Sequence No.: 4 **Autosampler Location: 304**
Sample ID: 335304008|1339673|1 **Date Collected: 11/6/2013 18:16:17**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304008|1339673|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22918.5	22918.5	104	%			18:16:49
1	Al 396.153Radial†	-95.5	-0.6	139.74	µg/L	139.74	ppb	18:16:49
1	Ca 317.933Radial†	422711.0	406094.8	276490	µg/L	276490	ppb	18:16:47
1	Fe 238.204 Radial†	11024.8	10565.4	36051	µg/L	36051	ppb	18:16:49
1	K 766.490 Radial†	21623.6	20125.5	24786	µg/L	24786	ppb	18:16:49
1	Mg 279.077 IEC†	13360.8	12833.9	90865	µg/L	90865	ppb	18:16:49
1	Na 589.592 Radial†	470214.6	451855.5	353350	µg/L	353350	ppb	18:16:47
1	Sr 421.552†	79012.8	75888.6	863.98	µg/L	863.98	ppb	18:16:47
1	Sc 361.383	1265654.7	1265654.7	100.46	%			18:17:15
1	Y 371.029	722926.1	722926.1	97.019	%			18:17:15
1	Ag 328.068†	1936.9	1258.4	0.7043	µg/L	0.7043	ppb	18:17:15
1	As 188.979†	-4.2	-1.6	2.9342	µg/L	2.9342	ppb	18:17:35
1	B 249.677†	127295.1	126453.6	1383.0	µg/L	1383.0	ppb	18:17:15
1	Ba 233.527†	156068.1	155437.0	2184.6	µg/L	2184.6	ppb	18:17:15
1	Be 313.107†	-7434.0	-530.9	-0.2301	µg/L	-0.2301	ppb	18:17:15
1	Cd 226.502†	178.6	287.3	-0.2200	µg/L	-0.2200	ppb	18:17:35
1	Co 228.616†	77.8	175.9	6.0325	µg/L	6.0325	ppb	18:17:35
1	Cr 267.716†	216.4	95.7	1.7921	µg/L	1.7921	ppb	18:17:35
1	Cu 324.752†	2254.3	-1617.9	-5.2231	µg/L	-5.2231	ppb	18:17:15
1	Mn 257.610†	212442.7	211266.0	613.22	µg/L	613.22	ppb	18:17:15
1	Mo 202.031†	-100.8	-91.5	-6.5199	µg/L	-6.5199	ppb	18:17:35
1	Ni 231.604†	515.0	555.5	16.380	µg/L	16.380	ppb	18:17:35
1	P 214.914†	684.2	741.1	738.26	µg/L	738.26	ppb	18:17:35
1	Pb 220.353†	119.2	16.2	2.4738	µg/L	2.4738	ppb	18:17:35
1	S 181.975 Axial†	729.5	703.2	2266.3	µg/L	2266.3	ppb	18:17:35
1	Sb 206.836†	6.8	1.4	1.8379	µg/L	1.8379	ppb	18:17:35
1	Se 196.026†	8.8	-2.4	9.34	µg/L	9.34	ppb	18:17:35
1	SiO2†	210845.3	208059.9	38292	µg/L	38292	ppb	18:17:15
1	Si 251.611†	612159.9	608947.4	17929	µg/L	17929	ppb	18:17:15
1	Sn 189.927†	-89.6	-87.3	-10.475	µg/L	-10.475	ppb	18:17:35
1	Ti 334.940†	-6520.4	-8075.3	-1.0008	µg/L	-1.0008	ppb	18:17:15
1	Tl 190.801†	-4.2	12.0	10.187	µg/L	10.187	ppb	18:17:35
1	U 367.007†	1185.3	864.8	1.9718	µg/L	1.9718	ppb	18:17:15
1	V 292.402†	-244.1	-605.2	1.2659	µg/L	1.2659	ppb	18:17:15
1	Zn 213.857†	1293.6	744.8	4.0928	µg/L	4.0928	ppb	18:17:35
2	Sc RADIAL	23074.2	23074.2	105	%			18:16:53
2	Al 396.153Radial†	-140.2	-42.6	75.018	µg/L	75.018	ppb	18:16:53
2	Ca 317.933Radial†	433757.6	413897.0	281800	µg/L	281800	ppb	18:16:51
2	Fe 238.204 Radial†	11094.5	10560.5	36034	µg/L	36034	ppb	18:16:53
2	K 766.490 Radial†	21707.1	20065.0	24708	µg/L	24708	ppb	18:16:53
2	Mg 279.077 IEC†	13551.0	12928.8	91537	µg/L	91537	ppb	18:16:53
2	Na 589.592 Radial†	482677.4	460701.4	360260	µg/L	360260	ppb	18:16:51
2	Sr 421.552†	80754.4	77038.6	877.06	µg/L	877.06	ppb	18:16:51
2	Sc 361.383	1262715.8	1262715.8	100.23	%			18:17:37
2	Y 371.029	720565.6	720565.6	96.702	%			18:17:37
2	Ag 328.068†	1925.2	1251.1	0.5459	µg/L	0.5459	ppb	18:17:37
2	As 188.979†	-1.8	0.7	7.5149	µg/L	7.5149	ppb	18:17:57
2	B 249.677†	127868.8	127320.8	1393.6	µg/L	1393.6	ppb	18:17:37
2	Ba 233.527†	156256.5	155986.5	2192.3	µg/L	2192.3	ppb	18:17:37
2	Be 313.107†	-7601.1	-714.8	-0.3098	µg/L	-0.3098	ppb	18:17:37
2	Cd 226.502†	168.3	277.4	-0.3722	µg/L	-0.3722	ppb	18:17:57
2	Co 228.616†	60.7	159.0	5.5410	µg/L	5.5410	ppb	18:17:57
2	Cr 267.716†	231.3	111.1	2.0856	µg/L	2.0856	ppb	18:17:57
2	Cu 324.752†	2147.1	-1719.6	-5.9187	µg/L	-5.9187	ppb	18:17:37
2	Mn 257.610†	212675.5	211990.4	615.30	µg/L	615.30	ppb	18:17:37
2	Mo 202.031†	-88.4	-79.4	-5.1266	µg/L	-5.1266	ppb	18:17:57
2	Ni 231.604†	505.6	547.3	16.136	µg/L	16.136	ppb	18:17:57
2	P 214.914†	702.0	760.5	758.80	µg/L	758.80	ppb	18:17:57
2	Pb 220.353†	109.1	6.4	0.3970	µg/L	0.3970	ppb	18:17:57

2	S 181.975 Axial†	734.1	709.5	2286.5	µg/L	2286.5	ppb	18:17:57
2	Sb 206.836†	11.0	5.6	4.4953	µg/L	4.4953	ppb	18:17:57
2	Se 196.026†	9.4	-1.7	10.2	µg/L	10.2	ppb	18:17:57
2	SiO2†	211021.7	208724.4	38415	µg/L	38415	ppb	18:17:37
2	Si 251.611†	613023.9	611227.8	17996	µg/L	17996	ppb	18:17:37
2	Sn 189.927†	-83.8	-81.8	-7.7228	µg/L	-7.7228	ppb	18:17:57
2	Ti 334.940†	-6338.1	-7908.5	-0.3969	µg/L	-0.3969	ppb	18:17:37
2	Tl 190.801†	-8.0	8.3	5.6270	µg/L	5.6270	ppb	18:17:57
2	U 367.007†	1073.9	756.5	-28.610	µg/L	-28.610	ppb	18:17:37
2	V 292.402†	-226.3	-588.1	1.3840	µg/L	1.3840	ppb	18:17:37
2	Zn 213.857†	1307.6	761.7	4.3003	µg/L	4.3003	ppb	18:17:57
3	Sc RADIAL	23133.9	23133.9	105	%			18:16:57
3	Al 396.153Radial†	-129.2	-31.8	92.433	µg/L	92.433	ppb	18:16:57
3	Ca 317.933Radial†	435042.2	414051.7	281900	µg/L	281900	ppb	18:16:55
3	Fe 238.204 Radial†	11173.0	10607.9	36196	µg/L	36196	ppb	18:16:57
3	K 766.490 Radial†	21803.8	20103.6	24757	µg/L	24757	ppb	18:16:57
3	Mg 279.077 IEC†	13541.8	12886.7	91239	µg/L	91239	ppb	18:16:57
3	Na 589.592 Radial†	481877.4	458751.1	358740	µg/L	358740	ppb	18:16:55
3	Sr 421.552†	81054.6	77125.4	878.05	µg/L	878.05	ppb	18:16:55
3	Sc 361.383	1211384.5	1211384.5	96.152	%			18:18:00
3	Y 371.029	691329.6	691329.6	92.779	%			18:18:00
3	Ag 328.068†	1822.6	1225.9	0.3518	µg/L	0.3518	ppb	18:18:00
3	As 188.979†	-4.4	-2.0	2.2224	µg/L	2.2224	ppb	18:18:20
3	B 249.677†	122768.1	127422.1	1394.1	µg/L	1394.1	ppb	18:18:00
3	Ba 233.527†	149863.5	155944.0	2191.7	µg/L	2191.7	ppb	18:18:00
3	Be 313.107†	-7169.5	-587.3	-0.2545	µg/L	-0.2545	ppb	18:18:00
3	Cd 226.502†	144.6	259.8	-0.6679	µg/L	-0.6679	ppb	18:18:20
3	Co 228.616†	58.5	159.3	5.5449	µg/L	5.5449	ppb	18:18:20
3	Cr 267.716†	192.2	80.1	1.5128	µg/L	1.5128	ppb	18:18:20
3	Cu 324.752†	2182.5	-1592.0	-5.0308	µg/L	-5.0308	ppb	18:18:00
3	Mn 257.610†	204095.5	212058.7	615.52	µg/L	615.52	ppb	18:18:00
3	Mo 202.031†	-100.0	-95.2	-6.9146	µg/L	-6.9146	ppb	18:18:20
3	Ni 231.604†	494.2	556.8	16.418	µg/L	16.418	ppb	18:18:20
3	P 214.914†	653.9	740.1	737.01	µg/L	737.01	ppb	18:18:20
3	Pb 220.353†	122.8	25.3	4.4120	µg/L	4.4120	ppb	18:18:20
3	S 181.975 Axial†	688.8	693.5	2234.0	µg/L	2234.0	ppb	18:18:20
3	Sb 206.836†	6.0	0.9	1.5442	µg/L	1.5442	ppb	18:18:20
3	Se 196.026†	7.3	-3.5	7.86	µg/L	7.86	ppb	18:18:20
3	SiO2†	202984.0	209286.7	38518	µg/L	38518	ppb	18:18:00
3	Si 251.611†	589921.9	613118.9	18051	µg/L	18051	ppb	18:18:00
3	Sn 189.927†	-73.8	-74.9	-4.9443	µg/L	-4.9443	ppb	18:18:20
3	Ti 334.940†	-6124.9	-7954.8	-0.4876	µg/L	-0.4876	ppb	18:18:00
3	Tl 190.801†	-11.1	4.7	1.2303	µg/L	1.2303	ppb	18:18:20
3	U 367.007†	1111.5	841.0	-6.2615	µg/L	-6.2615	ppb	18:18:00
3	V 292.402†	-191.8	-561.8	1.5850	µg/L	1.5850	ppb	18:18:00
3	Zn 213.857†	1261.6	769.2	4.3824	µg/L	4.3824	ppb	18:18:20

Mean Data: 335304008|1339673|1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1246585.0	98.946	%	2.4225				2.45%
Sc RADIAL	23042.2	105	%	0.5				0.48%
Y 371.029	711607.1	95.500	%	2.3620				2.47%
Ag 328.068†	1245.1	0.5340	µg/L	0.17658	0.5340	ppb	0.17658	33.07%
Al 396.153Radial†	-25.0	102.40	µg/L	33.490	102.40	ppb	33.490	32.71%
As 188.979†	-1.0	4.2238	µg/L	2.87229	4.2238	ppb	2.87229	68.00%
B 249.677†	127065.5	1390.2	µg/L	6.29	1390.2	ppb	6.29	0.45%
Ba 233.527†	155789.2	2189.5	µg/L	4.30	2189.5	ppb	4.30	0.20%
Be 313.107†	-611.0	-0.2648	µg/L	0.04084	-0.2648	ppb	0.04084	15.42%
Ca 317.933Radial†	411347.8	280060	µg/L	3098.0	280060	ppb	3098.0	1.11%
Cd 226.502†	274.9	-0.4200	µg/L	0.22773	-0.4200	ppb	0.22773	54.22%
Co 228.616†	164.7	5.7061	µg/L	0.28265	5.7061	ppb	0.28265	4.95%
Cr 267.716†	95.6	1.7968	µg/L	0.28643	1.7968	ppb	0.28643	15.94%
Cu 324.752†	-1643.2	-5.3909	µg/L	0.46711	-5.3909	ppb	0.46711	8.66%
Fe 238.204 Radial†	10577.9	36094	µg/L	88.9	36094	ppb	88.9	0.25%
K 766.490 Radial†	20098.0	24750	µg/L	39.3	24750	ppb	39.3	0.16%
Mg 279.077 IEC†	12883.2	91213	µg/L	336.7	91213	ppb	336.7	0.37%
Mn 257.610†	211771.7	614.68	µg/L	1.271	614.68	ppb	1.271	0.21%
Mo 202.031†	-88.7	-6.1870	µg/L	0.93934	-6.1870	ppb	0.93934	15.18%
Na 589.592 Radial†	457102.7	357450	µg/L	3634.4	357450	ppb	3634.4	1.02%

Ni 231.604†	553.2	16.311	µg/L	0.1529	16.311	ppb	0.1529	0.94%
P 214.914†	747.2	744.69	µg/L	12.236	744.69	ppb	12.236	1.64%
Pb 220.353†	16.0	2.4276	µg/L	2.00787	2.4276	ppb	2.00787	82.71%
S 181.975 Axial†	702.1	2262.2	µg/L	26.49	2262.2	ppb	26.49	1.17%
Sb 206.836†	2.7	2.6258	µg/L	1.62569	2.6258	ppb	1.62569	61.91%
Se 196.026†	-2.5	9.13	µg/L	1.186	9.13	ppb	1.186	12.99%
SiO2†	208690.3	38408	µg/L	113.0	38408	ppb	113.0	0.29%
Si 251.611†	611098.0	17992	µg/L	61.5	17992	ppb	61.5	0.34%
Sn 189.927†	-81.3	-7.7140	µg/L	2.76528	-7.7140	ppb	2.76528	35.85%
Sr 421.552†	76684.2	873.03	µg/L	7.855	873.03	ppb	7.855	0.90%
Ti 334.940†	-7979.5	-0.6284	µg/L	0.32564	-0.6284	ppb	0.32564	51.82%
Tl 190.801†	8.4	5.6815	µg/L	4.47871	5.6815	ppb	4.47871	78.83%
U 367.007†	820.8	-10.966	µg/L	15.8243	-10.966	ppb	15.8243	144.30%
V 292.402†	-585.0	1.4116	µg/L	0.16136	1.4116	ppb	0.16136	11.43%
Zn 213.857†	758.6	4.2585	µg/L	0.14927	4.2585	ppb	0.14927	3.51%

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Sequence No.: 7 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 18:24:38**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21813.4	21813.4	99.1	%			18:25:10
1	Al 396.153Radial†	3107.6	3228.5	5174.6	µg/L	5174.6	ppb	18:25:30
1	Ca 317.933Radial†	7437.1	7425.9	5055.0	µg/L	5055.0	ppb	18:25:30
1	Fe 238.204 Radial†	1536.6	1523.2	5181.8	µg/L	5181.8	ppb	18:25:30
1	K 766.490 Radial†	4658.8	4051.0	5023.3	µg/L	5023.3	ppb	18:25:10
1	Mg 279.077 IEC†	734.9	737.7	5223.2	µg/L	5223.2	ppb	18:25:30
1	Na 589.592 Radial†	13059.7	13217.5	10336	µg/L	10336	ppb	18:25:10
1	Sr 421.552†	42745.4	43120.6	492.10	µg/L	492.10	ppb	18:25:10
1	Sc 361.383	1255216.7	1255216.7	99.631	%			18:26:32
1	Y 371.029	727157.6	727157.6	97.587	%			18:26:32
1	Ag 328.068†	75215.9	74824.9	501.42	µg/L	501.42	ppb	18:26:34
1	As 188.979†	233.6	237.0	474.39	µg/L	474.39	ppb	18:26:54
1	B 249.677†	40885.4	40777.4	473.25	µg/L	473.25	ppb	18:26:34
1	Ba 233.527†	35039.7	35252.0	496.86	µg/L	496.86	ppb	18:26:34
1	Be 313.107†	1126282.3	1137324.1	492.94	µg/L	492.94	ppb	18:26:32
1	Cd 226.502†	31432.2	31658.2	493.88	µg/L	493.88	ppb	18:26:34
1	Co 228.616†	16817.9	16978.6	499.44	µg/L	499.44	ppb	18:26:34
1	Cr 267.716†	27014.6	26995.0	494.23	µg/L	494.23	ppb	18:26:34
1	Cu 324.752†	77867.9	74294.5	498.99	µg/L	498.99	ppb	18:26:34
1	Mn 257.610†	170087.1	170512.0	496.93	µg/L	496.93	ppb	18:26:34
1	Mo 202.031†	4290.7	4315.5	487.75	µg/L	487.75	ppb	18:26:54
1	Ni 231.604†	16577.0	16681.2	497.56	µg/L	497.56	ppb	18:26:34
1	P 214.914†	2322.7	2391.4	2521.5	µg/L	2521.5	ppb	18:26:54
1	Pb 220.353†	2365.7	2272.0	488.35	µg/L	488.35	ppb	18:26:54
1	S 181.975 Axial†	320.5	298.8	973.58	µg/L	973.58	ppb	18:26:54
1	Sb 206.836†	793.0	790.7	499.75	µg/L	499.75	ppb	18:26:54
1	Se 196.026†	362.1	352.3	481	µg/L	481	ppb	18:26:54
1	SiO2†	30743.2	29035.9	5353.6	µg/L	5353.6	ppb	18:26:34
1	Si 251.611†	85371.1	85274.2	2504.1	µg/L	2504.1	ppb	18:26:34
1	Sn 189.927†	1236.9	1243.3	506.23	µg/L	506.23	ppb	18:26:54
1	Ti 334.940†	267863.6	267271.2	497.77	µg/L	497.77	ppb	18:26:34
1	Tl 190.801†	360.9	378.5	453.91	µg/L	453.91	ppb	18:26:54
1	U 367.007†	1999.9	1692.3	434.38	µg/L	434.38	ppb	18:26:34
1	V 292.402†	70488.9	70387.8	504.03	µg/L	504.03	ppb	18:26:34
1	Zn 213.857†	39192.6	38794.9	491.20	µg/L	491.20	ppb	18:26:34
2	Sc RADIAL	22175.5	22175.5	101	%			18:25:32
2	Al 396.153Radial†	3071.1	3141.0	5034.1	µg/L	5034.1	ppb	18:25:52
2	Ca 317.933Radial†	7341.4	7208.4	4906.9	µg/L	4906.9	ppb	18:25:52
2	Fe 238.204 Radial†	1512.2	1473.6	5012.8	µg/L	5012.8	ppb	18:25:52
2	K 766.490 Radial†	4639.1	3954.7	4904.2	µg/L	4904.2	ppb	18:25:32
2	Mg 279.077 IEC†	738.8	729.4	5164.7	µg/L	5164.7	ppb	18:25:52
2	Na 589.592 Radial†	13158.0	13099.9	10244	µg/L	10244	ppb	18:25:32
2	Sr 421.552†	43089.4	42757.6	487.96	µg/L	487.96	ppb	18:25:32
2	Sc 361.383	1258149.6	1258149.6	99.864	%			18:26:57
2	Y 371.029	728934.5	728934.5	97.826	%			18:26:57
2	Ag 328.068†	75746.1	75179.8	503.81	µg/L	503.81	ppb	18:26:59
2	As 188.979†	232.4	235.2	470.87	µg/L	470.87	ppb	18:27:19
2	B 249.677†	41391.0	41188.0	478.91	µg/L	478.91	ppb	18:26:59
2	Ba 233.527†	35378.7	35509.5	500.49	µg/L	500.49	ppb	18:26:59
2	Be 313.107†	1134739.5	1143157.7	495.47	µg/L	495.47	ppb	18:26:57
2	Cd 226.502†	31778.9	31931.8	498.18	µg/L	498.18	ppb	18:26:59
2	Co 228.616†	16909.8	17031.3	501.00	µg/L	501.00	ppb	18:26:59
2	Cr 267.716†	27388.1	27305.8	499.92	µg/L	499.92	ppb	18:26:59
2	Cu 324.752†	78448.0	74693.3	501.64	µg/L	501.64	ppb	18:26:59
2	Mn 257.610†	171706.6	171735.7	500.49	µg/L	500.49	ppb	18:26:59
2	Mo 202.031†	4377.4	4392.2	496.41	µg/L	496.41	ppb	18:27:19
2	Ni 231.604†	16884.3	16950.2	505.58	µg/L	505.58	ppb	18:26:59
2	P 214.914†	2360.6	2423.9	2556.1	µg/L	2556.1	ppb	18:27:19
2	Pb 220.353†	2406.9	2307.8	496.03	µg/L	496.03	ppb	18:27:19

2	S 181.975 Axial†	327.2	304.7	992.96 µg/L	992.96 ppb	18:27:19
2	Sb 206.836†	800.5	796.3	503.31 µg/L	503.31 ppb	18:27:19
2	Se 196.026†	371.0	360.4	492 µg/L	492 ppb	18:27:19
2	SiO2†	31062.0	29283.2	5399.3 µg/L	5399.3 ppb	18:26:59
2	Si 251.611†	86148.2	85852.7	2521.0 µg/L	2521.0 ppb	18:26:59
2	Sn 189.927†	1256.1	1259.6	512.86 µg/L	512.86 ppb	18:27:19
2	Ti 334.940†	270054.3	268838.2	500.68 µg/L	500.68 ppb	18:26:59
2	Tl 190.801†	371.9	388.6	466.20 µg/L	466.20 ppb	18:27:19
2	U 367.007†	2028.6	1716.4	441.87 µg/L	441.87 ppb	18:26:59
2	V 292.402†	71150.1	70884.9	507.63 µg/L	507.63 ppb	18:26:59
2	Zn 213.857†	39480.4	38991.4	493.67 µg/L	493.67 ppb	18:26:59
3	Sc RADIAL	21854.9	21854.9	99.2 %		18:25:54
3	Al 396.153Radial†	3071.7	3186.3	5106.9 µg/L	5106.9 ppb	18:26:15
3	Ca 317.933Radial†	7369.7	7343.8	4999.1 µg/L	4999.1 ppb	18:26:15
3	Fe 238.204 Radial†	1527.0	1510.6	5138.9 µg/L	5138.9 ppb	18:26:15
3	K 766.490 Radial†	4718.7	4102.5	5087.1 µg/L	5087.1 ppb	18:25:54
3	Mg 279.077 IEC†	743.1	744.5	5271.3 µg/L	5271.3 ppb	18:26:15
3	Na 589.592 Radial†	12990.1	13122.4	10261 µg/L	10261 ppb	18:25:54
3	Sr 421.552†	43089.6	43385.6	495.13 µg/L	495.13 ppb	18:25:54
3	Sc 361.383	1273873.9	1273873.9	101.11 %		18:27:21
3	Y 371.029	737841.0	737841.0	99.021 %		18:27:21
3	Ag 328.068†	76275.9	74767.5	501.03 µg/L	501.03 ppb	18:27:23
3	As 188.979†	232.6	232.6	465.68 µg/L	465.68 ppb	18:27:43
3	B 249.677†	41657.1	40939.6	475.34 µg/L	475.34 ppb	18:27:23
3	Ba 233.527†	35451.7	35144.5	495.35 µg/L	495.35 ppb	18:27:23
3	Be 313.107†	1149901.8	1144127.2	495.89 µg/L	495.89 ppb	18:27:21
3	Cd 226.502†	31893.4	31652.3	493.80 µg/L	493.80 ppb	18:27:23
3	Co 228.616†	17003.9	16915.4	497.58 µg/L	497.58 ppb	18:27:23
3	Cr 267.716†	27416.1	26995.0	494.23 µg/L	494.23 ppb	18:27:23
3	Cu 324.752†	78562.8	73837.1	495.92 µg/L	495.92 ppb	18:27:23
3	Mn 257.610†	172387.8	170287.1	496.27 µg/L	496.27 ppb	18:27:23
3	Mo 202.031†	4348.2	4309.2	487.04 µg/L	487.04 ppb	18:27:43
3	Ni 231.604†	16881.4	16738.6	499.27 µg/L	499.27 ppb	18:27:23
3	P 214.914†	2374.5	2408.4	2539.7 µg/L	2539.7 ppb	18:27:43
3	Pb 220.353†	2388.9	2260.2	485.80 µg/L	485.80 ppb	18:27:43
3	S 181.975 Axial†	330.8	304.2	991.23 µg/L	991.23 ppb	18:27:43
3	Sb 206.836†	810.6	796.4	503.37 µg/L	503.37 ppb	18:27:43
3	Se 196.026†	372.9	357.7	489 µg/L	489 ppb	18:27:43
3	SiO2†	31054.4	28891.7	5327.1 µg/L	5327.1 ppb	18:27:23
3	Si 251.611†	86439.4	85075.8	2498.2 µg/L	2498.2 ppb	18:27:23
3	Sn 189.927†	1264.6	1252.5	509.97 µg/L	509.97 ppb	18:27:43
3	Ti 334.940†	271226.3	266659.3	496.63 µg/L	496.63 ppb	18:27:23
3	Tl 190.801†	371.8	384.0	460.60 µg/L	460.60 ppb	18:27:43
3	U 367.007†	2024.6	1687.3	433.25 µg/L	433.25 ppb	18:27:23
3	V 292.402†	71340.1	70193.4	502.65 µg/L	502.65 ppb	18:27:23
3	Zn 213.857†	39753.8	38773.8	490.92 µg/L	490.92 ppb	18:27:23

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1262413.4	100.20	%	0.796				0.79%
Sc RADIAL	21947.9	99.7	%	0.90				0.90%
Y 371.029	731311.0	98.145	%	0.7682				0.78%
Ag 328.068†	74924.1	502.09	µg/L	1.502	502.09	ppb	1.502	0.30%
QC value within limits for Ag 328.068 Recovery = 100.42%								
Al 396.153Radial†	3185.3	5105.2	µg/L	70.28	5105.2	ppb	70.28	1.38%
QC value within limits for Al 396.153Radial Recovery = 102.10%								
As 188.979†	235.0	470.31	µg/L	4.382	470.31	ppb	4.382	0.93%
QC value within limits for As 188.979 Recovery = 94.06%								
B 249.677†	40968.4	475.83	µg/L	2.859	475.83	ppb	2.859	0.60%
QC value within limits for B 249.677 Recovery = 95.17%								
Ba 233.527†	35302.0	497.57	µg/L	2.645	497.57	ppb	2.645	0.53%
QC value within limits for Ba 233.527 Recovery = 99.51%								
Be 313.107†	1141536.3	494.77	µg/L	1.595	494.77	ppb	1.595	0.32%
QC value within limits for Be 313.107 Recovery = 98.95%								
Ca 317.933Radial†	7326.0	4987.0	µg/L	74.80	4987.0	ppb	74.80	1.50%
QC value within limits for Ca 317.933Radial Recovery = 99.74%								
Cd 226.502†	31747.4	495.29	µg/L	2.507	495.29	ppb	2.507	0.51%
QC value within limits for Cd 226.502 Recovery = 99.06%								
Co 228.616†	16975.1	499.34	µg/L	1.712	499.34	ppb	1.712	0.34%

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   QC value within limits for Co 228.616  Recovery = 99.87%
Cr 267.716†            27098.6      496.13 µg/L         3.282      496.13 ppb          3.282   0.66%
   QC value within limits for Cr 267.716  Recovery = 99.23%
Cu 324.752†            74275.0      498.85 µg/L         2.863      498.85 ppb          2.863   0.57%
   QC value within limits for Cu 324.752  Recovery = 99.77%
Fe 238.204 Radial†      1502.5      5111.2 µg/L         87.88      5111.2 ppb          87.88   1.72%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.22%
K 766.490 Radial†       4036.1      5004.9 µg/L         92.85      5004.9 ppb          92.85   1.86%
   QC value within limits for K 766.490 Radial  Recovery = 100.10%
Mg 279.077 IEC†          737.2      5219.7 µg/L         53.39      5219.7 ppb          53.39   1.02%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.39%
Mn 257.610†           170844.9      497.89 µg/L         2.272      497.89 ppb          2.272   0.46%
   QC value within limits for Mn 257.610  Recovery = 99.58%
Mo 202.031†             4339.0      490.40 µg/L         5.217      490.40 ppb          5.217   1.06%
   QC value within limits for Mo 202.031  Recovery = 98.08%
Na 589.592 Radial†     13146.6       10280 µg/L          48.8       10280 ppb           48.8   0.47%
   QC value within limits for Na 589.592 Radial  Recovery = 102.80%
Ni 231.604†            16790.0      500.80 µg/L         4.227      500.80 ppb          4.227   0.84%
   QC value within limits for Ni 231.604  Recovery = 100.16%
P 214.914†              2407.9      2539.1 µg/L         17.29      2539.1 ppb          17.29   0.68%
   QC value within limits for P 214.914  Recovery = 101.56%
Pb 220.353†             2280.0      490.06 µg/L         5.323      490.06 ppb          5.323   1.09%
   QC value within limits for Pb 220.353  Recovery = 98.01%
S 181.975 Axial†         302.6      985.92 µg/L        10.724      985.92 ppb         10.724   1.09%
   QC value within limits for S 181.975 Axial  Recovery = 98.59%
Sb 206.836†              794.4      502.14 µg/L         2.076      502.14 ppb          2.076   0.41%
   QC value within limits for Sb 206.836  Recovery = 100.43%
Se 196.026†              356.8         487 µg/L           5.6         487 ppb            5.6   1.14%
   QC value within limits for Se 196.026  Recovery = 97.46%
SiO2†                  29070.2      5360.0 µg/L         36.50      5360.0 ppb          36.50   0.68%
   QC value within limits for SiO2  Recovery = 100.23%
Si 251.611†            85400.9      2507.8 µg/L         11.80      2507.8 ppb          11.80   0.47%
   QC value within limits for Si 251.611  Recovery = 100.31%
Sn 189.927†             1251.8      509.69 µg/L         3.323      509.69 ppb          3.323   0.65%
   QC value within limits for Sn 189.927  Recovery = 101.94%
Sr 421.552†            43088.0      491.73 µg/L         3.598      491.73 ppb          3.598   0.73%
   QC value within limits for Sr 421.552  Recovery = 98.35%
Ti 334.940†           267589.6      498.36 µg/L         2.088      498.36 ppb          2.088   0.42%
   QC value within limits for Ti 334.940  Recovery = 99.67%
Tl 190.801†              383.7      460.24 µg/L         6.151      460.24 ppb          6.151   1.34%
   QC value within limits for Tl 190.801  Recovery = 92.05%
U 367.007†              1698.6      436.50 µg/L         4.683      436.50 ppb          4.683   1.07%
   QC value less than the lower limit for U 367.007  Recovery = 87.30%
V 292.402†             70488.7      504.77 µg/L         2.573      504.77 ppb          2.573   0.51%
   QC value within limits for V 292.402  Recovery = 100.95%
Zn 213.857†            38853.3      491.93 µg/L         1.515      491.93 ppb          1.515   0.31%
   QC value within limits for Zn 213.857  Recovery = 98.39%
QC Failed.  Continue with analysis.
```

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 18:27:52**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22202.6	22202.6	101	%			18:28:39
1	Al 396.153Radial†	-94.9	-3.0	-4.7775	µg/L	-4.7775	ppb	18:28:39
1	Ca 317.933Radial†	93.2	10.2	6.9374	µg/L	6.9374	ppb	18:28:59
1	Fe 238.204 Radial†	28.9	0.5	1.8623	µg/L	1.8623	ppb	18:28:59
1	K 766.490 Radial†	716.1	58.0	71.743	µg/L	71.743	ppb	18:28:39
1	Mg 279.077 IEC†	1.9	-2.4	-16.736	µg/L	-16.736	ppb	18:28:59
1	Na 589.592 Radial†	55.7	88.2	68.936	µg/L	68.936	ppb	18:28:39
1	Sr 421.552†	32.7	-1.2	-0.0138	µg/L	-0.0138	ppb	18:28:39
1	Sc 361.383	1240846.8	1240846.8	98.490	%			18:30:37
1	Y 371.029	734006.3	734006.3	98.506	%			18:30:37
1	Ag 328.068†	505.2	-156.7	-1.0546	µg/L	-1.0546	ppb	18:30:39
1	As 188.979†	1.3	3.9	7.6152	µg/L	7.6152	ppb	18:30:59
1	B 249.677†	452.2	199.7	2.3777	µg/L	2.3777	ppb	18:30:59
1	Ba 233.527†	-82.4	-1.1	-0.0155	µg/L	-0.0155	ppb	18:30:59
1	Be 313.107†	-6902.7	-139.4	-0.0604	µg/L	-0.0604	ppb	18:30:39
1	Cd 226.502†	-104.0	3.9	0.0607	µg/L	0.0607	ppb	18:30:59
1	Co 228.616†	-97.4	-0.5	-0.0140	µg/L	-0.0140	ppb	18:30:59
1	Cr 267.716†	131.8	14.1	0.2549	µg/L	0.2549	ppb	18:30:59
1	Cu 324.752†	3925.1	123.4	0.8305	µg/L	0.8305	ppb	18:30:39
1	Mn 257.610†	208.5	6.5	0.0196	µg/L	0.0196	ppb	18:30:59
1	Mo 202.031†	-10.9	-2.3	-0.2568	µg/L	-0.2568	ppb	18:30:59
1	Ni 231.604†	-46.7	-4.5	-0.1356	µg/L	-0.1356	ppb	18:30:59
1	P 214.914†	-65.1	-6.1	-6.4431	µg/L	-6.4431	ppb	18:30:59
1	Pb 220.353†	98.5	-2.4	-0.5212	µg/L	-0.5212	ppb	18:30:59
1	S 181.975 Axial†	32.8	10.4	33.983	µg/L	33.983	ppb	18:30:59
1	Sb 206.836†	0.8	-4.5	-2.8347	µg/L	-2.8347	ppb	18:30:59
1	Se 196.026†	20.3	9.5	13.0	µg/L	13.0	ppb	18:30:59
1	SiO2†	1898.0	105.9	19.489	µg/L	19.489	ppb	18:30:59
1	Si 251.611†	602.0	198.1	5.8359	µg/L	5.8359	ppb	18:30:59
1	Sn 189.927†	5.9	7.8	3.1912	µg/L	3.1912	ppb	18:30:59
1	Ti 334.940†	1468.0	-94.2	-0.1787	µg/L	-0.1787	ppb	18:30:39
1	Tl 190.801†	-16.5	-0.5	-0.5860	µg/L	-0.5860	ppb	18:30:59
1	U 367.007†	335.4	25.5	6.9945	µg/L	6.9945	ppb	18:30:39
1	V 292.402†	343.9	-13.1	-0.0907	µg/L	-0.0907	ppb	18:30:39
1	Zn 213.857†	531.3	-3.4	-0.0438	µg/L	-0.0438	ppb	18:30:59
2	Sc RADIAL	21087.8	21087.8	95.8	%			18:29:19
2	Al 396.153Radial†	-88.5	-1.3	-2.0145	µg/L	-2.0145	ppb	18:29:19
2	Ca 317.933Radial†	95.6	17.6	11.967	µg/L	11.967	ppb	18:29:39
2	Fe 238.204 Radial†	27.2	0.3	0.9907	µg/L	0.9907	ppb	18:29:39
2	K 766.490 Radial†	675.9	53.5	66.207	µg/L	66.207	ppb	18:29:19
2	Mg 279.077 IEC†	3.5	-0.7	-4.7658	µg/L	-4.7658	ppb	18:29:39
2	Na 589.592 Radial†	44.2	79.1	61.856	µg/L	61.856	ppb	18:29:19
2	Sr 421.552†	49.8	18.3	0.2090	µg/L	0.2090	ppb	18:29:19
2	Sc 361.383	1243604.2	1243604.2	98.709	%			18:31:01
2	Y 371.029	734713.3	734713.3	98.601	%			18:31:01
2	Ag 328.068†	532.4	-130.4	-0.8765	µg/L	-0.8765	ppb	18:31:03
2	As 188.979†	-4.1	-1.7	-3.2773	µg/L	-3.2773	ppb	18:31:23
2	B 249.677†	401.1	146.9	1.7448	µg/L	1.7448	ppb	18:31:23
2	Ba 233.527†	-97.3	-16.0	-0.2237	µg/L	-0.2237	ppb	18:31:23
2	Be 313.107†	-6697.6	84.0	0.0364	µg/L	0.0364	ppb	18:31:03
2	Cd 226.502†	-107.1	1.1	0.0167	µg/L	0.0167	ppb	18:31:23
2	Co 228.616†	-97.8	-0.7	-0.0206	µg/L	-0.0206	ppb	18:31:23
2	Cr 267.716†	137.8	19.9	0.3600	µg/L	0.3600	ppb	18:31:23
2	Cu 324.752†	3787.1	-25.2	-0.1653	µg/L	-0.1653	ppb	18:31:03
2	Mn 257.610†	224.5	22.2	0.0649	µg/L	0.0649	ppb	18:31:23
2	Mo 202.031†	-18.2	-9.6	-1.0833	µg/L	-1.0833	ppb	18:31:23
2	Ni 231.604†	-22.0	20.5	0.6127	µg/L	0.6127	ppb	18:31:23
2	P 214.914†	-63.4	-4.2	-4.3991	µg/L	-4.3991	ppb	18:31:23
2	Pb 220.353†	100.3	-0.8	-0.1779	µg/L	-0.1779	ppb	18:31:23

2	S 181.975 Axial†	29.5	7.0	22.793	µg/L	22.793	ppb	18:31:23
2	Sb 206.836†	8.4	3.2	1.9919	µg/L	1.9919	ppb	18:31:23
2	Se 196.026†	17.2	6.4	8.66	µg/L	8.66	ppb	18:31:23
2	SiO2†	1912.7	116.5	21.445	µg/L	21.445	ppb	18:31:23
2	Si 251.611†	600.9	195.7	5.7739	µg/L	5.7739	ppb	18:31:23
2	Sn 189.927†	2.6	4.4	1.8101	µg/L	1.8101	ppb	18:31:23
2	Ti 334.940†	1379.1	-187.6	-0.3522	µg/L	-0.3522	ppb	18:31:03
2	Tl 190.801†	-12.0	4.1	4.9871	µg/L	4.9871	ppb	18:31:23
2	U 367.007†	333.4	22.7	6.2275	µg/L	6.2275	ppb	18:31:03
2	V 292.402†	431.0	74.3	0.5157	µg/L	0.5157	ppb	18:31:03
2	Zn 213.857†	537.0	1.1	0.0095	µg/L	0.0095	ppb	18:31:23
3	Sc RADIAL	21769.2	21769.2	98.9	%			18:29:59
3	Al 396.153Radial†	-104.9	-14.9	-23.895	µg/L	-23.895	ppb	18:29:59
3	Ca 317.933Radial†	93.8	12.6	8.6064	µg/L	8.6064	ppb	18:30:19
3	Fe 238.204 Radial†	30.8	3.0	10.270	µg/L	10.270	ppb	18:30:19
3	K 766.490 Radial†	693.9	49.7	61.495	µg/L	61.495	ppb	18:29:59
3	Mg 279.077 IEC†	4.7	0.4	3.1084	µg/L	3.1084	ppb	18:30:19
3	Na 589.592 Radial†	46.7	80.2	62.686	µg/L	62.686	ppb	18:29:59
3	Sr 421.552†	37.3	4.1	0.0462	µg/L	0.0462	ppb	18:29:59
3	Sc 361.383	1250016.9	1250016.9	99.218	%			18:31:25
3	Y 371.029	738924.4	738924.4	99.166	%			18:31:25
3	Ag 328.068†	657.7	-6.8	-0.0434	µg/L	-0.0434	ppb	18:31:27
3	As 188.979†	-2.8	-0.3	-0.6439	µg/L	-0.6439	ppb	18:31:47
3	B 249.677†	434.3	178.3	2.0922	µg/L	2.0922	ppb	18:31:47
3	Ba 233.527†	-84.0	-2.1	-0.0311	µg/L	-0.0311	ppb	18:31:47
3	Be 313.107†	-6829.9	-14.6	-0.0063	µg/L	-0.0063	ppb	18:31:27
3	Cd 226.502†	-88.5	20.3	0.3152	µg/L	0.3152	ppb	18:31:47
3	Co 228.616†	-93.2	4.5	0.1329	µg/L	0.1329	ppb	18:31:47
3	Cr 267.716†	121.5	2.8	0.0544	µg/L	0.0544	ppb	18:31:47
3	Cu 324.752†	3901.5	70.4	0.4709	µg/L	0.4709	ppb	18:31:27
3	Mn 257.610†	197.1	-6.6	-0.0192	µg/L	-0.0192	ppb	18:31:47
3	Mo 202.031†	-12.3	-3.6	-0.4058	µg/L	-0.4058	ppb	18:31:47
3	Ni 231.604†	-47.8	-5.4	-0.1606	µg/L	-0.1606	ppb	18:31:47
3	P 214.914†	-67.1	-7.6	-8.0354	µg/L	-8.0354	ppb	18:31:47
3	Pb 220.353†	123.8	22.3	4.7862	µg/L	4.7862	ppb	18:31:47
3	S 181.975 Axial†	29.2	6.5	21.437	µg/L	21.437	ppb	18:31:47
3	Sb 206.836†	4.5	-0.8	-0.4799	µg/L	-0.4799	ppb	18:31:47
3	Se 196.026†	11.6	0.6	0.848	µg/L	0.848	ppb	18:31:47
3	SiO2†	1887.5	81.1	14.936	µg/L	14.936	ppb	18:31:47
3	Si 251.611†	556.1	147.4	4.3443	µg/L	4.3443	ppb	18:31:47
3	Sn 189.927†	-3.6	-1.8	-0.7197	µg/L	-0.7197	ppb	18:31:47
3	Ti 334.940†	1411.2	-162.4	-0.2996	µg/L	-0.2996	ppb	18:31:27
3	Tl 190.801†	-13.0	3.1	3.7733	µg/L	3.7733	ppb	18:31:47
3	U 367.007†	294.8	-17.9	-4.9682	µg/L	-4.9682	ppb	18:31:27
3	V 292.402†	288.4	-71.6	-0.5109	µg/L	-0.5109	ppb	18:31:27
3	Zn 213.857†	553.4	14.8	0.1882	µg/L	0.1882	ppb	18:31:47

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1244822.6	98.806	%	0.3734				0.38%
Sc RADIAL	21686.6	98.5	%	2.55				2.59%
Y 371.029	735881.3	98.758	%	0.3568				0.36%
Ag 328.068†	-98.0	-0.6582	µg/L	0.53981	-0.6582	ppb	0.53981	82.02%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-6.4	-10.229	µg/L	11.9157	-10.229	ppb	11.9157	116.49%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.6	1.2313	µg/L	5.68320	1.2313	ppb	5.68320	461.55%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	174.9	2.0716	µg/L	0.31697	2.0716	ppb	0.31697	15.30%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-6.4	-0.0901	µg/L	0.11599	-0.0901	ppb	0.11599	128.74%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-23.3	-0.0101	µg/L	0.04851	-0.0101	ppb	0.04851	479.58%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	13.5	9.1702	µg/L	2.56165	9.1702	ppb	2.56165	27.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	8.4	0.1309	µg/L	0.16115	0.1309	ppb	0.16115	123.12%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	1.1	0.0328	µg/L	0.08678	0.0328	ppb	0.08678	264.74%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               12.3      0.2231 µg/L       0.15526      0.2231 ppb        0.15526  69.59%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               56.2      0.3787 µg/L       0.50428      0.3787 ppb        0.50428 133.17%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.3      4.3743 µg/L       5.12427      4.3743 ppb        5.12427 117.15%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         53.7      66.482 µg/L        5.1297      66.482 ppb         5.1297   7.72%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.9     -6.1313 µg/L       9.99265     -6.1313 ppb        9.99265 162.98%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                7.3      0.0217 µg/L       0.04208      0.0217 ppb        0.04208 193.56%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -5.2     -0.5820 µg/L       0.44048     -0.5820 ppb        0.44048  75.69%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        82.5      64.493 µg/L        3.8700      64.493 ppb         3.8700   6.00%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                3.5      0.1055 µg/L       0.43946      0.1055 ppb        0.43946 416.63%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                -5.9     -6.2925 µg/L       1.82278     -6.2925 ppb        1.82278  28.97%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                6.4      1.3623 µg/L       2.97010      1.3623 ppb        2.97010 218.02%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           8.0      26.071 µg/L        6.8856      26.071 ppb         6.8856  26.41%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -0.7     -0.4409 µg/L       2.41356     -0.4409 ppb        2.41356 547.45%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                5.5        7.49 µg/L         6.138        7.49 ppb          6.138  81.96%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    101.2      18.624 µg/L        3.3399      18.624 ppb         3.3399  17.93%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              180.4      5.3180 µg/L       0.84387      5.3180 ppb        0.84387  15.87%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                3.5      1.4272 µg/L       1.98338      1.4272 ppb        1.98338 138.97%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                7.1      0.0805 µg/L       0.11526      0.0805 ppb        0.11526 143.23%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -148.1     -0.2769 µg/L       0.08896     -0.2769 ppb        0.08896  32.13%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                2.2      2.7248 µg/L       2.93077      2.7248 ppb        2.93077 107.56%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                10.1      2.7512 µg/L       6.69625      2.7512 ppb        6.69625 243.39%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -3.5     -0.0286 µg/L       0.51606     -0.0286 ppb        0.51606 >999.9%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                4.1      0.0513 µg/L       0.12150      0.0513 ppb        0.12150 236.81%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 9
Sample ID: 1202969094|1339675|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 307
Date Collected: 11/6/2013 18:31:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202969094|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21893.1	21893.1	99.4	%			18:32:46
1	Al 396.153Radial†	-85.8	4.9	7.8362	µg/L	7.8362	ppb	18:32:46
1	Ca 317.933Radial†	98.2	16.5	11.217	µg/L	11.217	ppb	18:33:06
1	Fe 238.204 Radial†	31.1	3.2	10.760	µg/L	10.760	ppb	18:33:06
1	K 766.490 Radial†	722.9	74.8	92.656	µg/L	92.656	ppb	18:32:46
1	Mg 279.077 IEC†	7.4	3.1	22.248	µg/L	22.248	ppb	18:33:06
1	Na 589.592 Radial†	24.5	57.6	45.023	µg/L	45.023	ppb	18:32:46
1	Sr 421.552†	50.8	17.4	0.1988	µg/L	0.1988	ppb	18:32:46
1	Sc 361.383	1237461.1	1237461.1	98.222	%			18:34:44
1	Y 371.029	726780.2	726780.2	97.536	%			18:34:44
1	Ag 328.068†	565.4	-94.1	-0.6356	µg/L	-0.6356	ppb	18:34:46
1	As 188.979†	-7.8	-5.4	-10.558	µg/L	-10.558	ppb	18:35:06
1	B 249.677†	378.4	125.8	1.4413	µg/L	1.4413	ppb	18:35:06
1	Ba 233.527†	-97.0	-16.2	-0.2293	µg/L	-0.2293	ppb	18:35:06
1	Be 313.107†	-7048.2	-306.7	-0.1329	µg/L	-0.1329	ppb	18:34:46
1	Cd 226.502†	-119.5	-12.2	-0.1917	µg/L	-0.1917	ppb	18:35:06
1	Co 228.616†	-105.1	-8.6	-0.2526	µg/L	-0.2526	ppb	18:35:06
1	Cr 267.716†	123.9	6.4	0.1142	µg/L	0.1142	ppb	18:35:06
1	Cu 324.752†	4016.3	227.2	1.5263	µg/L	1.5263	ppb	18:34:46
1	Mn 257.610†	216.5	15.1	0.0435	µg/L	0.0435	ppb	18:35:06
1	Mo 202.031†	-6.6	2.2	0.2458	µg/L	0.2458	ppb	18:35:06
1	Ni 231.604†	-51.7	-9.8	-0.2936	µg/L	-0.2936	ppb	18:35:06
1	P 214.914†	-65.7	-6.8	-7.2704	µg/L	-7.2704	ppb	18:35:06
1	Pb 220.353†	102.2	1.6	0.3383	µg/L	0.3383	ppb	18:35:06
1	S 181.975 Axial†	23.0	0.5	1.4536	µg/L	1.4536	ppb	18:35:06
1	Sb 206.836†	-1.0	-6.4	-4.0317	µg/L	-4.0317	ppb	18:35:06
1	Se 196.026†	13.3	2.5	3.37	µg/L	3.37	ppb	18:35:06
1	SiO2†	1921.4	135.0	24.845	µg/L	24.845	ppb	18:35:06
1	Si 251.611†	601.3	199.1	5.8570	µg/L	5.8570	ppb	18:35:06
1	Sn 189.927†	3.5	5.4	2.1865	µg/L	2.1865	ppb	18:35:06
1	Ti 334.940†	1527.7	-29.4	-0.0573	µg/L	-0.0573	ppb	18:34:46
1	Tl 190.801†	-19.6	-3.7	-4.4592	µg/L	-4.4592	ppb	18:35:06
1	U 367.007†	330.2	21.2	5.7498	µg/L	5.7498	ppb	18:34:46
1	V 292.402†	297.2	-59.7	-0.4129	µg/L	-0.4129	ppb	18:34:46
1	Zn 213.857†	598.3	66.2	0.8428	µg/L	0.8428	ppb	18:35:06
2	Sc RADIAL	21783.2	21783.2	98.9	%			18:33:26
2	Al 396.153Radial†	-74.5	15.8	25.334	µg/L	25.334	ppb	18:33:26
2	Ca 317.933Radial†	87.1	5.8	3.9506	µg/L	3.9506	ppb	18:33:46
2	Fe 238.204 Radial†	28.0	0.2	0.5965	µg/L	0.5965	ppb	18:33:46
2	K 766.490 Radial†	690.4	45.7	56.542	µg/L	56.542	ppb	18:33:26
2	Mg 279.077 IEC†	5.8	1.6	11.358	µg/L	11.358	ppb	18:33:46
2	Na 589.592 Radial†	34.7	67.9	53.129	µg/L	53.129	ppb	18:33:26
2	Sr 421.552†	45.3	12.2	0.1391	µg/L	0.1391	ppb	18:33:26
2	Sc 361.383	1225982.2	1225982.2	97.310	%			18:35:08
2	Y 371.029	720883.8	720883.8	96.745	%			18:35:08
2	Ag 328.068†	624.0	-28.5	-0.1960	µg/L	-0.1960	ppb	18:35:10
2	As 188.979†	-7.7	-5.4	-10.668	µg/L	-10.668	ppb	18:35:30
2	B 249.677†	398.1	149.6	1.7831	µg/L	1.7831	ppb	18:35:30
2	Ba 233.527†	-85.8	-5.6	-0.0804	µg/L	-0.0804	ppb	18:35:30
2	Be 313.107†	-6813.5	-132.7	-0.0575	µg/L	-0.0575	ppb	18:35:10
2	Cd 226.502†	-98.9	7.9	0.1231	µg/L	0.1231	ppb	18:35:30
2	Co 228.616†	-103.7	-8.2	-0.2410	µg/L	-0.2410	ppb	18:35:30
2	Cr 267.716†	126.5	10.2	0.1848	µg/L	0.1848	ppb	18:35:30
2	Cu 324.752†	3863.6	108.6	0.7293	µg/L	0.7293	ppb	18:35:10
2	Mn 257.610†	235.4	36.6	0.1063	µg/L	0.1063	ppb	18:35:30
2	Mo 202.031†	-2.2	6.5	0.7389	µg/L	0.7389	ppb	18:35:30
2	Ni 231.604†	-54.5	-13.2	-0.3925	µg/L	-0.3925	ppb	18:35:30
2	P 214.914†	-63.9	-5.6	-5.9462	µg/L	-5.9462	ppb	18:35:30
2	Pb 220.353†	92.6	-7.3	-1.5645	µg/L	-1.5645	ppb	18:35:30

2	S 181.975 Axial†	32.0	10.0	32.598	µg/L	32.598	ppb	18:35:30
2	Sb 206.836†	1.7	-3.6	-2.2898	µg/L	-2.2898	ppb	18:35:30
2	Se 196.026†	16.0	5.3	7.24	µg/L	7.24	ppb	18:35:30
2	SiO2†	1874.1	104.6	19.258	µg/L	19.258	ppb	18:35:30
2	Si 251.611†	583.3	186.3	5.4735	µg/L	5.4735	ppb	18:35:30
2	Sn 189.927†	6.9	8.9	3.6377	µg/L	3.6377	ppb	18:35:30
2	Ti 334.940†	1706.2	168.6	0.3121	µg/L	0.3121	ppb	18:35:10
2	Tl 190.801†	-15.1	0.7	0.8777	µg/L	0.8777	ppb	18:35:30
2	U 367.007†	321.0	14.8	4.0665	µg/L	4.0665	ppb	18:35:10
2	V 292.402†	243.9	-111.6	-0.7756	µg/L	-0.7756	ppb	18:35:10
2	Zn 213.857†	604.3	78.1	0.9982	µg/L	0.9982	ppb	18:35:30
3	Sc RADIAL	22009.4	22009.4	99.9	%			18:34:07
3	Al 396.153Radial†	-72.2	18.9	30.290	µg/L	30.290	ppb	18:34:07
3	Ca 317.933Radial†	94.7	12.5	8.5114	µg/L	8.5114	ppb	18:34:27
3	Fe 238.204 Radial†	29.1	1.0	3.4376	µg/L	3.4376	ppb	18:34:27
3	K 766.490 Radial†	674.7	22.8	28.202	µg/L	28.202	ppb	18:34:07
3	Mg 279.077 IEC†	-1.6	-5.9	-42.033	µg/L	-42.033	ppb	18:34:27
3	Na 589.592 Radial†	28.2	61.1	47.768	µg/L	47.768	ppb	18:34:07
3	Sr 421.552†	49.2	15.6	0.1783	µg/L	0.1783	ppb	18:34:07
3	Sc 361.383	1241029.3	1241029.3	98.505	%			18:35:32
3	Y 371.029	728709.7	728709.7	97.795	%			18:35:32
3	Ag 328.068†	717.3	58.5	0.4051	µg/L	0.4051	ppb	18:35:34
3	As 188.979†	-4.6	-2.1	-4.1214	µg/L	-4.1214	ppb	18:35:54
3	B 249.677†	407.9	154.7	1.8463	µg/L	1.8463	ppb	18:35:54
3	Ba 233.527†	-83.9	-2.6	-0.0352	µg/L	-0.0352	ppb	18:35:54
3	Be 313.107†	-6924.2	-160.2	-0.0694	µg/L	-0.0694	ppb	18:35:34
3	Cd 226.502†	-86.5	21.7	0.3377	µg/L	0.3377	ppb	18:35:54
3	Co 228.616†	-92.0	5.0	0.1466	µg/L	0.1466	ppb	18:35:54
3	Cr 267.716†	117.0	-0.9	-0.0059	µg/L	-0.0059	ppb	18:35:54
3	Cu 324.752†	3909.5	107.0	0.7104	µg/L	0.7104	ppb	18:35:34
3	Mn 257.610†	211.6	9.5	0.0294	µg/L	0.0294	ppb	18:35:54
3	Mo 202.031†	-20.4	-11.9	-1.3406	µg/L	-1.3406	ppb	18:35:54
3	Ni 231.604†	-50.6	-8.5	-0.2549	µg/L	-0.2549	ppb	18:35:54
3	P 214.914†	-66.1	-7.1	-7.4949	µg/L	-7.4949	ppb	18:35:54
3	Pb 220.353†	101.5	0.6	0.1459	µg/L	0.1459	ppb	18:35:54
3	S 181.975 Axial†	23.1	0.5	1.5844	µg/L	1.5844	ppb	18:35:54
3	Sb 206.836†	-0.3	-5.6	-3.5552	µg/L	-3.5552	ppb	18:35:54
3	Se 196.026†	11.9	1.0	1.31	µg/L	1.31	ppb	18:35:54
3	SiO2†	1847.4	54.2	9.9671	µg/L	9.9671	ppb	18:35:54
3	Si 251.611†	593.2	189.1	5.5842	µg/L	5.5842	ppb	18:35:54
3	Sn 189.927†	1.8	3.7	1.5067	µg/L	1.5067	ppb	18:35:54
3	Ti 334.940†	1527.2	-34.4	-0.0552	µg/L	-0.0552	ppb	18:35:34
3	Tl 190.801†	-16.5	-0.5	-0.6372	µg/L	-0.6372	ppb	18:35:54
3	U 367.007†	253.0	-58.2	-15.976	µg/L	-15.976	ppb	18:35:34
3	V 292.402†	395.2	38.9	0.2493	µg/L	0.2493	ppb	18:35:34
3	Zn 213.857†	606.9	73.2	0.9354	µg/L	0.9354	ppb	18:35:54

Mean Data: 1202969094|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1234824.2	98.012	%	0.6241				0.64%
Sc RADIAL	21895.2	99.4	%	0.51				0.52%
Y 371.029	725457.9	97.359	%	0.5472				0.56%
Ag 328.068†	-21.3	-0.1421	µg/L	0.52243	-0.1421	ppb	0.52243	367.57%
Al 396.153Radial†	13.2	21.153	µg/L	11.7961	21.153	ppb	11.7961	55.77%
As 188.979†	-4.3	-8.4490	µg/L	3.74824	-8.4490	ppb	3.74824	44.36%
B 249.677†	143.4	1.6902	µg/L	0.21784	1.6902	ppb	0.21784	12.89%
Ba 233.527†	-8.1	-0.1150	µg/L	0.10157	-0.1150	ppb	0.10157	88.33%
Be 313.107†	-199.9	-0.0866	µg/L	0.04053	-0.0866	ppb	0.04053	46.79%
Ca 317.933Radial†	11.6	7.8930	µg/L	3.67244	7.8930	ppb	3.67244	46.53%
Cd 226.502†	5.8	0.0897	µg/L	0.26629	0.0897	ppb	0.26629	296.90%
Co 228.616†	-3.9	-0.1157	µg/L	0.22716	-0.1157	ppb	0.22716	196.40%
Cr 267.716†	5.2	0.0977	µg/L	0.09644	0.0977	ppb	0.09644	98.73%
Cu 324.752†	147.6	0.9887	µg/L	0.46569	0.9887	ppb	0.46569	47.10%
Fe 238.204 Radial†	1.4	4.9312	µg/L	5.24363	4.9312	ppb	5.24363	106.33%
K 766.490 Radial†	47.8	59.134	µg/L	32.3051	59.134	ppb	32.3051	54.63%
Mg 279.077 IEC†	-0.4	-2.8090	µg/L	34.40249	-2.8090	ppb	34.40249	>999.9%
Mn 257.610†	20.4	0.0597	µg/L	0.04094	0.0597	ppb	0.04094	68.54%
Mo 202.031†	-1.0	-0.1186	µg/L	1.08661	-0.1186	ppb	1.08661	916.09%
Na 589.592 Radial†	62.2	48.640	µg/L	4.1232	48.640	ppb	4.1232	8.48%

Ni 231.604†	-10.5	-0.3137	µg/L	0.07097	-0.3137	ppb	0.07097	22.63%
P 214.914†	-6.5	-6.9038	µg/L	0.83689	-6.9038	ppb	0.83689	12.12%
Pb 220.353†	-1.7	-0.3601	µg/L	1.04746	-0.3601	ppb	1.04746	290.85%
S 181.975 Axial†	3.6	11.879	µg/L	17.9438	11.879	ppb	17.9438	151.06%
Sb 206.836†	-5.2	-3.2922	µg/L	0.90020	-3.2922	ppb	0.90020	27.34%
Se 196.026†	2.9	3.98	µg/L	3.014	3.98	ppb	3.014	75.83%
SiO2†	97.9	18.023	µg/L	7.5153	18.023	ppb	7.5153	41.70%
Si 251.611†	191.5	5.6382	µg/L	0.19738	5.6382	ppb	0.19738	3.50%
Sn 189.927†	6.0	2.4436	µg/L	1.08854	2.4436	ppb	1.08854	44.55%
Sr 421.552†	15.1	0.1721	µg/L	0.03036	0.1721	ppb	0.03036	17.64%
Ti 334.940†	34.9	0.0665	µg/L	0.21268	0.0665	ppb	0.21268	319.79%
Tl 190.801†	-1.2	-1.4063	µg/L	2.75026	-1.4063	ppb	2.75026	195.57%
U 367.007†	-7.4	-2.0532	µg/L	12.08672	-2.0532	ppb	12.08672	588.68%
V 292.402†	-44.2	-0.3131	µg/L	0.51970	-0.3131	ppb	0.51970	166.00%
Zn 213.857†	72.5	0.9255	µg/L	0.07815	0.9255	ppb	0.07815	8.44%

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Sequence No.: 10 **Autosampler Location: 308**
Sample ID: 1202969095|1339675|1 **Date Collected: 11/6/2013 18:36:03**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969095|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22413.2	22413.2	102	%			18:36:33
1	Al 396.153Radial†	3159.5	3195.5	5122.1	µg/L	5122.1	ppb	18:36:33
1	Ca 317.933Radial†	7623.7	7408.4	5043.0	µg/L	5043.0	ppb	18:36:53
1	Fe 238.204 Radial†	1570.5	1514.9	5153.4	µg/L	5153.4	ppb	18:36:53
1	K 766.490 Radial†	4840.4	4103.7	5090.6	µg/L	5090.6	ppb	18:36:33
1	Mg 279.077 IEC†	762.8	745.2	5276.5	µg/L	5276.5	ppb	18:36:53
1	Na 589.592 Radial†	6693.4	6609.4	5168.5	µg/L	5168.5	ppb	18:36:33
1	Sr 421.552†	45430.0	44603.4	509.03	µg/L	509.03	ppb	18:36:33
1	Sc 361.383	1273713.1	1273713.1	101.10	%			18:37:54
1	Y 371.029	731943.4	731943.4	98.229	%			18:37:54
1	Ag 328.068†	76814.1	75309.4	504.57	µg/L	504.57	ppb	18:37:56
1	As 188.979†	233.0	233.0	466.09	µg/L	466.09	ppb	18:38:16
1	B 249.677†	42185.0	41467.0	481.71	µg/L	481.71	ppb	18:37:56
1	Ba 233.527†	37015.8	36696.0	517.07	µg/L	517.07	ppb	18:37:56
1	Be 313.107†	1171658.7	1165791.2	505.28	µg/L	505.28	ppb	18:37:54
1	Cd 226.502†	32698.1	32452.2	506.27	µg/L	506.27	ppb	18:37:56
1	Co 228.616†	17418.6	17327.6	509.76	µg/L	509.76	ppb	18:37:56
1	Cr 267.716†	25779.1	25379.1	464.66	µg/L	464.66	ppb	18:37:56
1	Cu 324.752†	74687.2	70013.4	470.30	µg/L	470.30	ppb	18:37:56
1	Mn 257.610†	162192.0	160223.6	466.93	µg/L	466.93	ppb	18:37:56
1	Mo 202.031†	4028.1	3993.1	451.34	µg/L	451.34	ppb	18:38:16
1	Ni 231.604†	15839.6	15710.2	468.59	µg/L	468.59	ppb	18:37:56
1	P 214.914†	434.0	489.4	504.79	µg/L	504.79	ppb	18:38:16
1	Pb 220.353†	2535.2	2405.2	516.81	µg/L	516.81	ppb	18:38:16
1	S 181.975 Axial†	1385.7	1347.7	4406.9	µg/L	4406.9	ppb	18:38:16
1	Sb 206.836†	748.3	734.8	464.40	µg/L	464.40	ppb	18:38:16
1	Se 196.026†	329.4	314.7	430	µg/L	430	ppb	18:38:16
1	SiO2†	53562.8	51159.3	9424.8	µg/L	9424.8	ppb	18:37:56
1	Si 251.611†	151775.7	149712.7	4401.3	µg/L	4401.3	ppb	18:37:56
1	Sn 189.927†	1192.4	1181.3	481.02	µg/L	481.02	ppb	18:38:16
1	Ti 334.940†	252485.9	248156.5	462.19	µg/L	462.19	ppb	18:37:56
1	Tl 190.801†	351.7	364.1	436.39	µg/L	436.39	ppb	18:38:16
1	U 367.007†	1885.5	1550.0	395.49	µg/L	395.49	ppb	18:37:56
1	V 292.402†	66696.1	65608.7	469.83	µg/L	469.83	ppb	18:37:56
1	Zn 213.857†	36232.8	35296.0	446.74	µg/L	446.74	ppb	18:37:56
2	Sc RADIAL	21631.6	21631.6	98.2	%			18:36:55
2	Al 396.153Radial†	3199.0	3347.9	5366.5	µg/L	5366.5	ppb	18:36:55
2	Ca 317.933Radial†	7721.8	7778.9	5295.3	µg/L	5295.3	ppb	18:37:15
2	Fe 238.204 Radial†	1593.4	1594.0	5423.2	µg/L	5423.2	ppb	18:37:15
2	K 766.490 Radial†	4829.9	4264.7	5289.9	µg/L	5289.9	ppb	18:36:55
2	Mg 279.077 IEC†	776.9	786.6	5569.8	µg/L	5569.8	ppb	18:37:15
2	Na 589.592 Radial†	6700.5	6854.3	5359.9	µg/L	5359.9	ppb	18:36:55
2	Sr 421.552†	45334.9	46119.6	526.33	µg/L	526.33	ppb	18:36:55
2	Sc 361.383	1273605.6	1273605.6	101.09	%			18:38:19
2	Y 371.029	736639.9	736639.9	98.860	%			18:38:19
2	Ag 328.068†	76100.4	74609.8	499.85	µg/L	499.85	ppb	18:38:21
2	As 188.979†	236.0	236.0	471.92	µg/L	471.92	ppb	18:38:41
2	B 249.677†	41893.5	41182.1	477.16	µg/L	477.16	ppb	18:38:21
2	Ba 233.527†	36606.9	36294.6	511.41	µg/L	511.41	ppb	18:38:21
2	Be 313.107†	1185468.5	1179549.8	511.25	µg/L	511.25	ppb	18:38:19
2	Cd 226.502†	32266.5	32027.9	499.60	µg/L	499.60	ppb	18:38:21
2	Co 228.616†	17361.2	17272.3	508.14	µg/L	508.14	ppb	18:38:21
2	Cr 267.716†	25428.2	25034.2	458.34	µg/L	458.34	ppb	18:38:21
2	Cu 324.752†	74105.7	69444.4	466.53	µg/L	466.53	ppb	18:38:21
2	Mn 257.610†	160977.9	159036.2	463.47	µg/L	463.47	ppb	18:38:21
2	Mo 202.031†	4033.2	3998.5	451.96	µg/L	451.96	ppb	18:38:41
2	Ni 231.604†	15631.2	15505.4	462.48	µg/L	462.48	ppb	18:38:21
2	P 214.914†	430.3	485.7	500.68	µg/L	500.68	ppb	18:38:41
2	Pb 220.353†	2538.7	2408.9	517.57	µg/L	517.57	ppb	18:38:41

2	S 181.975 Axial†	1385.8	1347.9	4407.3	µg/L	4407.3	ppb	18:38:41
2	Sb 206.836†	742.7	729.3	461.00	µg/L	461.00	ppb	18:38:41
2	Se 196.026†	340.5	325.7	445	µg/L	445	ppb	18:38:41
2	SiO2†	53388.0	50990.8	9393.6	µg/L	9393.6	ppb	18:38:21
2	Si 251.611†	151040.1	148997.7	4380.3	µg/L	4380.3	ppb	18:38:21
2	Sn 189.927†	1188.3	1177.3	479.40	µg/L	479.40	ppb	18:38:41
2	Ti 334.940†	250793.9	246503.8	459.11	µg/L	459.11	ppb	18:38:21
2	Tl 190.801†	350.0	362.4	434.36	µg/L	434.36	ppb	18:38:41
2	U 367.007†	1963.7	1627.5	415.35	µg/L	415.35	ppb	18:38:21
2	V 292.402†	66145.4	65069.6	466.07	µg/L	466.07	ppb	18:38:21
2	Zn 213.857†	36209.6	35276.1	446.49	µg/L	446.49	ppb	18:38:21
3	Sc RADIAL	21941.1	21941.1	99.6	%			18:37:17
3	Al 396.153Radial†	3172.2	3275.1	5249.8	µg/L	5249.8	ppb	18:37:17
3	Ca 317.933Radial†	7700.0	7646.2	5204.9	µg/L	5204.9	ppb	18:37:37
3	Fe 238.204 Radial†	1588.1	1565.9	5326.9	µg/L	5326.9	ppb	18:37:37
3	K 766.490 Radial†	4909.5	4275.3	5303.1	µg/L	5303.1	ppb	18:37:17
3	Mg 279.077 IEC†	770.1	768.7	5442.8	µg/L	5442.8	ppb	18:37:37
3	Na 589.592 Radial†	6767.7	6825.5	5337.5	µg/L	5337.5	ppb	18:37:17
3	Sr 421.552†	45900.3	46036.0	525.38	µg/L	525.38	ppb	18:37:17
3	Sc 361.383	1259890.0	1259890.0	100.00	%			18:38:43
3	Y 371.029	729571.5	729571.5	97.911	%			18:38:43
3	Ag 328.068†	76711.4	76040.3	509.45	µg/L	509.45	ppb	18:38:45
3	As 188.979†	229.3	231.8	463.76	µg/L	463.76	ppb	18:39:05
3	B 249.677†	42254.0	41993.7	487.36	µg/L	487.36	ppb	18:38:45
3	Ba 233.527†	36949.4	37031.3	521.79	µg/L	521.79	ppb	18:38:45
3	Be 313.107†	1204893.1	1211740.3	525.20	µg/L	525.20	ppb	18:38:43
3	Cd 226.502†	32621.5	32730.4	510.59	µg/L	510.59	ppb	18:38:45
3	Co 228.616†	17459.6	17557.6	516.52	µg/L	516.52	ppb	18:38:45
3	Cr 267.716†	25744.4	25624.2	469.15	µg/L	469.15	ppb	18:38:45
3	Cu 324.752†	74724.1	70860.9	476.01	µg/L	476.01	ppb	18:38:45
3	Mn 257.610†	162347.5	162139.3	472.52	µg/L	472.52	ppb	18:38:45
3	Mo 202.031†	3949.2	3958.0	447.37	µg/L	447.37	ppb	18:39:05
3	Ni 231.604†	15803.7	15846.2	472.65	µg/L	472.65	ppb	18:38:45
3	P 214.914†	413.3	473.3	487.58	µg/L	487.58	ppb	18:39:05
3	Pb 220.353†	2483.5	2381.0	511.59	µg/L	511.59	ppb	18:39:05
3	S 181.975 Axial†	1345.2	1322.2	4323.4	µg/L	4323.4	ppb	18:39:05
3	Sb 206.836†	733.1	727.7	459.85	µg/L	459.85	ppb	18:39:05
3	Se 196.026†	322.5	311.4	426	µg/L	426	ppb	18:39:05
3	SiO2†	53714.0	51891.7	9559.6	µg/L	9559.6	ppb	18:38:45
3	Si 251.611†	152132.4	151716.5	4460.4	µg/L	4460.4	ppb	18:38:45
3	Sn 189.927†	1155.4	1157.3	471.25	µg/L	471.25	ppb	18:39:05
3	Ti 334.940†	252361.6	250772.3	467.06	µg/L	467.06	ppb	18:38:45
3	Tl 190.801†	344.5	360.8	432.27	µg/L	432.27	ppb	18:39:05
3	U 367.007†	1917.1	1602.0	408.83	µg/L	408.83	ppb	18:38:45
3	V 292.402†	66724.5	66361.0	475.12	µg/L	475.12	ppb	18:38:45
3	Zn 213.857†	36566.3	36022.7	455.96	µg/L	455.96	ppb	18:38:45

Mean Data: 1202969095|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1269069.5	100.73	%	0.631				0.63%
Sc RADIAL	21995.3	99.9	%	1.79				1.79%
Y 371.029	732718.3	98.333	%	0.4828				0.49%
Ag 328.068†	75319.8	504.62	µg/L	4.798	504.62	ppb	4.798	0.95%
Al 396.153Radial†	3272.8	5246.1	µg/L	122.26	5246.1	ppb	122.26	2.33%
As 188.979†	233.6	467.26	µg/L	4.203	467.26	ppb	4.203	0.90%
B 249.677†	41547.6	482.08	µg/L	5.110	482.08	ppb	5.110	1.06%
Ba 233.527†	36674.0	516.76	µg/L	5.198	516.76	ppb	5.198	1.01%
Be 313.107†	1185693.8	513.91	µg/L	10.221	513.91	ppb	10.221	1.99%
Ca 317.933Radial†	7611.1	5181.1	µg/L	127.80	5181.1	ppb	127.80	2.47%
Cd 226.502†	32403.5	505.49	µg/L	5.534	505.49	ppb	5.534	1.09%
Co 228.616†	17385.9	511.47	µg/L	4.445	511.47	ppb	4.445	0.87%
Cr 267.716†	25345.9	464.05	µg/L	5.431	464.05	ppb	5.431	1.17%
Cu 324.752†	70106.2	470.95	µg/L	4.775	470.95	ppb	4.775	1.01%
Fe 238.204 Radial†	1558.3	5301.2	µg/L	136.74	5301.2	ppb	136.74	2.58%
K 766.490 Radial†	4214.6	5227.8	µg/L	119.06	5227.8	ppb	119.06	2.28%
Mg 279.077 IEC†	766.8	5429.7	µg/L	147.10	5429.7	ppb	147.10	2.71%
Mn 257.610†	160466.4	467.64	µg/L	4.565	467.64	ppb	4.565	0.98%
Mo 202.031†	3983.2	450.22	µg/L	2.486	450.22	ppb	2.486	0.55%
Na 589.592 Radial†	6763.1	5288.6	µg/L	104.66	5288.6	ppb	104.66	1.98%

Ni 231.604†	15687.3	467.91	µg/L	5.118	467.91	ppb	5.118	1.09%
P 214.914†	482.8	497.69	µg/L	8.990	497.69	ppb	8.990	1.81%
Pb 220.353†	2398.3	515.33	µg/L	3.256	515.33	ppb	3.256	0.63%
S 181.975 Axial†	1339.3	4379.2	µg/L	48.32	4379.2	ppb	48.32	1.10%
Sb 206.836†	730.6	461.75	µg/L	2.363	461.75	ppb	2.363	0.51%
Se 196.026†	317.3	434	µg/L	10.2	434	ppb	10.2	2.35%
SiO2†	51347.3	9459.3	µg/L	88.25	9459.3	ppb	88.25	0.93%
Si 251.611†	150142.3	4414.0	µg/L	41.52	4414.0	ppb	41.52	0.94%
Sn 189.927†	1172.0	477.22	µg/L	5.237	477.22	ppb	5.237	1.10%
Sr 421.552†	45586.4	520.24	µg/L	9.726	520.24	ppb	9.726	1.87%
Ti 334.940†	248477.5	462.79	µg/L	4.008	462.79	ppb	4.008	0.87%
Tl 190.801†	362.4	434.34	µg/L	2.061	434.34	ppb	2.061	0.47%
U 367.007†	1593.2	406.56	µg/L	10.123	406.56	ppb	10.123	2.49%
V 292.402†	65679.8	470.34	µg/L	4.546	470.34	ppb	4.546	0.97%
Zn 213.857†	35531.6	449.73	µg/L	5.399	449.73	ppb	5.399	1.20%

Sequence No.: 11 **Autosampler Location: 309**
Sample ID: 335304011|1339675|1 **Date Collected: 11/6/2013 18:39:14**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304011|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22074.9	22074.9	100	%			18:39:44
1	Al 396.153Radial†	-107.2	-15.8	53.751	µg/L	53.751	ppb	18:40:04
1	Ca 317.933Radial†	235856.2	235209.2	160130	µg/L	160130	ppb	18:39:44
1	Fe 238.204 Radial†	543.0	513.5	1752.2	µg/L	1752.2	ppb	18:40:04
1	K 766.490 Radial†	12655.8	11973.2	14781	µg/L	14781	ppb	18:39:44
1	Mg 279.077 IEC†	13796.4	13759.1	97409	µg/L	97409	ppb	18:39:44
1	Na 589.592 Radial†	148795.0	148471.7	116100	µg/L	116100	ppb	18:39:44
1	Sr 421.552†	193198.0	192701.8	2198.1	µg/L	2198.1	ppb	18:39:44
1	Sc 361.383	1216505.2	1216505.2	96.558	%			18:41:06
1	Y 371.029	698429.0	698429.0	93.732	%			18:41:06
1	Ag 328.068†	1327.6	705.3	0.5250	µg/L	0.5250	ppb	18:41:06
1	As 188.979†	-0.3	2.3	4.7101	µg/L	4.7101	ppb	18:41:26
1	B 249.677†	63698.3	65709.3	781.85	µg/L	781.85	ppb	18:41:06
1	Ba 233.527†	37504.7	38924.1	547.16	µg/L	547.16	ppb	18:41:06
1	Be 313.107†	-6889.1	-265.5	-0.1151	µg/L	-0.1151	ppb	18:41:06
1	Cd 226.502†	-109.0	-3.4	-0.2702	µg/L	-0.2702	ppb	18:41:26
1	Co 228.616†	-47.1	49.6	1.7398	µg/L	1.7398	ppb	18:41:26
1	Cr 267.716†	291.7	182.3	2.3677	µg/L	2.3677	ppb	18:41:26
1	Cu 324.752†	3908.3	185.7	1.9889	µg/L	1.9889	ppb	18:41:06
1	Mn 257.610†	27175.0	27938.4	77.836	µg/L	77.836	ppb	18:41:06
1	Mo 202.031†	-89.8	-84.1	-6.0452	µg/L	-6.0452	ppb	18:41:26
1	Ni 231.604†	594.7	658.7	19.639	µg/L	19.639	ppb	18:41:26
1	P 214.914†	27.8	88.9	91.976	µg/L	91.976	ppb	18:41:26
1	Pb 220.353†	127.3	29.4	6.2019	µg/L	6.2019	ppb	18:41:26
1	S 181.975 Axial†	1180.7	1199.8	3906.1	µg/L	3906.1	ppb	18:41:26
1	Sb 206.836†	2.6	-2.6	-1.7454	µg/L	-1.7454	ppb	18:41:26
1	Se 196.026†	12.8	2.2	3.11	µg/L	3.11	ppb	18:41:26
1	SiO2†	195990.5	201155.2	37022	µg/L	37022	ppb	18:41:06
1	Si 251.611†	567634.0	587453.9	17292	µg/L	17292	ppb	18:41:06
1	Sn 189.927†	-66.7	-67.2	-12.874	µg/L	-12.874	ppb	18:41:26
1	Ti 334.940†	-2749.1	-4431.8	-0.3085	µg/L	-0.3085	ppb	18:41:06
1	Tl 190.801†	-14.2	1.6	0.1381	µg/L	0.1381	ppb	18:41:26
1	U 367.007†	396.1	95.1	-15.071	µg/L	-15.071	ppb	18:41:06
1	V 292.402†	959.3	631.2	4.6317	µg/L	4.6317	ppb	18:41:06
1	Zn 213.857†	1256.6	758.5	7.5354	µg/L	7.5354	ppb	18:41:26
2	Sc RADIAL	21441.4	21441.4	97.4	%			18:40:06
2	Al 396.153Radial†	-104.9	-16.6	53.003	µg/L	53.003	ppb	18:40:26
2	Ca 317.933Radial†	230423.9	236582.2	161060	µg/L	161060	ppb	18:40:06
2	Fe 238.204 Radial†	546.2	532.9	1818.2	µg/L	1818.2	ppb	18:40:26
2	K 766.490 Radial†	12329.6	12011.2	14828	µg/L	14828	ppb	18:40:06
2	Mg 279.077 IEC†	13430.4	13789.8	97627	µg/L	97627	ppb	18:40:06
2	Na 589.592 Radial†	145116.5	149079.6	116580	µg/L	116580	ppb	18:40:06
2	Sr 421.552†	190054.8	195168.4	2226.2	µg/L	2226.2	ppb	18:40:06
2	Sc 361.383	1235776.5	1235776.5	98.088	%			18:41:28
2	Y 371.029	709430.0	709430.0	95.208	%			18:41:28
2	Ag 328.068†	1361.1	717.9	0.5301	µg/L	0.5301	ppb	18:41:28
2	As 188.979†	2.5	5.1	10.293	µg/L	10.293	ppb	18:41:48
2	B 249.677†	64972.3	65979.4	784.84	µg/L	784.84	ppb	18:41:28
2	Ba 233.527†	38250.0	39078.3	549.32	µg/L	549.32	ppb	18:41:28
2	Be 313.107†	-7022.4	-290.2	-0.1258	µg/L	-0.1258	ppb	18:41:28
2	Cd 226.502†	-107.3	0.1	-0.2235	µg/L	-0.2235	ppb	18:41:48
2	Co 228.616†	-42.9	54.6	1.8882	µg/L	1.8882	ppb	18:41:48
2	Cr 267.716†	294.7	180.8	2.2995	µg/L	2.2995	ppb	18:41:48
2	Cu 324.752†	3997.2	213.3	2.2120	µg/L	2.2120	ppb	18:41:28
2	Mn 257.610†	27825.0	28162.2	78.481	µg/L	78.481	ppb	18:41:28
2	Mo 202.031†	-89.2	-82.1	-5.8128	µg/L	-5.8128	ppb	18:41:48
2	Ni 231.604†	593.3	647.7	19.309	µg/L	19.309	ppb	18:41:48
2	P 214.914†	23.6	84.1	86.816	µg/L	86.816	ppb	18:41:48
2	Pb 220.353†	114.5	14.3	2.9240	µg/L	2.9240	ppb	18:41:48

2	S 181.975 Axial†	1188.4	1188.7	3869.3	µg/L	3869.3	ppb	18:41:48
2	Sb 206.836†	9.1	3.9	2.3955	µg/L	2.3955	ppb	18:41:48
2	Se 196.026†	11.1	0.2	0.420	µg/L	0.420	ppb	18:41:48
2	SiO2†	199257.4	201320.5	37052	µg/L	37052	ppb	18:41:28
2	Si 251.611†	578527.8	589392.7	17349	µg/L	17349	ppb	18:41:28
2	Sn 189.927†	-70.6	-70.1	-13.971	µg/L	-13.971	ppb	18:41:48
2	Ti 334.940†	-2864.2	-4504.8	-0.4268	µg/L	-0.4268	ppb	18:41:28
2	Tl 190.801†	-7.0	9.1	9.2723	µg/L	9.2723	ppb	18:41:48
2	U 367.007†	617.9	314.9	44.693	µg/L	44.693	ppb	18:41:28
2	V 292.402†	930.5	586.3	4.3630	µg/L	4.3630	ppb	18:41:28
2	Zn 213.857†	1259.2	740.8	7.3008	µg/L	7.3008	ppb	18:41:48
3	Sc RADIAL	21960.9	21960.9	99.7	%			18:40:28
3	Al 396.153Radial†	-118.6	-27.8	35.183	µg/L	35.183	ppb	18:40:48
3	Ca 317.933Radial†	236554.2	237131.2	161440	µg/L	161440	ppb	18:40:28
3	Fe 238.204 Radial†	546.8	520.2	1775.1	µg/L	1775.1	ppb	18:40:48
3	K 766.490 Radial†	12691.1	12074.2	14906	µg/L	14906	ppb	18:40:28
3	Mg 279.077 IEC†	13833.6	13867.9	98180	µg/L	98180	ppb	18:40:28
3	Na 589.592 Radial†	147841.7	148286.6	115960	µg/L	115960	ppb	18:40:28
3	Sr 421.552†	193860.7	194367.3	2217.1	µg/L	2217.1	ppb	18:40:28
3	Sc 361.383	1211366.1	1211366.1	96.150	%			18:41:51
3	Y 371.029	695652.6	695652.6	93.359	%			18:41:51
3	Ag 328.068†	1227.6	607.0	-0.1987	µg/L	-0.1987	ppb	18:41:51
3	As 188.979†	-3.2	-0.8	-1.2279	µg/L	-1.2279	ppb	18:42:11
3	B 249.677†	63614.9	65902.4	784.04	µg/L	784.04	ppb	18:41:51
3	Ba 233.527†	37472.7	39055.6	549.00	µg/L	549.00	ppb	18:41:51
3	Be 313.107†	-6751.7	-152.9	-0.0663	µg/L	-0.0663	ppb	18:41:51
3	Cd 226.502†	-98.5	7.0	-0.1099	µg/L	-0.1099	ppb	18:42:11
3	Co 228.616†	-62.7	33.2	1.2559	µg/L	1.2559	ppb	18:42:11
3	Cr 267.716†	288.6	180.4	2.3045	µg/L	2.3045	ppb	18:42:11
3	Cu 324.752†	3957.0	253.6	2.4661	µg/L	2.4661	ppb	18:41:51
3	Mn 257.610†	27207.1	28091.2	78.253	µg/L	78.253	ppb	18:41:51
3	Mo 202.031†	-103.0	-98.3	-7.6155	µg/L	-7.6155	ppb	18:42:11
3	Ni 231.604†	597.8	664.6	19.815	µg/L	19.815	ppb	18:42:11
3	P 214.914†	19.0	79.8	82.367	µg/L	82.367	ppb	18:42:11
3	Pb 220.353†	123.2	25.7	5.3908	µg/L	5.3908	ppb	18:42:11
3	S 181.975 Axial†	1184.8	1209.3	3937.0	µg/L	3937.0	ppb	18:42:11
3	Sb 206.836†	7.4	2.3	1.3715	µg/L	1.3715	ppb	18:42:11
3	Se 196.026†	11.6	1.0	1.53	µg/L	1.53	ppb	18:42:11
3	SiO2†	195582.5	201592.1	37102	µg/L	37102	ppb	18:41:51
3	Si 251.611†	567514.9	589824.1	17362	µg/L	17362	ppb	18:41:51
3	Sn 189.927†	-74.6	-75.7	-16.205	µg/L	-16.205	ppb	18:42:11
3	Ti 334.940†	-2634.6	-4324.8	-0.0603	µg/L	-0.0603	ppb	18:41:51
3	Tl 190.801†	-10.6	5.2	4.5135	µg/L	4.5135	ppb	18:42:11
3	U 367.007†	506.6	211.8	16.547	µg/L	16.547	ppb	18:41:51
3	V 292.402†	806.0	476.0	3.5395	µg/L	3.5395	ppb	18:41:51
3	Zn 213.857†	1241.7	748.5	7.3897	µg/L	7.3897	ppb	18:42:11

Mean Data: 335304011|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1221216.0	96.932	%	1.0215				1.05%
Sc RADIAL	21825.7	99.1	%	1.53				1.55%
Y 371.029	701170.5	94.100	%	0.9779				1.04%
Ag 328.068†	676.7	0.2855	µg/L	0.41933	0.2855	ppb	0.41933	146.89%
Al 396.153Radial†	-20.1	47.313	µg/L	10.5110	47.313	ppb	10.5110	22.22%
As 188.979†	2.2	4.5918	µg/L	5.76152	4.5918	ppb	5.76152	125.47%
B 249.677†	65863.7	783.58	µg/L	1.552	783.58	ppb	1.552	0.20%
Ba 233.527†	39019.3	548.49	µg/L	1.168	548.49	ppb	1.168	0.21%
Be 313.107†	-236.2	-0.1024	µg/L	0.03173	-0.1024	ppb	0.03173	30.99%
Ca 317.933Radial†	236307.5	160880	µg/L	674.0	160880	ppb	674.0	0.42%
Cd 226.502†	1.2	-0.2012	µg/L	0.08244	-0.2012	ppb	0.08244	40.97%
Co 228.616†	45.8	1.6280	µg/L	0.33064	1.6280	ppb	0.33064	20.31%
Cr 267.716†	181.2	2.3239	µg/L	0.03802	2.3239	ppb	0.03802	1.64%
Cu 324.752†	217.5	2.2223	µg/L	0.23878	2.2223	ppb	0.23878	10.74%
Fe 238.204 Radial†	522.2	1781.8	µg/L	33.50	1781.8	ppb	33.50	1.88%
K 766.490 Radial†	12019.5	14838	µg/L	63.2	14838	ppb	63.2	0.43%
Mg 279.077 IEC†	13805.6	97739	µg/L	397.1	97739	ppb	397.1	0.41%
Mn 257.610†	28063.9	78.190	µg/L	0.3273	78.190	ppb	0.3273	0.42%
Mo 202.031†	-88.2	-6.4912	µg/L	0.98060	-6.4912	ppb	0.98060	15.11%
Na 589.592 Radial†	148612.6	116210	µg/L	324.4	116210	ppb	324.4	0.28%

Ni 231.604†	657.0	19.588	µg/L	0.2567	19.588	ppb	0.2567	1.31%
P 214.914†	84.3	87.053	µg/L	4.8090	87.053	ppb	4.8090	5.52%
Pb 220.353†	23.1	4.8389	µg/L	1.70723	4.8389	ppb	1.70723	35.28%
S 181.975 Axial†	1199.3	3904.1	µg/L	33.88	3904.1	ppb	33.88	0.87%
Sb 206.836†	1.2	0.6739	µg/L	2.15684	0.6739	ppb	2.15684	320.07%
Se 196.026†	1.1	1.69	µg/L	1.354	1.69	ppb	1.354	80.30%
SiO2†	201355.9	37059	µg/L	40.6	37059	ppb	40.6	0.11%
Si 251.611†	588890.2	17334	µg/L	37.2	17334	ppb	37.2	0.21%
Sn 189.927†	-71.0	-14.350	µg/L	1.6976	-14.350	ppb	1.6976	11.83%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	194079.2	2213.8	µg/L	14.36	2213.8	ppb	14.36	0.65%
Ti 334.940†	-4420.5	-0.2652	µg/L	0.18707	-0.2652	ppb	0.18707	70.54%
Tl 190.801†	5.3	4.6413	µg/L	4.56846	4.6413	ppb	4.56846	98.43%
U 367.007†	207.3	15.389	µg/L	29.8988	15.389	ppb	29.8988	194.28%
V 292.402†	564.5	4.1781	µg/L	0.56913	4.1781	ppb	0.56913	13.62%
Zn 213.857†	749.2	7.4087	µg/L	0.11844	7.4087	ppb	0.11844	1.60%

Sequence No.: 12 **Autosampler Location: 310**
Sample ID: 1202969096|1339675|1 **Date Collected: 11/6/2013 18:42:19**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969096|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21679.5	21679.5	98.4	%			18:42:49
1	Al 396.153Radial†	-117.1	-27.8	35.159	µg/L	35.159	ppb	18:43:09
1	Ca 317.933Radial†	233303.1	236907.8	161290	µg/L	161290	ppb	18:42:49
1	Fe 238.204 Radial†	555.4	536.1	1829.0	µg/L	1829.0	ppb	18:43:09
1	K 766.490 Radial†	12485.9	12030.9	14852	µg/L	14852	ppb	18:42:49
1	Mg 279.077 IEC†	13625.4	13836.4	97957	µg/L	97957	ppb	18:42:49
1	Na 589.592 Radial†	146576.6	148925.8	116460	µg/L	116460	ppb	18:42:49
1	Sr 421.552†	190112.5	193083.2	2202.4	µg/L	2202.4	ppb	18:42:49
1	Sc 361.383	1207694.4	1207694.4	95.859	%			18:44:11
1	Y 371.029	693848.1	693848.1	93.117	%			18:44:11
1	Ag 328.068†	1254.0	638.4	0.0184	µg/L	0.0184	ppb	18:44:11
1	As 188.979†	1.3	3.9	7.9753	µg/L	7.9753	ppb	18:44:31
1	B 249.677†	63333.5	65810.0	782.75	µg/L	782.75	ppb	18:44:11
1	Ba 233.527†	37296.0	38989.8	548.08	µg/L	548.08	ppb	18:44:11
1	Be 313.107†	-6774.7	-198.2	-0.0859	µg/L	-0.0859	ppb	18:44:11
1	Cd 226.502†	-114.1	-9.6	-0.3813	µg/L	-0.3813	ppb	18:44:31
1	Co 228.616†	-29.1	68.0	2.2787	µg/L	2.2787	ppb	18:44:31
1	Cr 267.716†	306.8	200.3	2.6754	µg/L	2.6754	ppb	18:44:31
1	Cu 324.752†	3034.3	-696.5	-3.8949	µg/L	-3.8949	ppb	18:44:11
1	Mn 257.610†	27080.2	28044.8	78.127	µg/L	78.127	ppb	18:44:11
1	Mo 202.031†	-93.3	-88.5	-6.5202	µg/L	-6.5202	ppb	18:44:31
1	Ni 231.604†	341.3	398.8	11.888	µg/L	11.888	ppb	18:44:31
1	P 214.914†	29.7	91.0	94.217	µg/L	94.217	ppb	18:44:31
1	Pb 220.353†	111.3	13.7	2.8124	µg/L	2.8124	ppb	18:44:31
1	S 181.975 Axial†	1170.4	1198.0	3900.1	µg/L	3900.1	ppb	18:44:31
1	Sb 206.836†	-0.1	-5.4	-3.5281	µg/L	-3.5281	ppb	18:44:31
1	Se 196.026†	12.8	2.2	3.22	µg/L	3.22	ppb	18:44:31
1	SiO2†	194134.0	200699.4	36938	µg/L	36938	ppb	18:44:11
1	Si 251.611†	562921.3	586826.5	17274	µg/L	17274	ppb	18:44:11
1	Sn 189.927†	-68.3	-69.4	-13.664	µg/L	-13.664	ppb	18:44:31
1	Ti 334.940†	-2416.0	-4105.1	0.3434	µg/L	0.3434	ppb	18:44:11
1	Tl 190.801†	-12.2	3.5	2.4635	µg/L	2.4635	ppb	18:44:31
1	U 367.007†	495.7	202.1	13.639	µg/L	13.639	ppb	18:44:11
1	V 292.402†	831.2	504.8	3.7633	µg/L	3.7633	ppb	18:44:11
1	Zn 213.857†	1272.0	784.0	7.8971	µg/L	7.8971	ppb	18:44:31
2	Sc RADIAL	21650.9	21650.9	98.3	%			18:43:11
2	Al 396.153Radial†	-104.3	-14.9	57.327	µg/L	57.327	ppb	18:43:31
2	Ca 317.933Radial†	237445.5	241434.3	164370	µg/L	164370	ppb	18:43:11
2	Fe 238.204 Radial†	556.0	537.4	1833.7	µg/L	1833.7	ppb	18:43:31
2	K 766.490 Radial†	12619.8	12183.9	15041	µg/L	15041	ppb	18:43:11
2	Mg 279.077 IEC†	13899.1	14133.2	100060	µg/L	100060	ppb	18:43:11
2	Na 589.592 Radial†	147678.3	150243.1	117490	µg/L	117490	ppb	18:43:11
2	Sr 421.552†	193637.9	196924.3	2246.2	µg/L	2246.2	ppb	18:43:11
2	Sc 361.383	1210374.5	1210374.5	96.072	%			18:44:33
2	Y 371.029	695255.8	695255.8	93.306	%			18:44:33
2	Ag 328.068†	1354.5	740.2	0.6232	µg/L	0.6232	ppb	18:44:33
2	As 188.979†	0.8	3.3	6.8834	µg/L	6.8834	ppb	18:44:53
2	B 249.677†	63531.9	65870.3	783.38	µg/L	783.38	ppb	18:44:33
2	Ba 233.527†	37158.4	38760.4	544.85	µg/L	544.85	ppb	18:44:33
2	Be 313.107†	-6673.0	-76.7	-0.0333	µg/L	-0.0333	ppb	18:44:33
2	Cd 226.502†	-96.2	9.3	-0.0865	µg/L	-0.0865	ppb	18:44:53
2	Co 228.616†	-43.1	53.5	1.8518	µg/L	1.8518	ppb	18:44:53
2	Cr 267.716†	306.5	199.3	2.6404	µg/L	2.6404	ppb	18:44:53
2	Cu 324.752†	2932.6	-809.3	-4.6435	µg/L	-4.6435	ppb	18:44:33
2	Mn 257.610†	27023.7	27923.5	77.695	µg/L	77.695	ppb	18:44:33
2	Mo 202.031†	-94.5	-89.5	-6.5634	µg/L	-6.5634	ppb	18:44:53
2	Ni 231.604†	358.8	416.3	12.409	µg/L	12.409	ppb	18:44:53
2	P 214.914†	8.3	68.7	70.508	µg/L	70.508	ppb	18:44:53
2	Pb 220.353†	100.3	2.0	0.3079	µg/L	0.3079	ppb	18:44:53

2	S 181.975 Axial†	1160.8	1185.4	3858.2	µg/L	3858.2	ppb	18:44:53
2	Sb 206.836†	10.3	5.4	3.3243	µg/L	3.3243	ppb	18:44:53
2	Se 196.026†	17.6	7.2	10.00	µg/L	10.00	ppb	18:44:53
2	SiO2†	194208.8	200328.8	36870	µg/L	36870	ppb	18:44:33
2	Si 251.611†	564209.8	586867.4	17275	µg/L	17275	ppb	18:44:33
2	Sn 189.927†	-62.7	-63.4	-10.930	µg/L	-10.930	ppb	18:44:53
2	Ti 334.940†	-2562.4	-4251.9	0.2253	µg/L	0.2253	ppb	18:44:33
2	Tl 190.801†	-12.3	3.4	2.3446	µg/L	2.3446	ppb	18:44:53
2	U 367.007†	473.8	178.1	6.4224	µg/L	6.4224	ppb	18:44:33
2	V 292.402†	783.6	453.3	3.3961	µg/L	3.3961	ppb	18:44:33
2	Zn 213.857†	1288.5	798.3	8.0362	µg/L	8.0362	ppb	18:44:53
3	Sc RADIAL	21577.2	21577.2	98.0	%			18:43:33
3	Al 396.153Radial†	-119.4	-30.7	31.113	µg/L	31.113	ppb	18:43:53
3	Ca 317.933Radial†	234283.7	239031.6	162730	µg/L	162730	ppb	18:43:33
3	Fe 238.204 Radial†	561.2	544.7	1858.5	µg/L	1858.5	ppb	18:43:53
3	K 766.490 Radial†	12629.3	12237.4	15108	µg/L	15108	ppb	18:43:33
3	Mg 279.077 IEC†	13662.3	13939.7	98688	µg/L	98688	ppb	18:43:33
3	Na 589.592 Radial†	144794.4	147812.5	115590	µg/L	115590	ppb	18:43:33
3	Sr 421.552†	191438.8	195352.0	2228.3	µg/L	2228.3	ppb	18:43:33
3	Sc 361.383	1203910.4	1203910.4	95.559	%			18:44:56
3	Y 371.029	691661.5	691661.5	92.823	%			18:44:56
3	Ag 328.068†	1210.9	597.5	-0.2926	µg/L	-0.2926	ppb	18:44:56
3	As 188.979†	-0.2	2.3	4.8481	µg/L	4.8481	ppb	18:45:16
3	B 249.677†	63205.8	65884.1	783.42	µg/L	783.42	ppb	18:44:56
3	Ba 233.527†	37021.3	38824.6	545.76	µg/L	545.76	ppb	18:44:56
3	Be 313.107†	-6162.3	420.4	0.1822	µg/L	0.1822	ppb	18:44:56
3	Cd 226.502†	-117.8	-13.7	-0.4489	µg/L	-0.4489	ppb	18:45:16
3	Co 228.616†	-57.5	38.2	1.4017	µg/L	1.4017	ppb	18:45:16
3	Cr 267.716†	320.9	216.1	2.9588	µg/L	2.9588	ppb	18:45:16
3	Cu 324.752†	2967.9	-756.0	-4.2862	µg/L	-4.2862	ppb	18:44:56
3	Mn 257.610†	27054.3	28106.5	78.280	µg/L	78.280	ppb	18:44:56
3	Mo 202.031†	-94.7	-90.2	-6.6861	µg/L	-6.6861	ppb	18:45:16
3	Ni 231.604†	389.3	450.2	13.421	µg/L	13.421	ppb	18:45:16
3	P 214.914†	18.2	79.0	81.492	µg/L	81.492	ppb	18:45:16
3	Pb 220.353†	103.7	6.1	1.1824	µg/L	1.1824	ppb	18:45:16
3	S 181.975 Axial†	1189.6	1221.9	3978.1	µg/L	3978.1	ppb	18:45:16
3	Sb 206.836†	4.5	-0.6	-0.4878	µg/L	-0.4878	ppb	18:45:16
3	Se 196.026†	20.4	10.2	14.1	µg/L	14.1	ppb	18:45:16
3	SiO2†	193424.9	200593.8	36918	µg/L	36918	ppb	18:44:56
3	Si 251.611†	560803.4	586455.9	17263	µg/L	17263	ppb	18:44:56
3	Sn 189.927†	-74.1	-75.7	-16.079	µg/L	-16.079	ppb	18:45:16
3	Ti 334.940†	-2499.8	-4200.8	0.2379	µg/L	0.2379	ppb	18:44:56
3	Tl 190.801†	-18.1	-2.6	-4.9984	µg/L	-4.9984	ppb	18:45:16
3	U 367.007†	493.8	201.8	13.125	µg/L	13.125	ppb	18:44:56
3	V 292.402†	861.8	539.6	4.0113	µg/L	4.0113	ppb	18:44:56
3	Zn 213.857†	1276.0	792.4	7.9782	µg/L	7.9782	ppb	18:45:16

Mean Data: 1202969096|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1207326.5	95.830	%	0.2578				0.27%
Sc RADIAL	21635.9	98.2	%	0.24				0.24%
Y 371.029	693588.5	93.082	%	0.2431				0.26%
Ag 328.068†	658.7	0.1163	µg/L	0.46569	0.1163	ppb	0.46569	400.39%
Al 396.153Radial†	-24.5	41.200	µg/L	14.1124	41.200	ppb	14.1124	34.25%
As 188.979†	3.2	6.5689	µg/L	1.58713	6.5689	ppb	1.58713	24.16%
B 249.677†	65854.8	783.18	µg/L	0.379	783.18	ppb	0.379	0.05%
Ba 233.527†	38858.3	546.23	µg/L	1.664	546.23	ppb	1.664	0.30%
Be 313.107†	48.5	0.0210	µg/L	0.14207	0.0210	ppb	0.14207	676.11%
Ca 317.933Radial†	239124.6	162800	µg/L	1541.8	162800	ppb	1541.8	0.95%
Cd 226.502†	-4.7	-0.3055	µg/L	0.19272	-0.3055	ppb	0.19272	63.07%
Co 228.616†	53.3	1.8441	µg/L	0.43857	1.8441	ppb	0.43857	23.78%
Cr 267.716†	205.3	2.7582	µg/L	0.17462	2.7582	ppb	0.17462	6.33%
Cu 324.752†	-753.9	-4.2748	µg/L	0.37443	-4.2748	ppb	0.37443	8.76%
Fe 238.204 Radial†	539.4	1840.4	µg/L	15.84	1840.4	ppb	15.84	0.86%
K 766.490 Radial†	12150.7	15001	µg/L	132.8	15001	ppb	132.8	0.89%
Mg 279.077 IEC†	13969.8	98901	µg/L	1066.3	98901	ppb	1066.3	1.08%
Mn 257.610†	28024.9	78.034	µg/L	0.3035	78.034	ppb	0.3035	0.39%
Mo 202.031†	-89.4	-6.5899	µg/L	0.08607	-6.5899	ppb	0.08607	1.31%
Na 589.592 Radial†	148993.8	116510	µg/L	951.5	116510	ppb	951.5	0.82%

Ni 231.604†	421.8	12.572	µg/L	0.7794	12.572	ppb	0.7794	6.20%
P 214.914†	79.6	82.072	µg/L	11.8650	82.072	ppb	11.8650	14.46%
Pb 220.353†	7.2	1.4342	µg/L	1.27113	1.4342	ppb	1.27113	88.63%
S 181.975 Axial†	1201.8	3912.1	µg/L	60.82	3912.1	ppb	60.82	1.55%
Sb 206.836†	-0.2	-0.2305	µg/L	3.43347	-0.2305	ppb	3.43347	>999.9%
Se 196.026†	6.6	9.11	µg/L	5.501	9.11	ppb	5.501	60.38%
SiO2†	200540.7	36909	µg/L	35.1	36909	ppb	35.1	0.10%
Si 251.611†	586716.6	17270	µg/L	6.7	17270	ppb	6.7	0.04%
Sn 189.927†	-69.5	-13.557	µg/L	2.5759	-13.557	ppb	2.5759	19.00%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	195119.8	2225.7	µg/L	22.03	2225.7	ppb	22.03	0.99%
Ti 334.940†	-4185.9	0.2689	µg/L	0.06486	0.2689	ppb	0.06486	24.12%
Tl 190.801†	1.4	-0.0634	µg/L	4.27423	-0.0634	ppb	4.27423	>999.9%
U 367.007†	194.0	11.062	µg/L	4.0262	11.062	ppb	4.0262	36.40%
V 292.402†	499.2	3.7235	µg/L	0.30951	3.7235	ppb	0.30951	8.31%
Zn 213.857†	791.6	7.9705	µg/L	0.06987	7.9705	ppb	0.06987	0.88%

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Sequence No.: 13 **Autosampler Location: 311**
Sample ID: 1202969097|1339675|1 **Date Collected: 11/6/2013 18:45:24**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969097|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21618.1	21618.1	98.2	%			18:46:14
1	Al 396.153Radial†	3056.5	3204.8	5215.0	µg/L	5215.0	ppb	18:46:14
1	Ca 317.933Radial†	235978.7	240305.8	163600	µg/L	163600	ppb	18:45:54
1	Fe 238.204 Radial†	2057.3	2067.6	7039.9	µg/L	7039.9	ppb	18:46:14
1	K 766.490 Radial†	16033.7	15681.0	19383	µg/L	19383	ppb	18:45:54
1	Mg 279.077 IEC†	14455.5	14721.3	104220	µg/L	104220	ppb	18:46:14
1	Na 589.592 Radial†	146819.4	149595.6	116980	µg/L	116980	ppb	18:45:54
1	Sr 421.552†	229027.1	233272.9	2661.1	µg/L	2661.1	ppb	18:45:54
1	Sc 361.383	1204130.1	1204130.1	95.576	%			18:47:16
1	Y 371.029	688759.0	688759.0	92.434	%			18:47:16
1	Ag 328.068†	74140.5	76902.6	511.02	µg/L	511.02	ppb	18:47:18
1	As 188.979†	238.2	251.8	503.33	µg/L	503.33	ppb	18:47:38
1	B 249.677†	104880.5	109475.8	1290.9	µg/L	1290.9	ppb	18:47:18
1	Ba 233.527†	70444.4	73787.7	1038.5	µg/L	1038.5	ppb	18:47:18
1	Be 313.107†	1118360.8	1176996.8	510.14	µg/L	510.14	ppb	18:47:16
1	Cd 226.502†	29211.1	30672.7	478.22	µg/L	478.22	ppb	18:47:18
1	Co 228.616†	15511.8	16328.2	480.62	µg/L	480.62	ppb	18:47:18
1	Cr 267.716†	23783.7	24764.9	452.38	µg/L	452.38	ppb	18:47:18
1	Cu 324.752†	73683.0	73231.8	492.64	µg/L	492.64	ppb	18:47:18
1	Mn 257.610†	173053.2	180858.2	523.43	µg/L	523.43	ppb	18:47:18
1	Mo 202.031†	3867.6	4055.5	461.89	µg/L	461.89	ppb	18:47:38
1	Ni 231.604†	14149.6	14847.4	442.85	µg/L	442.85	ppb	18:47:18
1	P 214.914†	520.6	604.8	624.41	µg/L	624.41	ppb	18:47:38
1	Pb 220.353†	2353.7	2360.2	507.04	µg/L	507.04	ppb	18:47:38
1	S 181.975 Axial†	2531.3	2625.5	8568.1	µg/L	8568.1	ppb	18:47:38
1	Sb 206.836†	726.9	755.2	477.53	µg/L	477.53	ppb	18:47:38
1	Se 196.026†	322.5	326.4	446	µg/L	446	ppb	18:47:38
1	SiO2†	243596.0	253050.3	46582	µg/L	46582	ppb	18:47:18
1	Si 251.611†	704110.8	736289.7	21667	µg/L	21667	ppb	18:47:16
1	Sn 189.927†	1057.7	1108.5	465.74	µg/L	465.74	ppb	18:47:38
1	Ti 334.940†	237748.4	247168.6	468.17	µg/L	468.17	ppb	18:47:18
1	Tl 190.801†	328.1	359.5	429.44	µg/L	429.44	ppb	18:47:38
1	U 367.007†	2172.7	1958.2	465.97	µg/L	465.97	ppb	18:47:18
1	V 292.402†	64466.1	67087.8	480.67	µg/L	480.67	ppb	18:47:18
1	Zn 213.857†	34565.2	35622.3	448.98	µg/L	448.98	ppb	18:47:18
2	Sc RADIAL	21611.2	21611.2	98.1	%			18:46:36
2	Al 396.153Radial†	3037.9	3186.8	5187.2	µg/L	5187.2	ppb	18:46:36
2	Ca 317.933Radial†	238916.9	243377.0	165690	µg/L	165690	ppb	18:46:16
2	Fe 238.204 Radial†	2061.4	2072.5	7056.8	µg/L	7056.8	ppb	18:46:36
2	K 766.490 Radial†	16248.2	15904.8	19660	µg/L	19660	ppb	18:46:16
2	Mg 279.077 IEC†	14502.0	14773.5	104590	µg/L	104590	ppb	18:46:36
2	Na 589.592 Radial†	146909.0	149735.0	117090	µg/L	117090	ppb	18:46:16
2	Sr 421.552†	232613.1	237002.0	2703.7	µg/L	2703.7	ppb	18:46:16
2	Sc 361.383	1210940.3	1210940.3	96.117	%			18:47:40
2	Y 371.029	692229.9	692229.9	92.900	%			18:47:40
2	Ag 328.068†	74192.2	76520.1	508.44	µg/L	508.44	ppb	18:47:42
2	As 188.979†	235.3	247.3	494.50	µg/L	494.50	ppb	18:48:02
2	B 249.677†	105028.4	109012.5	1285.1	µg/L	1285.1	ppb	18:47:42
2	Ba 233.527†	70373.1	73299.1	1031.6	µg/L	1031.6	ppb	18:47:42
2	Be 313.107†	1129889.2	1182410.3	512.48	µg/L	512.48	ppb	18:47:40
2	Cd 226.502†	29264.0	30555.9	476.40	µg/L	476.40	ppb	18:47:42
2	Co 228.616†	15489.0	16213.2	477.23	µg/L	477.23	ppb	18:47:42
2	Cr 267.716†	23871.1	24715.8	451.51	µg/L	451.51	ppb	18:47:42
2	Cu 324.752†	73705.5	72821.6	489.87	µg/L	489.87	ppb	18:47:42
2	Mn 257.610†	173116.1	179905.4	520.64	µg/L	520.64	ppb	18:47:42
2	Mo 202.031†	3893.0	4059.1	462.31	µg/L	462.31	ppb	18:48:02
2	Ni 231.604†	14167.7	14782.9	440.92	µg/L	440.92	ppb	18:47:42
2	P 214.914†	522.5	603.6	623.18	µg/L	623.18	ppb	18:48:02
2	Pb 220.353†	2336.9	2328.9	500.37	µg/L	500.37	ppb	18:48:02

2	S 181.975 Axial†	2538.0	2617.6	8542.0	µg/L	8542.0	ppb	18:48:02
2	Sb 206.836†	733.0	757.3	478.82	µg/L	478.82	ppb	18:48:02
2	Se 196.026†	329.8	332.0	454	µg/L	454	ppb	18:48:02
2	SiO2†	243633.1	251655.6	46325	µg/L	46325	ppb	18:47:42
2	Si 251.611†	710018.2	738292.6	21726	µg/L	21726	ppb	18:47:40
2	Sn 189.927†	1059.2	1103.9	464.02	µg/L	464.02	ppb	18:48:02
2	Ti 334.940†	237718.4	245738.4	465.64	µg/L	465.64	ppb	18:47:42
2	Tl 190.801†	329.4	358.9	428.72	µg/L	428.72	ppb	18:48:02
2	U 367.007†	2013.1	1779.4	416.48	µg/L	416.48	ppb	18:47:42
2	V 292.402†	64317.2	66553.6	476.88	µg/L	476.88	ppb	18:47:42
2	Zn 213.857†	34620.6	35476.5	447.13	µg/L	447.13	ppb	18:47:42
3	Sc RADIAL	21426.6	21426.6	97.3	%			18:46:58
3	Al 396.153Radial†	3014.6	3189.5	5192.8	µg/L	5192.8	ppb	18:46:58
3	Ca 317.933Radial†	240054.5	246643.1	167910	µg/L	167910	ppb	18:46:38
3	Fe 238.204 Radial†	2052.5	2081.4	7087.4	µg/L	7087.4	ppb	18:46:58
3	K 766.490 Radial†	16203.3	16001.2	19779	µg/L	19779	ppb	18:46:38
3	Mg 279.077 IEC†	14373.4	14768.5	104560	µg/L	104560	ppb	18:46:58
3	Na 589.592 Radial†	146783.5	150895.4	118000	µg/L	118000	ppb	18:46:38
3	Sr 421.552†	233835.1	240299.5	2741.3	µg/L	2741.3	ppb	18:46:38
3	Sc 361.383	1236441.5	1236441.5	98.141	%			18:48:04
3	Y 371.029	707081.7	707081.7	94.893	%			18:48:04
3	Ag 328.068†	74419.1	75159.4	499.25	µg/L	499.25	ppb	18:48:07
3	As 188.979†	230.5	237.4	474.77	µg/L	474.77	ppb	18:48:27
3	B 249.677†	105051.1	106781.9	1258.0	µg/L	1258.0	ppb	18:48:07
3	Ba 233.527†	70504.2	71922.5	1012.2	µg/L	1012.2	ppb	18:48:07
3	Be 313.107†	1157447.7	1186245.8	514.15	µg/L	514.15	ppb	18:48:04
3	Cd 226.502†	29371.5	30037.5	468.29	µg/L	468.29	ppb	18:48:07
3	Co 228.616†	15520.3	15912.7	468.38	µg/L	468.38	ppb	18:48:07
3	Cr 267.716†	23817.4	24148.9	441.12	µg/L	441.12	ppb	18:48:07
3	Cu 324.752†	73743.7	71279.0	479.54	µg/L	479.54	ppb	18:48:07
3	Mn 257.610†	173447.2	176528.1	510.79	µg/L	510.79	ppb	18:48:07
3	Mo 202.031†	3874.0	3956.2	450.69	µg/L	450.69	ppb	18:48:27
3	Ni 231.604†	14241.8	14554.4	434.11	µg/L	434.11	ppb	18:48:07
3	P 214.914†	509.2	578.9	597.16	µg/L	597.16	ppb	18:48:27
3	Pb 220.353†	2358.9	2301.2	494.38	µg/L	494.38	ppb	18:48:27
3	S 181.975 Axial†	2528.9	2553.9	8333.4	µg/L	8333.4	ppb	18:48:27
3	Sb 206.836†	730.6	739.1	467.36	µg/L	467.36	ppb	18:48:27
3	Se 196.026†	328.8	323.9	443	µg/L	443	ppb	18:48:27
3	SiO2†	243811.8	246609.8	45396	µg/L	45396	ppb	18:48:07
3	Si 251.611†	727024.9	740386.0	21788	µg/L	21788	ppb	18:48:04
3	Sn 189.927†	1061.7	1083.7	456.02	µg/L	456.02	ppb	18:48:27
3	Ti 334.940†	238066.8	240992.5	456.91	µg/L	456.91	ppb	18:48:07
3	Tl 190.801†	337.6	360.3	430.43	µg/L	430.43	ppb	18:48:27
3	U 367.007†	2076.1	1800.4	421.73	µg/L	421.73	ppb	18:48:07
3	V 292.402†	64550.0	65410.6	468.68	µg/L	468.68	ppb	18:48:07
3	Zn 213.857†	34577.7	34689.9	437.13	µg/L	437.13	ppb	18:48:07

Mean Data: 1202969097|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1217170.7	96.611	%	1.3520				1.40%
Sc RADIAL	21552.0	97.9	%	0.49				0.50%
Y 371.029	696023.6	93.409	%	1.3062				1.40%
Ag 328.068†	76194.0	506.24	µg/L	6.187	506.24	ppb	6.187	1.22%
Al 396.153Radial†	3193.7	5198.3	µg/L	14.70	5198.3	ppb	14.70	0.28%
As 188.979†	245.5	490.87	µg/L	14.621	490.87	ppb	14.621	2.98%
B 249.677†	108423.4	1278.0	µg/L	17.59	1278.0	ppb	17.59	1.38%
Ba 233.527†	73003.1	1027.4	µg/L	13.61	1027.4	ppb	13.61	1.32%
Be 313.107†	1181884.3	512.26	µg/L	2.014	512.26	ppb	2.014	0.39%
Ca 317.933Radial†	243442.0	165730	µg/L	2157.9	165730	ppb	2157.9	1.30%
Cd 226.502†	30422.0	474.30	µg/L	5.284	474.30	ppb	5.284	1.11%
Co 228.616†	16151.4	475.41	µg/L	6.316	475.41	ppb	6.316	1.33%
Cr 267.716†	24543.2	448.34	µg/L	6.262	448.34	ppb	6.262	1.40%
Cu 324.752†	72444.2	487.35	µg/L	6.905	487.35	ppb	6.905	1.42%
Fe 238.204 Radial†	2073.8	7061.4	µg/L	24.07	7061.4	ppb	24.07	0.34%
K 766.490 Radial†	15862.4	19607	µg/L	203.1	19607	ppb	203.1	1.04%
Mg 279.077 IEC†	14754.4	104460	µg/L	204.0	104460	ppb	204.0	0.20%
Mn 257.610†	179097.3	518.29	µg/L	6.636	518.29	ppb	6.636	1.28%
Mo 202.031†	4023.6	458.30	µg/L	6.592	458.30	ppb	6.592	1.44%
Na 589.592 Radial†	150075.3	117360	µg/L	558.0	117360	ppb	558.0	0.48%

Ni 231.604†	14728.2	439.29	µg/L	4.592	439.29	ppb	4.592	1.05%
P 214.914†	595.8	614.92	µg/L	15.390	614.92	ppb	15.390	2.50%
Pb 220.353†	2330.1	500.60	µg/L	6.333	500.60	ppb	6.333	1.27%
S 181.975 Axial†	2599.0	8481.2	µg/L	128.62	8481.2	ppb	128.62	1.52%
Sb 206.836†	750.6	474.57	µg/L	6.276	474.57	ppb	6.276	1.32%
Se 196.026†	327.4	448	µg/L	5.6	448	ppb	5.6	1.26%
SiO2†	250438.6	46101	µg/L	623.7	46101	ppb	623.7	1.35%
Si 251.611†	738322.7	21727	µg/L	60.4	21727	ppb	60.4	0.28%
Sn 189.927†	1098.7	461.93	µg/L	5.187	461.93	ppb	5.187	1.12%
Sr 421.552†	236858.1	2702.0	µg/L	40.11	2702.0	ppb	40.11	1.48%
Ti 334.940†	244633.2	463.57	µg/L	5.904	463.57	ppb	5.904	1.27%
Tl 190.801†	359.6	429.53	µg/L	0.855	429.53	ppb	0.855	0.20%
U 367.007†	1846.0	434.73	µg/L	27.184	434.73	ppb	27.184	6.25%
V 292.402†	66350.7	475.41	µg/L	6.133	475.41	ppb	6.133	1.29%
Zn 213.857†	35262.9	444.42	µg/L	6.373	444.42	ppb	6.373	1.43%

Sequence No.: 14
Sample ID: 1202969098|1339675|5
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 312
Date Collected: 11/6/2013 18:48:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202969098|1339675|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22501.5	22501.5	102	%			18:49:05
1	Al 396.153Radial†	-98.0	-4.8	8.1179	µg/L	8.1179	ppb	18:49:05
1	Ca 317.933Radial†	48003.7	46898.7	31928	µg/L	31928	ppb	18:49:05
1	Fe 238.204 Radial†	137.8	106.7	364.06	µg/L	364.06	ppb	18:49:25
1	K 766.490 Radial†	2979.6	2263.8	2794.3	µg/L	2794.3	ppb	18:49:05
1	Mg 279.077 IEC†	2873.7	2808.1	19881	µg/L	19881	ppb	18:49:25
1	Na 589.592 Radial†	29912.4	29308.0	22918	µg/L	22918	ppb	18:49:05
1	Sr 421.552†	39313.8	38442.5	438.50	µg/L	438.50	ppb	18:49:05
1	Sc 361.383	1250638.4	1250638.4	99.267	%			18:50:27
1	Y 371.029	725485.2	725485.2	97.363	%			18:50:27
1	Ag 328.068†	692.5	27.9	-0.6861	µg/L	-0.6861	ppb	18:50:27
1	As 188.979†	-3.8	-1.2	-2.3894	µg/L	-2.3894	ppb	18:50:47
1	B 249.677†	13225.4	13063.5	155.44	µg/L	155.44	ppb	18:50:27
1	Ba 233.527†	7834.3	7974.7	112.10	µg/L	112.10	ppb	18:50:47
1	Be 313.107†	-6649.3	170.8	0.0740	µg/L	0.0740	ppb	18:50:27
1	Cd 226.502†	-93.5	15.3	0.1934	µg/L	0.1934	ppb	18:50:47
1	Co 228.616†	-83.9	13.9	0.4661	µg/L	0.4661	ppb	18:50:47
1	Cr 267.716†	197.7	79.4	1.2316	µg/L	1.2316	ppb	18:50:47
1	Cu 324.752†	3746.3	-87.9	-0.4176	µg/L	-0.4176	ppb	18:50:27
1	Mn 257.610†	6039.6	5878.9	16.401	µg/L	16.401	ppb	18:50:47
1	Mo 202.031†	-39.1	-30.5	-2.7422	µg/L	-2.7422	ppb	18:50:47
1	Ni 231.604†	73.8	117.2	3.4944	µg/L	3.4944	ppb	18:50:47
1	P 214.914†	-41.6	18.2	18.831	µg/L	18.831	ppb	18:50:47
1	Pb 220.353†	108.8	7.2	1.4861	µg/L	1.4861	ppb	18:50:47
1	S 181.975 Axial†	265.2	244.3	795.27	µg/L	795.27	ppb	18:50:47
1	Sb 206.836†	5.4	0.1	0.0509	µg/L	0.0509	ppb	18:50:47
1	Se 196.026†	12.8	1.8	2.44	µg/L	2.44	ppb	18:50:47
1	SiO2†	40976.6	39457.7	7262.0	µg/L	7262.0	ppb	18:50:27
1	Si 251.611†	114892.5	115327.2	3394.7	µg/L	3394.7	ppb	18:50:27
1	Sn 189.927†	-25.5	-23.8	-6.8000	µg/L	-6.8000	ppb	18:50:47
1	Ti 334.940†	481.8	-1099.4	-0.4857	µg/L	-0.4857	ppb	18:50:27
1	Tl 190.801†	-12.1	4.1	4.6142	µg/L	4.6142	ppb	18:50:47
1	U 367.007†	468.6	157.0	34.751	µg/L	34.751	ppb	18:50:27
1	V 292.402†	378.3	18.8	0.1761	µg/L	0.1761	ppb	18:50:27
1	Zn 213.857†	811.8	274.9	3.0727	µg/L	3.0727	ppb	18:50:47
2	Sc RADIAL	22178.5	22178.5	101	%			18:49:27
2	Al 396.153Radial†	-93.5	-1.7	13.394	µg/L	13.394	ppb	18:49:27
2	Ca 317.933Radial†	48300.9	47877.9	32595	µg/L	32595	ppb	18:49:27
2	Fe 238.204 Radial†	128.4	99.4	339.07	µg/L	339.07	ppb	18:49:47
2	K 766.490 Radial†	3073.8	2399.8	2962.6	µg/L	2962.6	ppb	18:49:27
2	Mg 279.077 IEC†	2819.7	2795.5	19791	µg/L	19791	ppb	18:49:47
2	Na 589.592 Radial†	29977.6	29799.0	23302	µg/L	23302	ppb	18:49:27
2	Sr 421.552†	39578.6	39265.7	447.89	µg/L	447.89	ppb	18:49:27
2	Sc 361.383	1271193.8	1271193.8	100.90	%			18:50:49
2	Y 371.029	737321.7	737321.7	98.951	%			18:50:49
2	Ag 328.068†	663.6	-12.0	-0.9431	µg/L	-0.9431	ppb	18:50:49
2	As 188.979†	-5.3	-2.7	-5.2947	µg/L	-5.2947	ppb	18:51:09
2	B 249.677†	13388.1	13009.3	154.81	µg/L	154.81	ppb	18:50:49
2	Ba 233.527†	7788.1	7801.3	109.66	µg/L	109.66	ppb	18:51:09
2	Be 313.107†	-6768.6	160.8	0.0697	µg/L	0.0697	ppb	18:50:49
2	Cd 226.502†	-93.9	16.5	0.2152	µg/L	0.2152	ppb	18:51:09
2	Co 228.616†	-96.4	2.9	0.1407	µg/L	0.1407	ppb	18:51:09
2	Cr 267.716†	178.5	57.2	0.8450	µg/L	0.8450	ppb	18:51:09
2	Cu 324.752†	3831.8	-64.2	-0.2774	µg/L	-0.2774	ppb	18:50:49
2	Mn 257.610†	6002.5	5743.8	16.010	µg/L	16.010	ppb	18:51:09
2	Mo 202.031†	-35.8	-26.6	-2.3035	µg/L	-2.3035	ppb	18:51:09
2	Ni 231.604†	99.0	140.9	4.2023	µg/L	4.2023	ppb	18:51:09
2	P 214.914†	-43.4	17.1	17.669	µg/L	17.669	ppb	18:51:09
2	Pb 220.353†	100.6	-2.8	-0.6235	µg/L	-0.6235	ppb	18:51:09

2	S 181.975 Axial†	271.9	246.6	802.78	µg/L	802.78	ppb	18:51:09
2	Sb 206.836†	4.8	-0.6	-0.3906	µg/L	-0.3906	ppb	18:51:09
2	Se 196.026†	14.1	2.8	3.90	µg/L	3.90	ppb	18:51:09
2	SiO2†	41573.3	39381.6	7248.0	µg/L	7248.0	ppb	18:50:49
2	Si 251.611†	116541.0	115089.4	3387.7	µg/L	3387.7	ppb	18:50:49
2	Sn 189.927†	-26.6	-24.5	-7.0378	µg/L	-7.0378	ppb	18:51:09
2	Ti 334.940†	407.3	-1181.1	-0.5865	µg/L	-0.5865	ppb	18:50:49
2	Tl 190.801†	-14.5	1.9	1.9041	µg/L	1.9041	ppb	18:51:09
2	U 367.007†	365.8	47.5	4.7367	µg/L	4.7367	ppb	18:50:49
2	V 292.402†	366.3	0.7	0.0320	µg/L	0.0320	ppb	18:50:49
2	Zn 213.857†	815.4	265.2	2.9493	µg/L	2.9493	ppb	18:51:09
3	Sc RADIAL	22365.3	22365.3	102	%			18:49:49
3	Al 396.153Radial†	-88.5	4.0	22.031	µg/L	22.031	ppb	18:49:49
3	Ca 317.933Radial†	47214.7	46407.8	31594	µg/L	31594	ppb	18:49:49
3	Fe 238.204 Radial†	131.4	101.2	345.34	µg/L	345.34	ppb	18:50:09
3	K 766.490 Radial†	3144.4	2443.8	3017.4	µg/L	3017.4	ppb	18:49:49
3	Mg 279.077 IEC†	2865.4	2817.1	19944	µg/L	19944	ppb	18:50:09
3	Na 589.592 Radial†	29077.8	28664.5	22415	µg/L	22415	ppb	18:49:49
3	Sr 421.552†	38812.5	38183.2	435.54	µg/L	435.54	ppb	18:49:49
3	Sc 361.383	1279718.8	1279718.8	101.58	%			18:51:12
3	Y 371.029	741575.1	741575.1	99.522	%			18:51:12
3	Ag 328.068†	557.7	-120.7	-1.6571	µg/L	-1.6571	ppb	18:51:12
3	As 188.979†	0.3	2.8	5.6127	µg/L	5.6127	ppb	18:51:32
3	B 249.677†	13396.2	12928.9	153.79	µg/L	153.79	ppb	18:51:12
3	Ba 233.527†	7890.3	7850.4	110.35	µg/L	110.35	ppb	18:51:32
3	Be 313.107†	-6909.2	67.1	0.0291	µg/L	0.0291	ppb	18:51:12
3	Cd 226.502†	-111.0	0.2	-0.0399	µg/L	-0.0399	ppb	18:51:32
3	Co 228.616†	-98.3	1.6	0.1026	µg/L	0.1026	ppb	18:51:32
3	Cr 267.716†	178.0	55.6	0.8026	µg/L	0.8026	ppb	18:51:32
3	Cu 324.752†	3666.5	-252.3	-1.5280	µg/L	-1.5280	ppb	18:51:12
3	Mn 257.610†	6063.3	5764.0	16.064	µg/L	16.064	ppb	18:51:32
3	Mo 202.031†	-42.6	-33.1	-3.0352	µg/L	-3.0352	ppb	18:51:32
3	Ni 231.604†	80.5	122.1	3.6395	µg/L	3.6395	ppb	18:51:32
3	P 214.914†	-49.1	11.7	11.961	µg/L	11.961	ppb	18:51:32
3	Pb 220.353†	103.2	-0.8	-0.2239	µg/L	-0.2239	ppb	18:51:32
3	S 181.975 Axial†	265.6	238.6	776.75	µg/L	776.75	ppb	18:51:32
3	Sb 206.836†	5.0	-0.4	-0.2968	µg/L	-0.2968	ppb	18:51:32
3	Se 196.026†	18.3	6.9	9.40	µg/L	9.40	ppb	18:51:32
3	SiO2†	42052.2	39578.6	7284.3	µg/L	7284.3	ppb	18:51:12
3	Si 251.611†	117553.0	115316.4	3394.4	µg/L	3394.4	ppb	18:51:12
3	Sn 189.927†	-27.4	-25.2	-7.3814	µg/L	-7.3814	ppb	18:51:32
3	Ti 334.940†	392.5	-1198.3	-0.6807	µg/L	-0.6807	ppb	18:51:12
3	Tl 190.801†	-9.7	6.7	7.7616	µg/L	7.7616	ppb	18:51:32
3	U 367.007†	428.1	106.5	21.049	µg/L	21.049	ppb	18:51:12
3	V 292.402†	451.4	82.2	0.6074	µg/L	0.6074	ppb	18:51:12
3	Zn 213.857†	808.5	253.0	2.7945	µg/L	2.7945	ppb	18:51:32

Mean Data: 1202969098|1339675|5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1267183.7	100.58	%	1.187				1.18%
Sc RADIAL	22348.4	101	%	0.7				0.73%
Y 371.029	734794.0	98.612	%	1.1189				1.13%
Ag 328.068†	-34.9	-1.0954	µg/L	0.50311	-1.0954	ppb	0.50311	45.93%
Al 396.153Radial†	-0.8	14.514	µg/L	7.0236	14.514	ppb	7.0236	48.39%
As 188.979†	-0.4	-0.6905	µg/L	5.64867	-0.6905	ppb	5.64867	818.08%
B 249.677†	13000.6	154.68	µg/L	0.832	154.68	ppb	0.832	0.54%
Ba 233.527†	7875.5	110.70	µg/L	1.256	110.70	ppb	1.256	1.13%
Be 313.107†	132.9	0.0576	µg/L	0.02479	0.0576	ppb	0.02479	43.03%
Ca 317.933Radial†	47061.5	32039	µg/L	509.6	32039	ppb	509.6	1.59%
Cd 226.502†	10.6	0.1229	µg/L	0.14140	0.1229	ppb	0.14140	115.05%
Co 228.616†	6.1	0.2364	µg/L	0.19980	0.2364	ppb	0.19980	84.50%
Cr 267.716†	64.1	0.9598	µg/L	0.23639	0.9598	ppb	0.23639	24.63%
Cu 324.752†	-134.8	-0.7410	µg/L	0.68513	-0.7410	ppb	0.68513	92.46%
Fe 238.204 Radial†	102.4	349.49	µg/L	13.003	349.49	ppb	13.003	3.72%
K 766.490 Radial†	2369.1	2924.8	µg/L	116.28	2924.8	ppb	116.28	3.98%
Mg 279.077 IEC†	2806.9	19872	µg/L	77.0	19872	ppb	77.0	0.39%
Mn 257.610†	5795.6	16.158	µg/L	0.2121	16.158	ppb	0.2121	1.31%
Mo 202.031†	-30.1	-2.6936	µg/L	0.36827	-2.6936	ppb	0.36827	13.67%
Na 589.592 Radial†	29257.2	22879	µg/L	444.9	22879	ppb	444.9	1.94%

Ni 231.604†	126.7	3.7787	µg/L	0.37393	3.7787	ppb	0.37393	9.90%
P 214.914†	15.6	16.154	µg/L	3.6769	16.154	ppb	3.6769	22.76%
Pb 220.353†	1.2	0.2129	µg/L	1.12060	0.2129	ppb	1.12060	526.39%
S 181.975 Axial†	243.2	791.60	µg/L	13.399	791.60	ppb	13.399	1.69%
Sb 206.836†	-0.3	-0.2122	µg/L	0.23259	-0.2122	ppb	0.23259	109.61%
Se 196.026†	3.8	5.25	µg/L	3.667	5.25	ppb	3.667	69.89%
SiO2†	39472.6	7264.8	µg/L	18.28	7264.8	ppb	18.28	0.25%
Si 251.611†	115244.3	3392.3	µg/L	3.96	3392.3	ppb	3.96	0.12%
Sn 189.927†	-24.5	-7.0731	µg/L	0.29230	-7.0731	ppb	0.29230	4.13%
Sr 421.552†	38630.5	440.65	µg/L	6.447	440.65	ppb	6.447	1.46%
Ti 334.940†	-1159.6	-0.5843	µg/L	0.09754	-0.5843	ppb	0.09754	16.69%
Tl 190.801†	4.2	4.7600	µg/L	2.93146	4.7600	ppb	2.93146	61.59%
U 367.007†	103.7	20.179	µg/L	15.0259	20.179	ppb	15.0259	74.46%
V 292.402†	33.9	0.2718	µg/L	0.29939	0.2718	ppb	0.29939	110.15%
Zn 213.857†	264.4	2.9388	µg/L	0.13940	2.9388	ppb	0.13940	4.74%

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Sequence No.: 15 **Autosampler Location: 313**
Sample ID: 335304012|1339675|1 **Date Collected: 11/6/2013 18:51:40**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304012|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22249.1	22249.1	101	%			18:52:10
1	Al 396.153Radial†	-121.7	-29.3	32.396	µg/L	32.396	ppb	18:52:30
1	Ca 317.933Radial†	238603.1	236085.9	160730	µg/L	160730	ppb	18:52:10
1	Fe 238.204 Radial†	358.0	326.3	1113.2	µg/L	1113.2	ppb	18:52:30
1	K 766.490 Radial†	12281.0	11503.3	14203	µg/L	14203	ppb	18:52:10
1	Mg 279.077 IEC†	13943.7	13797.1	97678	µg/L	97678	ppb	18:52:10
1	Na 589.592 Radial†	137986.3	136611.0	106830	µg/L	106830	ppb	18:52:10
1	Sr 421.552†	190332.4	188356.4	2148.5	µg/L	2148.5	ppb	18:52:10
1	Sc 361.383	1223317.6	1223317.6	97.099	%			18:53:32
1	Y 371.029	703139.0	703139.0	94.364	%			18:53:32
1	Ag 328.068†	1370.9	742.1	0.7356	µg/L	0.7356	ppb	18:53:32
1	As 188.979†	-1.1	1.4	2.9445	µg/L	2.9445	ppb	18:53:52
1	B 249.677†	61657.2	63239.9	754.63	µg/L	754.63	ppb	18:53:32
1	Ba 233.527†	36948.0	38134.5	536.06	µg/L	536.06	ppb	18:53:32
1	Be 313.107†	-6932.7	-270.7	-0.1173	µg/L	-0.1173	ppb	18:53:32
1	Cd 226.502†	-102.5	4.0	-0.0755	µg/L	-0.0755	ppb	18:53:52
1	Co 228.616†	-45.3	51.7	1.8010	µg/L	1.8010	ppb	18:53:52
1	Cr 267.716†	305.2	194.6	2.5533	µg/L	2.5533	ppb	18:53:52
1	Cu 324.752†	2756.7	-1022.8	-6.1856	µg/L	-6.1856	ppb	18:53:32
1	Mn 257.610†	23696.7	24199.4	66.913	µg/L	66.913	ppb	18:53:32
1	Mo 202.031†	-91.1	-85.0	-6.1451	µg/L	-6.1451	ppb	18:53:52
1	Ni 231.604†	370.8	424.7	12.661	µg/L	12.661	ppb	18:53:52
1	P 214.914†	13.9	74.4	77.574	µg/L	77.574	ppb	18:53:52
1	Pb 220.353†	149.7	51.8	10.994	µg/L	10.994	ppb	18:53:52
1	S 181.975 Axial†	1243.1	1257.3	4094.2	µg/L	4094.2	ppb	18:53:52
1	Sb 206.836†	7.2	2.1	1.2231	µg/L	1.2231	ppb	18:53:52
1	Se 196.026†	10.3	-0.4	-0.691	µg/L	-0.691	ppb	18:53:52
1	SiO2†	193976.2	197950.4	36432	µg/L	36432	ppb	18:53:32
1	Si 251.611†	562814.5	579216.8	17049	µg/L	17049	ppb	18:53:32
1	Sn 189.927†	-65.9	-66.0	-12.327	µg/L	-12.327	ppb	18:53:52
1	Ti 334.940†	-2758.6	-4425.8	-0.2797	µg/L	-0.2797	ppb	18:53:32
1	Tl 190.801†	-9.2	6.8	6.4636	µg/L	6.4636	ppb	18:53:52
1	U 367.007†	485.4	184.9	12.668	µg/L	12.668	ppb	18:53:32
1	V 292.402†	806.7	468.5	3.4004	µg/L	3.4004	ppb	18:53:32
1	Zn 213.857†	1056.3	544.9	4.9204	µg/L	4.9204	ppb	18:53:52
2	Sc RADIAL	21778.2	21778.2	98.9	%			18:52:32
2	Al 396.153Radial†	-136.8	-47.2	5.6793	µg/L	5.6793	ppb	18:52:52
2	Ca 317.933Radial†	239473.7	242072.6	164800	µg/L	164800	ppb	18:52:32
2	Fe 238.204 Radial†	360.6	336.5	1148.0	µg/L	1148.0	ppb	18:52:52
2	K 766.490 Radial†	12293.0	11778.3	14542	µg/L	14542	ppb	18:52:32
2	Mg 279.077 IEC†	14064.1	14217.2	100650	µg/L	100650	ppb	18:52:32
2	Na 589.592 Radial†	138657.8	140243.1	109670	µg/L	109670	ppb	18:52:32
2	Sr 421.552†	191646.2	193758.3	2210.1	µg/L	2210.1	ppb	18:52:32
2	Sc 361.383	1236061.4	1236061.4	98.110	%			18:53:54
2	Y 371.029	709745.4	709745.4	95.250	%			18:53:54
2	Ag 328.068†	1095.6	447.0	-1.3539	µg/L	-1.3539	ppb	18:53:54
2	As 188.979†	-0.6	1.9	3.8819	µg/L	3.8819	ppb	18:54:14
2	B 249.677†	62428.1	63371.0	755.95	µg/L	755.95	ppb	18:53:54
2	Ba 233.527†	37476.4	38280.7	538.12	µg/L	538.12	ppb	18:53:54
2	Be 313.107†	-6904.5	-168.3	-0.0730	µg/L	-0.0730	ppb	18:53:54
2	Cd 226.502†	-84.7	23.1	0.2182	µg/L	0.2182	ppb	18:54:14
2	Co 228.616†	-51.2	46.2	1.6407	µg/L	1.6407	ppb	18:54:14
2	Cr 267.716†	286.7	172.5	2.1120	µg/L	2.1120	ppb	18:54:14
2	Cu 324.752†	2844.7	-962.4	-5.7555	µg/L	-5.7555	ppb	18:53:54
2	Mn 257.610†	24128.9	24388.4	67.353	µg/L	67.353	ppb	18:53:54
2	Mo 202.031†	-90.3	-83.2	-5.8394	µg/L	-5.8394	ppb	18:54:14
2	Ni 231.604†	338.2	387.6	11.555	µg/L	11.555	ppb	18:54:14
2	P 214.914†	5.3	65.5	68.020	µg/L	68.020	ppb	18:54:14
2	Pb 220.353†	127.5	27.5	5.7878	µg/L	5.7878	ppb	18:54:14

2	S 181.975 Axial†	1244.4	1245.5	4054.9	µg/L	4054.9	ppb	18:54:14
2	Sb 206.836†	6.4	1.2	0.6347	µg/L	0.6347	ppb	18:54:14
2	Se 196.026†	22.4	11.7	15.9	µg/L	15.9	ppb	18:54:14
2	SiO2†	196408.6	198370.1	36509	µg/L	36509	ppb	18:53:54
2	Si 251.611†	569763.7	580323.8	17082	µg/L	17082	ppb	18:53:54
2	Sn 189.927†	-66.1	-65.5	-11.765	µg/L	-11.765	ppb	18:54:14
2	Ti 334.940†	-3071.3	-4715.2	-0.6252	µg/L	-0.6252	ppb	18:53:54
2	Tl 190.801†	-13.8	2.2	0.8873	µg/L	0.8873	ppb	18:54:14
2	U 367.007†	536.1	231.3	24.396	µg/L	24.396	ppb	18:53:54
2	V 292.402†	854.2	508.3	3.6958	µg/L	3.6958	ppb	18:53:54
2	Zn 213.857†	1079.2	557.1	5.0215	µg/L	5.0215	ppb	18:54:14
3	Sc RADIAL	21850.9	21850.9	99.2	%			18:52:54
3	Al 396.153Radial†	-130.1	-39.9	17.449	µg/L	17.449	ppb	18:53:14
3	Ca 317.933Radial†	240611.8	242414.9	165040	µg/L	165040	ppb	18:52:54
3	Fe 238.204 Radial†	360.0	334.7	1142.1	µg/L	1142.1	ppb	18:53:14
3	K 766.490 Radial†	12283.0	11726.9	14479	µg/L	14479	ppb	18:52:54
3	Mg 279.077 IEC†	14148.0	14254.6	100920	µg/L	100920	ppb	18:52:54
3	Na 589.592 Radial†	138805.3	139925.8	109420	µg/L	109420	ppb	18:52:54
3	Sr 421.552†	192704.8	194181.1	2214.9	µg/L	2214.9	ppb	18:52:54
3	Sc 361.383	1239045.5	1239045.5	98.347	%			18:54:16
3	Y 371.029	711495.5	711495.5	95.485	%			18:54:16
3	Ag 328.068†	1141.4	490.9	-1.0592	µg/L	-1.0592	ppb	18:54:16
3	As 188.979†	-3.9	-1.4	-2.5555	µg/L	-2.5555	ppb	18:54:37
3	B 249.677†	62556.6	63348.4	755.72	µg/L	755.72	ppb	18:54:16
3	Ba 233.527†	37328.7	38038.5	534.71	µg/L	534.71	ppb	18:54:16
3	Be 313.107†	-6895.6	-142.3	-0.0617	µg/L	-0.0617	ppb	18:54:16
3	Cd 226.502†	-101.8	6.0	-0.0472	µg/L	-0.0472	ppb	18:54:37
3	Co 228.616†	-66.4	30.9	1.1870	µg/L	1.1870	ppb	18:54:37
3	Cr 267.716†	267.7	152.5	1.7474	µg/L	1.7474	ppb	18:54:37
3	Cu 324.752†	2819.1	-995.3	-5.9792	µg/L	-5.9792	ppb	18:54:16
3	Mn 257.610†	24051.0	24249.9	66.940	µg/L	66.940	ppb	18:54:16
3	Mo 202.031†	-97.5	-90.3	-6.6268	µg/L	-6.6268	ppb	18:54:37
3	Ni 231.604†	371.9	421.0	12.553	µg/L	12.553	ppb	18:54:37
3	P 214.914†	4.2	64.3	66.836	µg/L	66.836	ppb	18:54:37
3	Pb 220.353†	131.7	31.4	6.6297	µg/L	6.6297	ppb	18:54:37
3	S 181.975 Axial†	1243.3	1241.3	4041.1	µg/L	4041.1	ppb	18:54:37
3	Sb 206.836†	2.3	-3.0	-1.9871	µg/L	-1.9871	ppb	18:54:37
3	Se 196.026†	17.0	6.1	8.27	µg/L	8.27	ppb	18:54:37
3	SiO2†	195994.0	197466.3	36343	µg/L	36343	ppb	18:54:16
3	Si 251.611†	569457.4	578613.7	17032	µg/L	17032	ppb	18:54:16
3	Sn 189.927†	-72.7	-72.1	-14.427	µg/L	-14.427	ppb	18:54:37
3	Ti 334.940†	-2975.5	-4610.3	-0.4152	µg/L	-0.4152	ppb	18:54:16
3	Tl 190.801†	-9.9	6.2	5.7084	µg/L	5.7084	ppb	18:54:37
3	U 367.007†	512.6	206.2	17.470	µg/L	17.470	ppb	18:54:16
3	V 292.402†	925.6	578.8	4.1775	µg/L	4.1775	ppb	18:54:16
3	Zn 213.857†	1077.2	552.4	4.9515	µg/L	4.9515	ppb	18:54:37

Mean Data: 335304012|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1232808.2	97.852	%	0.6630				0.68%
Sc RADIAL	21959.4	99.7	%	1.15				1.15%
Y 371.029	708126.6	95.033	%	0.5915				0.62%
Ag 328.068†	560.0	-0.5591	µg/L	1.13095	-0.5591	ppb	1.13095	202.27%
Al 396.153Radial†	-38.8	18.508	µg/L	13.3896	18.508	ppb	13.3896	72.34%
As 188.979†	0.6	1.4236	µg/L	3.47775	1.4236	ppb	3.47775	244.29%
B 249.677†	63319.7	755.43	µg/L	0.703	755.43	ppb	0.703	0.09%
Ba 233.527†	38151.2	536.30	µg/L	1.714	536.30	ppb	1.714	0.32%
Be 313.107†	-193.8	-0.0840	µg/L	0.02942	-0.0840	ppb	0.02942	35.02%
Ca 317.933Radial†	240191.1	163520	µg/L	2423.1	163520	ppb	2423.1	1.48%
Cd 226.502†	11.0	0.0318	µg/L	0.16201	0.0318	ppb	0.16201	509.17%
Co 228.616†	42.9	1.5429	µg/L	0.31844	1.5429	ppb	0.31844	20.64%
Cr 267.716†	173.2	2.1376	µg/L	0.40358	2.1376	ppb	0.40358	18.88%
Cu 324.752†	-993.5	-5.9734	µg/L	0.21515	-5.9734	ppb	0.21515	3.60%
Fe 238.204 Radial†	332.5	1134.4	µg/L	18.64	1134.4	ppb	18.64	1.64%
K 766.490 Radial†	11669.5	14408	µg/L	180.4	14408	ppb	180.4	1.25%
Mg 279.077 IEC†	14089.6	99749	µg/L	1798.3	99749	ppb	1798.3	1.80%
Mn 257.610†	24279.2	67.069	µg/L	0.2470	67.069	ppb	0.2470	0.37%
Mo 202.031†	-86.2	-6.2038	µg/L	0.39700	-6.2038	ppb	0.39700	6.40%
Na 589.592 Radial†	138926.6	108640	µg/L	1573.1	108640	ppb	1573.1	1.45%

Ni 231.604†	411.1	12.256	µg/L	0.6101	12.256	ppb	0.6101	4.98%
P 214.914†	68.1	70.810	µg/L	5.8878	70.810	ppb	5.8878	8.31%
Pb 220.353†	36.9	7.8040	µg/L	2.79493	7.8040	ppb	2.79493	35.81%
S 181.975 Axial†	1248.0	4063.4	µg/L	27.52	4063.4	ppb	27.52	0.68%
Sb 206.836†	0.1	-0.0431	µg/L	1.70906	-0.0431	ppb	1.70906	>999.9%
Se 196.026†	5.8	7.83	µg/L	8.310	7.83	ppb	8.310	106.13%
SiO2†	197928.9	36428	µg/L	83.2	36428	ppb	83.2	0.23%
Si 251.611†	579384.8	17054	µg/L	25.5	17054	ppb	25.5	0.15%
Sn 189.927†	-67.9	-12.840	µg/L	1.4030	-12.840	ppb	1.4030	10.93%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	192098.6	2191.2	µg/L	37.05	2191.2	ppb	37.05	1.69%
Ti 334.940†	-4583.7	-0.4400	µg/L	0.17412	-0.4400	ppb	0.17412	39.57%
Tl 190.801†	5.1	4.3531	µg/L	3.02513	4.3531	ppb	3.02513	69.49%
U 367.007†	207.5	18.178	µg/L	5.8959	18.178	ppb	5.8959	32.43%
V 292.402†	518.6	3.7579	µg/L	0.39227	3.7579	ppb	0.39227	10.44%
Zn 213.857†	551.5	4.9644	µg/L	0.05176	4.9644	ppb	0.05176	1.04%

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Sequence No.: 16 **Autosampler Location: 314**
Sample ID: 335304013|1339675|1 **Date Collected: 11/6/2013 18:54:45**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304013|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22445.1	22445.1	102	%			18:55:17
1	Al 396.153Radial†	-28.2	63.5	158.26	µg/L	158.26	ppb	18:55:17
1	Ca 317.933Radial†	165995.7	162785.2	110830	µg/L	110830	ppb	18:55:15
1	Fe 238.204 Radial†	4982.4	4860.3	16584	µg/L	16584	ppb	18:55:17
1	K 766.490 Radial†	37190.2	35837.0	44371	µg/L	44371	ppb	18:55:15
1	Mg 279.077 IEC†	6392.4	6267.6	44375	µg/L	44375	ppb	18:55:17
1	Na 589.592 Radial†	79957.7	78483.7	61373	µg/L	61373	ppb	18:55:15
1	Sr 421.552†	60393.2	59221.4	675.04	µg/L	675.04	ppb	18:55:15
1	Sc 361.383	1254553.2	1254553.2	99.578	%			18:55:43
1	Y 371.029	722242.2	722242.2	96.927	%			18:55:43
1	Ag 328.068†	1057.0	391.8	-0.5276	µg/L	-0.5276	ppb	18:55:43
1	As 188.979†	-7.1	-4.6	-6.1946	µg/L	-6.1946	ppb	18:56:03
1	B 249.677†	63448.8	63458.0	686.74	µg/L	686.74	ppb	18:55:43
1	Ba 233.527†	121579.8	122177.4	1717.3	µg/L	1717.3	ppb	18:55:43
1	Be 313.107†	-7219.3	-380.8	-0.1650	µg/L	-0.1650	ppb	18:55:43
1	Cd 226.502†	14.0	123.6	-0.2373	µg/L	-0.2373	ppb	18:56:03
1	Co 228.616†	-102.8	-4.9	0.6183	µg/L	0.6183	ppb	18:56:03
1	Cr 267.716†	197.6	78.8	1.3693	µg/L	1.3693	ppb	18:56:03
1	Cu 324.752†	2934.1	-915.3	-3.5233	µg/L	-3.5233	ppb	18:55:43
1	Mn 257.610†	142050.3	142446.7	413.92	µg/L	413.92	ppb	18:55:43
1	Mo 202.031†	-55.0	-46.4	-3.3965	µg/L	-3.3965	ppb	18:56:03
1	Ni 231.604†	101.8	145.1	4.2402	µg/L	4.2402	ppb	18:56:03
1	P 214.914†	530.8	593.1	607.13	µg/L	607.13	ppb	18:56:03
1	Pb 220.353†	141.1	39.2	7.9233	µg/L	7.9233	ppb	18:56:03
1	S 181.975 Axial†	567.5	547.0	1775.4	µg/L	1775.4	ppb	18:56:03
1	Sb 206.836†	4.3	-1.0	-0.2321	µg/L	-0.2321	ppb	18:56:03
1	Se 196.026†	10.5	-0.5	5.06	µg/L	5.06	ppb	18:56:03
1	SiO2†	189216.0	188196.2	34637	µg/L	34637	ppb	18:55:43
1	Si 251.611†	548348.5	550258.0	16199	µg/L	16199	ppb	18:55:43
1	Sn 189.927†	-58.0	-56.4	-12.896	µg/L	-12.896	ppb	18:56:03
1	Ti 334.940†	-816.4	-2404.6	1.0836	µg/L	1.0836	ppb	18:55:43
1	Tl 190.801†	-13.7	2.5	0.8085	µg/L	0.8085	ppb	18:56:03
1	U 367.007†	820.5	509.0	33.938	µg/L	33.938	ppb	18:55:43
1	V 292.402†	169.8	-191.8	1.2044	µg/L	1.2044	ppb	18:55:43
1	Zn 213.857†	1580.1	1043.9	10.803	µg/L	10.803	ppb	18:56:03
2	Sc RADIAL	22415.6	22415.6	102	%			18:55:21
2	Al 396.153Radial†	-40.3	51.5	140.09	µg/L	140.09	ppb	18:55:21
2	Ca 317.933Radial†	168717.4	165673.2	112800	µg/L	112800	ppb	18:55:19
2	Fe 238.204 Radial†	5044.3	4927.6	16814	µg/L	16814	ppb	18:55:21
2	K 766.490 Radial†	37664.3	36350.7	45006	µg/L	45006	ppb	18:55:19
2	Mg 279.077 IEC†	6386.2	6269.8	44390	µg/L	44390	ppb	18:55:21
2	Na 589.592 Radial†	81072.5	79682.1	62310	µg/L	62310	ppb	18:55:19
2	Sr 421.552†	61569.9	60455.3	689.11	µg/L	689.11	ppb	18:55:19
2	Sc 361.383	1240643.3	1240643.3	98.474	%			18:56:05
2	Y 371.029	714558.4	714558.4	95.896	%			18:56:05
2	Ag 328.068†	1066.5	413.3	-0.4358	µg/L	-0.4358	ppb	18:56:05
2	As 188.979†	-1.3	1.2	5.3021	µg/L	5.3021	ppb	18:56:25
2	B 249.677†	62809.7	63523.5	686.41	µg/L	686.41	ppb	18:56:05
2	Ba 233.527†	119888.2	121828.4	1712.4	µg/L	1712.4	ppb	18:56:05
2	Be 313.107†	-6989.9	-229.1	-0.0993	µg/L	-0.0993	ppb	18:56:05
2	Cd 226.502†	49.2	159.5	0.2931	µg/L	0.2931	ppb	18:56:25
2	Co 228.616†	-101.1	-4.3	0.6284	µg/L	0.6284	ppb	18:56:25
2	Cr 267.716†	222.0	105.8	1.8740	µg/L	1.8740	ppb	18:56:25
2	Cu 324.752†	2948.1	-868.0	-3.1739	µg/L	-3.1739	ppb	18:56:05
2	Mn 257.610†	140202.3	142169.5	413.12	µg/L	413.12	ppb	18:56:05
2	Mo 202.031†	-70.5	-62.8	-5.2373	µg/L	-5.2373	ppb	18:56:25
2	Ni 231.604†	81.5	125.6	3.6580	µg/L	3.6580	ppb	18:56:25
2	P 214.914†	530.4	598.6	612.68	µg/L	612.68	ppb	18:56:25
2	Pb 220.353†	106.3	5.5	0.6799	µg/L	0.6799	ppb	18:56:25

2	S 181.975 Axial†	559.0	544.7	1767.8	µg/L	1767.8	ppb	18:56:25
2	Sb 206.836†	7.7	2.5	1.9632	µg/L	1.9632	ppb	18:56:25
2	Se 196.026†	12.4	1.5	7.94	µg/L	7.94	ppb	18:56:25
2	SiO2†	186958.3	188034.0	34607	µg/L	34607	ppb	18:56:05
2	Si 251.611†	542380.7	550371.8	16202	µg/L	16202	ppb	18:56:05
2	Sn 189.927†	-58.2	-57.3	-13.075	µg/L	-13.075	ppb	18:56:25
2	Ti 334.940†	-890.0	-2488.5	1.0322	µg/L	1.0322	ppb	18:56:05
2	Tl 190.801†	-9.8	6.3	5.4576	µg/L	5.4576	ppb	18:56:25
2	U 367.007†	805.1	502.6	30.680	µg/L	30.680	ppb	18:56:05
2	V 292.402†	198.6	-160.6	1.4371	µg/L	1.4371	ppb	18:56:05
2	Zn 213.857†	1580.5	1062.0	11.015	µg/L	11.015	ppb	18:56:25
3	Sc RADIAL	22266.3	22266.3	101	%			18:55:25
3	Al 396.153Radial†	-0.0	91.2	204.97	µg/L	204.97	ppb	18:55:25
3	Ca 317.933Radial†	171535.3	169571.7	115450	µg/L	115450	ppb	18:55:23
3	Fe 238.204 Radial†	5031.8	4948.5	16885	µg/L	16885	ppb	18:55:25
3	K 766.490 Radial†	38138.4	37067.8	45894	µg/L	45894	ppb	18:55:23
3	Mg 279.077 IEC†	6440.5	6365.6	45069	µg/L	45069	ppb	18:55:25
3	Na 589.592 Radial†	81630.0	80767.6	63159	µg/L	63159	ppb	18:55:23
3	Sr 421.552†	62175.6	61460.1	700.55	µg/L	700.55	ppb	18:55:23
3	Sc 361.383	1258947.4	1258947.4	99.927	%			18:56:27
3	Y 371.029	724496.5	724496.5	97.230	%			18:56:27
3	Ag 328.068†	1081.6	412.7	-0.5160	µg/L	-0.5160	ppb	18:56:27
3	As 188.979†	-0.5	2.0	6.8227	µg/L	6.8227	ppb	18:56:47
3	B 249.677†	64016.0	63803.3	689.17	µg/L	689.17	ppb	18:56:27
3	Ba 233.527†	122162.8	122334.6	1719.5	µg/L	1719.5	ppb	18:56:27
3	Be 313.107†	-7055.8	-191.8	-0.0831	µg/L	-0.0831	ppb	18:56:27
3	Cd 226.502†	4.0	113.5	-0.4344	µg/L	-0.4344	ppb	18:56:47
3	Co 228.616†	-74.2	24.2	1.4683	µg/L	1.4683	ppb	18:56:47
3	Cr 267.716†	191.9	72.4	1.2551	µg/L	1.2551	ppb	18:56:47
3	Cu 324.752†	2978.9	-880.8	-3.2442	µg/L	-3.2442	ppb	18:56:27
3	Mn 257.610†	142822.7	142721.8	414.70	µg/L	414.70	ppb	18:56:27
3	Mo 202.031†	-71.2	-62.4	-5.1759	µg/L	-5.1759	ppb	18:56:47
3	Ni 231.604†	64.9	107.8	3.1256	µg/L	3.1256	ppb	18:56:47
3	P 214.914†	532.5	593.0	606.59	µg/L	606.59	ppb	18:56:47
3	Pb 220.353†	123.8	21.4	4.1025	µg/L	4.1025	ppb	18:56:47
3	S 181.975 Axial†	550.5	527.9	1712.5	µg/L	1712.5	ppb	18:56:47
3	Sb 206.836†	6.0	0.7	0.8585	µg/L	0.8585	ppb	18:56:47
3	Se 196.026†	11.5	0.4	6.40	µg/L	6.40	ppb	18:56:47
3	SiO2†	190205.2	188522.9	34697	µg/L	34697	ppb	18:56:27
3	Si 251.611†	550596.7	550585.8	16208	µg/L	16208	ppb	18:56:27
3	Sn 189.927†	-62.1	-60.3	-14.065	µg/L	-14.065	ppb	18:56:47
3	Ti 334.940†	-676.3	-2261.6	1.5908	µg/L	1.5908	ppb	18:56:27
3	Tl 190.801†	-16.0	0.2	-1.9768	µg/L	-1.9768	ppb	18:56:47
3	U 367.007†	827.8	513.3	32.775	µg/L	32.775	ppb	18:56:27
3	V 292.402†	1.9	-360.4	0.0400	µg/L	0.0400	ppb	18:56:27
3	Zn 213.857†	1583.5	1041.8	10.740	µg/L	10.740	ppb	18:56:47

Mean Data: 335304013|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1251381.3	99.326	%	0.7584				0.76%
Sc RADIAL	22375.6	102	%	0.4				0.43%
Y 371.029	720432.3	96.685	%	0.6993				0.72%
Ag 328.068†	405.9	-0.4931	µg/L	0.05002	-0.4931	ppb	0.05002	10.14%
Al 396.153Radial†	68.7	167.77	µg/L	33.472	167.77	ppb	33.472	19.95%
As 188.979†	-0.4	1.9767	µg/L	7.11728	1.9767	ppb	7.11728	360.05%
B 249.677†	63595.0	687.44	µg/L	1.506	687.44	ppb	1.506	0.22%
Ba 233.527†	122113.5	1716.4	µg/L	3.64	1716.4	ppb	3.64	0.21%
Be 313.107†	-267.2	-0.1158	µg/L	0.04338	-0.1158	ppb	0.04338	37.45%
Ca 317.933Radial†	166010.0	113030	µg/L	2318.9	113030	ppb	2318.9	2.05%
Cd 226.502†	132.2	-0.1262	µg/L	0.37624	-0.1262	ppb	0.37624	298.12%
Co 228.616†	5.0	0.9050	µg/L	0.48788	0.9050	ppb	0.48788	53.91%
Cr 267.716†	85.6	1.4995	µg/L	0.32933	1.4995	ppb	0.32933	21.96%
Cu 324.752†	-888.0	-3.3138	µg/L	0.18480	-3.3138	ppb	0.18480	5.58%
Fe 238.204 Radial†	4912.2	16761	µg/L	157.2	16761	ppb	157.2	0.94%
K 766.490 Radial†	36418.5	45090	µg/L	765.2	45090	ppb	765.2	1.70%
Mg 279.077 IEC†	6301.0	44611	µg/L	396.2	44611	ppb	396.2	0.89%
Mn 257.610†	142446.0	413.91	µg/L	0.793	413.91	ppb	0.793	0.19%
Mo 202.031†	-57.2	-4.6032	µg/L	1.04550	-4.6032	ppb	1.04550	22.71%
Na 589.592 Radial†	79644.5	62281	µg/L	893.4	62281	ppb	893.4	1.43%

Ni 231.604†	126.1	3.6746	µg/L	0.55750	3.6746	ppb	0.55750	15.17%
P 214.914†	594.9	608.80	µg/L	3.366	608.80	ppb	3.366	0.55%
Pb 220.353†	22.0	4.2353	µg/L	3.62353	4.2353	ppb	3.62353	85.56%
S 181.975 Axial†	539.9	1751.9	µg/L	34.33	1751.9	ppb	34.33	1.96%
Sb 206.836†	0.7	0.8632	µg/L	1.09768	0.8632	ppb	1.09768	127.16%
Se 196.026†	0.5	6.47	µg/L	1.441	6.47	ppb	1.441	22.28%
SiO2†	188251.0	34647	µg/L	45.8	34647	ppb	45.8	0.13%
Si 251.611†	550405.2	16203	µg/L	4.9	16203	ppb	4.9	0.03%
Sn 189.927†	-58.0	-13.345	µg/L	0.6301	-13.345	ppb	0.6301	4.72%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	60378.9	688.23	µg/L	12.780	688.23	ppb	12.780	1.86%
Ti 334.940†	-2384.9	1.2355	µg/L	0.30875	1.2355	ppb	0.30875	24.99%
Tl 190.801†	3.0	1.4298	µg/L	3.75596	1.4298	ppb	3.75596	262.70%
U 367.007†	508.3	32.464	µg/L	1.6513	32.464	ppb	1.6513	5.09%
V 292.402†	-237.6	0.8939	µg/L	0.74855	0.8939	ppb	0.74855	83.74%
Zn 213.857†	1049.2	10.853	µg/L	0.1439	10.853	ppb	0.1439	1.33%

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Sequence No.: 17 **Autosampler Location: 315**
Sample ID: 335304014|1339675|1 **Date Collected: 11/6/2013 18:56:56**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304014|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22181.1	22181.1	101	%			18:57:28
1	Al 396.153Radial†	-108.2	-16.3	30.897	µg/L	30.897	ppb	18:57:28
1	Ca 317.933Radial†	165644.1	164374.0	111910	µg/L	111910	ppb	18:57:26
1	Fe 238.204 Radial†	4904.7	4841.4	16520	µg/L	16520	ppb	18:57:28
1	K 766.490 Radial†	36950.1	36032.8	44613	µg/L	44613	ppb	18:57:26
1	Mg 279.077 IEC†	6249.9	6200.8	43901	µg/L	43901	ppb	18:57:28
1	Na 589.592 Radial†	79255.4	78720.0	61558	µg/L	61558	ppb	18:57:26
1	Sr 421.552†	60291.6	59825.6	681.93	µg/L	681.93	ppb	18:57:26
1	Sc 361.383	1258789.8	1258789.8	99.914	%			18:57:53
1	Y 371.029	724388.5	724388.5	97.216	%			18:57:53
1	Ag 328.068†	1162.3	493.6	0.1351	µg/L	0.1351	ppb	18:57:53
1	As 188.979†	-6.9	-4.4	-5.7943	µg/L	-5.7943	ppb	18:58:14
1	B 249.677†	63474.8	63269.6	684.61	µg/L	684.61	ppb	18:57:53
1	Ba 233.527†	120626.8	120812.6	1698.1	µg/L	1698.1	ppb	18:57:53
1	Be 313.107†	-7157.6	-294.6	-0.1277	µg/L	-0.1277	ppb	18:57:53
1	Cd 226.502†	18.3	127.9	-0.1629	µg/L	-0.1629	ppb	18:58:14
1	Co 228.616†	-96.6	1.7	0.8037	µg/L	0.8037	ppb	18:58:14
1	Cr 267.716†	162.0	42.4	0.7192	µg/L	0.7192	ppb	18:58:14
1	Cu 324.752†	3017.8	-841.4	-3.0436	µg/L	-3.0436	ppb	18:57:53
1	Mn 257.610†	135985.2	135896.3	394.84	µg/L	394.84	ppb	18:57:53
1	Mo 202.031†	-69.7	-60.9	-5.0502	µg/L	-5.0502	ppb	18:58:14
1	Ni 231.604†	63.5	106.4	3.0868	µg/L	3.0868	ppb	18:58:14
1	P 214.914†	529.4	589.9	603.77	µg/L	603.77	ppb	18:58:14
1	Pb 220.353†	113.3	10.9	1.8561	µg/L	1.8561	ppb	18:58:14
1	S 181.975 Axial†	553.1	530.6	1721.7	µg/L	1721.7	ppb	18:58:14
1	Sb 206.836†	14.5	9.1	6.1911	µg/L	6.1911	ppb	18:58:14
1	Se 196.026†	7.0	-4.1	0.210	µg/L	0.210	ppb	18:58:14
1	SiO2†	185878.5	184216.3	33904	µg/L	33904	ppb	18:57:53
1	Si 251.611†	538416.3	538464.0	15852	µg/L	15852	ppb	18:57:53
1	Sn 189.927†	-62.6	-60.8	-14.591	µg/L	-14.591	ppb	18:58:14
1	Ti 334.940†	-1617.0	-3203.1	-0.3386	µg/L	-0.3386	ppb	18:57:53
1	Tl 190.801†	-4.7	11.5	11.778	µg/L	11.778	ppb	18:58:14
1	U 367.007†	785.4	471.1	23.727	µg/L	23.727	ppb	18:57:53
1	V 292.402†	233.3	-128.8	1.6127	µg/L	1.6127	ppb	18:57:53
1	Zn 213.857†	1010.9	468.8	3.4881	µg/L	3.4881	ppb	18:58:14
2	Sc RADIAL	22203.7	22203.7	101	%			18:57:32
2	Al 396.153Radial†	-98.4	-6.4	47.476	µg/L	47.476	ppb	18:57:32
2	Ca 317.933Radial†	168197.7	166739.9	113520	µg/L	113520	ppb	18:57:30
2	Fe 238.204 Radial†	4900.9	4832.7	16490	µg/L	16490	ppb	18:57:32
2	K 766.490 Radial†	37556.9	36597.5	45312	µg/L	45312	ppb	18:57:30
2	Mg 279.077 IEC†	6323.9	6267.9	44377	µg/L	44377	ppb	18:57:32
2	Na 589.592 Radial†	80690.1	80063.1	62608	µg/L	62608	ppb	18:57:30
2	Sr 421.552†	61271.3	60736.6	692.31	µg/L	692.31	ppb	18:57:30
2	Sc 361.383	1238720.6	1238720.6	98.322	%			18:58:16
2	Y 371.029	712600.1	712600.1	95.633	%			18:58:16
2	Ag 328.068†	1046.3	394.5	-0.5551	µg/L	-0.5551	ppb	18:58:16
2	As 188.979†	-2.8	-0.3	2.2779	µg/L	2.2779	ppb	18:58:36
2	B 249.677†	62476.9	63284.0	684.61	µg/L	684.61	ppb	18:58:16
2	Ba 233.527†	118495.3	120600.8	1695.1	µg/L	1695.1	ppb	18:58:16
2	Be 313.107†	-7066.5	-318.0	-0.1378	µg/L	-0.1378	ppb	18:58:16
2	Cd 226.502†	16.5	126.3	-0.1832	µg/L	-0.1832	ppb	18:58:36
2	Co 228.616†	-112.3	-15.8	0.2867	µg/L	0.2867	ppb	18:58:36
2	Cr 267.716†	171.1	54.3	0.9441	µg/L	0.9441	ppb	18:58:36
2	Cu 324.752†	3000.9	-809.7	-2.8425	µg/L	-2.8425	ppb	18:58:16
2	Mn 257.610†	133659.2	135735.7	394.36	µg/L	394.36	ppb	18:58:16
2	Mo 202.031†	-62.8	-55.0	-4.3692	µg/L	-4.3692	ppb	18:58:36
2	Ni 231.604†	70.4	114.5	3.3279	µg/L	3.3279	ppb	18:58:36
2	P 214.914†	516.4	585.2	598.89	µg/L	598.89	ppb	18:58:36
2	Pb 220.353†	113.7	13.2	2.3709	µg/L	2.3709	ppb	18:58:36

2	S 181.975 Axial†	542.4	528.8	1715.5	µg/L	1715.5	ppb	18:58:36
2	Sb 206.836†	5.8	0.5	0.7526	µg/L	0.7526	ppb	18:58:36
2	Se 196.026†	21.6	10.9	20.5	µg/L	20.5	ppb	18:58:36
2	SiO2†	183259.8	184567.0	33969	µg/L	33969	ppb	18:58:16
2	Si 251.611†	530552.5	539196.6	15873	µg/L	15873	ppb	18:58:16
2	Sn 189.927†	-60.8	-60.0	-14.101	µg/L	-14.101	ppb	18:58:36
2	Ti 334.940†	-1608.8	-3221.0	-0.2795	µg/L	-0.2795	ppb	18:58:16
2	Tl 190.801†	-12.3	3.7	2.3505	µg/L	2.3505	ppb	18:58:36
2	U 367.007†	705.5	402.5	4.7684	µg/L	4.7684	ppb	18:58:16
2	V 292.402†	87.0	-273.8	0.5829	µg/L	0.5829	ppb	18:58:16
2	Zn 213.857†	1012.6	486.9	3.7116	µg/L	3.7116	ppb	18:58:36
3	Sc RADIAL	21865.6	21865.6	99.3	%			18:57:36
3	Al 396.153Radial†	-65.0	25.7	98.389	µg/L	98.389	ppb	18:57:36
3	Ca 317.933Radial†	163953.5	165044.4	112370	µg/L	112370	ppb	18:57:34
3	Fe 238.204 Radial†	4807.7	4814.0	16426	µg/L	16426	ppb	18:57:36
3	K 766.490 Radial†	36672.1	36282.2	44921	µg/L	44921	ppb	18:57:34
3	Mg 279.077 IEC†	6146.5	6186.2	43798	µg/L	43798	ppb	18:57:36
3	Na 589.592 Radial†	79099.0	79697.8	62323	µg/L	62323	ppb	18:57:34
3	Sr 421.552†	59952.9	60348.3	687.89	µg/L	687.89	ppb	18:57:34
3	Sc 361.383	1261825.3	1261825.3	100.16	%			18:58:38
3	Y 371.029	725618.0	725618.0	97.381	%			18:58:38
3	Ag 328.068†	892.2	221.1	-1.6803	µg/L	-1.6803	ppb	18:58:38
3	As 188.979†	-9.2	-6.7	-10.382	µg/L	-10.382	ppb	18:58:58
3	B 249.677†	64099.4	63740.5	690.53	µg/L	690.53	ppb	18:58:38
3	Ba 233.527†	121575.2	121469.1	1707.3	µg/L	1707.3	ppb	18:58:38
3	Be 313.107†	-7046.2	-166.1	-0.0720	µg/L	-0.0720	ppb	18:58:38
3	Cd 226.502†	35.0	144.5	0.1091	µg/L	0.1091	ppb	18:58:58
3	Co 228.616†	-103.8	-5.2	0.6079	µg/L	0.6079	ppb	18:58:58
3	Cr 267.716†	161.9	41.9	0.7197	µg/L	0.7197	ppb	18:58:58
3	Cu 324.752†	3026.7	-839.9	-3.0571	µg/L	-3.0571	ppb	18:58:38
3	Mn 257.610†	137026.1	136608.2	396.92	µg/L	396.92	ppb	18:58:38
3	Mo 202.031†	-56.4	-47.5	-3.5356	µg/L	-3.5356	ppb	18:58:58
3	Ni 231.604†	84.6	127.3	3.7105	µg/L	3.7105	ppb	18:58:58
3	P 214.914†	525.0	584.2	597.85	µg/L	597.85	ppb	18:58:58
3	Pb 220.353†	130.9	28.3	5.6032	µg/L	5.6032	ppb	18:58:58
3	S 181.975 Axial†	544.9	521.1	1690.7	µg/L	1690.7	ppb	18:58:58
3	Sb 206.836†	5.8	0.4	0.6900	µg/L	0.6900	ppb	18:58:58
3	Se 196.026†	16.8	5.6	13.4	µg/L	13.4	ppb	18:58:58
3	SiO2†	187021.3	184909.8	34032	µg/L	34032	ppb	18:58:38
3	Si 251.611†	541543.9	540290.4	15905	µg/L	15905	ppb	18:58:38
3	Sn 189.927†	-57.6	-55.7	-12.463	µg/L	-12.463	ppb	18:58:58
3	Ti 334.940†	-1908.8	-3490.6	-0.8391	µg/L	-0.8391	ppb	18:58:38
3	Tl 190.801†	-12.9	3.4	1.8704	µg/L	1.8704	ppb	18:58:58
3	U 367.007†	713.5	397.4	3.9122	µg/L	3.9122	ppb	18:58:38
3	V 292.402†	151.2	-211.3	1.0235	µg/L	1.0235	ppb	18:58:38
3	Zn 213.857†	1020.9	476.4	3.5918	µg/L	3.5918	ppb	18:58:58

Mean Data: 335304014|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1253111.9	99.464	%	0.9966				1.00%
Sc RADIAL	22083.5	100	%	0.9				0.86%
Y 371.029	720868.8	96.743	%	0.9646				1.00%
Ag 328.068†	369.7	-0.7001	µg/L	0.91635	-0.7001	ppb	0.91635	130.89%
Al 396.153Radial†	1.0	58.921	µg/L	35.1715	58.921	ppb	35.1715	59.69%
As 188.979†	-3.8	-4.6329	µg/L	6.40954	-4.6329	ppb	6.40954	138.35%
B 249.677†	63431.4	686.58	µg/L	3.418	686.58	ppb	3.418	0.50%
Ba 233.527†	120960.8	1700.2	µg/L	6.37	1700.2	ppb	6.37	0.37%
Be 313.107†	-259.6	-0.1125	µg/L	0.03545	-0.1125	ppb	0.03545	31.51%
Ca 317.933Radial†	165386.1	112600	µg/L	830.2	112600	ppb	830.2	0.74%
Cd 226.502†	132.9	-0.0790	µg/L	0.16323	-0.0790	ppb	0.16323	206.60%
Co 228.616†	-6.5	0.5661	µg/L	0.26100	0.5661	ppb	0.26100	46.11%
Cr 267.716†	46.2	0.7943	µg/L	0.12973	0.7943	ppb	0.12973	16.33%
Cu 324.752†	-830.3	-2.9811	µg/L	0.12015	-2.9811	ppb	0.12015	4.03%
Fe 238.204 Radial†	4829.4	16479	µg/L	47.9	16479	ppb	47.9	0.29%
K 766.490 Radial†	36304.2	44949	µg/L	350.2	44949	ppb	350.2	0.78%
Mg 279.077 IEC†	6218.3	44026	µg/L	308.6	44026	ppb	308.6	0.70%
Mn 257.610†	136080.1	395.37	µg/L	1.361	395.37	ppb	1.361	0.34%
Mo 202.031†	-54.5	-4.3183	µg/L	0.75861	-4.3183	ppb	0.75861	17.57%
Na 589.592 Radial†	79493.6	62163	µg/L	543.1	62163	ppb	543.1	0.87%

Ni 231.604†	116.1	3.3751	µg/L	0.31452	3.3751	ppb	0.31452	9.32%
P 214.914†	586.4	600.17	µg/L	3.159	600.17	ppb	3.159	0.53%
Pb 220.353†	17.5	3.2767	µg/L	2.03116	3.2767	ppb	2.03116	61.99%
S 181.975 Axial†	526.8	1709.3	µg/L	16.39	1709.3	ppb	16.39	0.96%
Sb 206.836†	3.4	2.5445	µg/L	3.15812	2.5445	ppb	3.15812	124.11%
Se 196.026†	4.1	11.4	µg/L	10.31	11.4	ppb	10.31	90.64%
SiO2†	184564.4	33968	µg/L	63.8	33968	ppb	63.8	0.19%
Si 251.611†	539317.0	15877	µg/L	27.0	15877	ppb	27.0	0.17%
Sn 189.927†	-58.8	-13.718	µg/L	1.1140	-13.718	ppb	1.1140	8.12%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	60303.5	687.38	µg/L	5.211	687.38	ppb	5.211	0.76%
Ti 334.940†	-3304.9	-0.4857	µg/L	0.30743	-0.4857	ppb	0.30743	63.29%
Tl 190.801†	6.2	5.3331	µg/L	5.58697	5.3331	ppb	5.58697	104.76%
U 367.007†	423.7	10.802	µg/L	11.2010	10.802	ppb	11.2010	103.69%
V 292.402†	-204.7	1.0730	µg/L	0.51668	1.0730	ppb	0.51668	48.15%
Zn 213.857†	477.4	3.5971	µg/L	0.11184	3.5971	ppb	0.11184	3.11%

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Sequence No.: 18 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 18:59:07**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22776.2	22776.2	103	%			18:59:39
1	Al 396.153Radial†	3166.9	3153.3	5053.8	µg/L	5053.8	ppb	18:59:59
1	Ca 317.933Radial†	7787.4	7447.3	5069.5	µg/L	5069.5	ppb	18:59:59
1	Fe 238.204 Radial†	1613.4	1531.9	5211.5	µg/L	5211.5	ppb	18:59:59
1	K 766.490 Radial†	4929.5	4114.0	5101.4	µg/L	5101.4	ppb	18:59:39
1	Mg 279.077 IEC†	776.0	746.0	5282.3	µg/L	5282.3	ppb	18:59:59
1	Na 589.592 Radial†	13215.7	12811.1	10018	µg/L	10018	ppb	18:59:39
1	Sr 421.552†	44602.6	43092.2	491.78	µg/L	491.78	ppb	18:59:39
1	Sc 361.383	1294510.6	1294510.6	102.75	%			19:01:00
1	Y 371.029	749720.3	749720.3	100.62	%			19:01:00
1	Ag 328.068†	76546.4	73828.2	494.75	µg/L	494.75	ppb	19:01:03
1	As 188.979†	245.5	241.4	483.07	µg/L	483.07	ppb	19:01:23
1	B 249.677†	41842.6	40463.4	469.30	µg/L	469.30	ppb	19:01:03
1	Ba 233.527†	35852.7	34975.7	492.96	µg/L	492.96	ppb	19:01:03
1	Be 313.107†	1184219.5	1159396.7	502.51	µg/L	502.51	ppb	19:01:00
1	Cd 226.502†	32336.0	31580.1	492.66	µg/L	492.66	ppb	19:01:03
1	Co 228.616†	17242.1	16879.1	496.53	µg/L	496.53	ppb	19:01:03
1	Cr 267.716†	27736.2	26874.2	492.02	µg/L	492.02	ppb	19:01:03
1	Cu 324.752†	79048.3	73071.0	490.79	µg/L	490.79	ppb	19:01:03
1	Mn 257.610†	174166.9	169300.6	493.39	µg/L	493.39	ppb	19:01:03
1	Mo 202.031†	4498.5	4386.9	495.82	µg/L	495.82	ppb	19:01:23
1	Ni 231.604†	17029.9	16617.0	495.64	µg/L	495.64	ppb	19:01:03
1	P 214.914†	2454.8	2449.2	2582.8	µg/L	2582.8	ppb	19:01:23
1	Pb 220.353†	2488.2	2319.2	498.48	µg/L	498.48	ppb	19:01:23
1	S 181.975 Axial†	332.8	301.0	980.65	µg/L	980.65	ppb	19:01:23
1	Sb 206.836†	831.3	803.7	508.05	µg/L	508.05	ppb	19:01:23
1	Se 196.026†	384.2	362.8	495	µg/L	495	ppb	19:01:23
1	SiO2†	31697.1	29027.5	5352.1	µg/L	5352.1	ppb	19:01:03
1	Si 251.611†	88396.6	85617.8	2514.1	µg/L	2514.1	ppb	19:01:03
1	Sn 189.927†	1299.0	1266.1	515.50	µg/L	515.50	ppb	19:01:23
1	Ti 334.940†	272981.3	264091.1	491.85	µg/L	491.85	ppb	19:01:03
1	Tl 190.801†	387.1	393.0	471.54	µg/L	471.54	ppb	19:01:23
1	U 367.007†	2052.2	1682.3	431.51	µg/L	431.51	ppb	19:01:03
1	V 292.402†	71886.2	69600.1	498.58	µg/L	498.58	ppb	19:01:03
1	Zn 213.857†	40142.2	38525.0	487.76	µg/L	487.76	ppb	19:01:03
2	Sc RADIAL	22651.4	22651.4	103	%			19:00:01
2	Al 396.153Radial†	3100.1	3105.1	4976.5	µg/L	4976.5	ppb	19:00:21
2	Ca 317.933Radial†	7620.7	7326.7	4987.5	µg/L	4987.5	ppb	19:00:21
2	Fe 238.204 Radial†	1566.1	1494.5	5083.8	µg/L	5083.8	ppb	19:00:21
2	K 766.490 Radial†	4826.8	4040.4	5010.5	µg/L	5010.5	ppb	19:00:01
2	Mg 279.077 IEC†	757.3	732.0	5183.0	µg/L	5183.0	ppb	19:00:21
2	Na 589.592 Radial†	13117.3	12785.8	9998.3	µg/L	9998.3	ppb	19:00:01
2	Sr 421.552†	44465.0	43196.0	492.96	µg/L	492.96	ppb	19:00:01
2	Sc 361.383	1288985.8	1288985.8	102.31	%			19:01:25
2	Y 371.029	746447.8	746447.8	100.18	%			19:01:25
2	Ag 328.068†	77055.6	74645.1	500.22	µg/L	500.22	ppb	19:01:27
2	As 188.979†	239.1	236.3	472.94	µg/L	472.94	ppb	19:01:47
2	B 249.677†	42376.0	41159.3	478.25	µg/L	478.25	ppb	19:01:27
2	Ba 233.527†	36158.0	35423.7	499.28	µg/L	499.28	ppb	19:01:27
2	Be 313.107†	1182124.2	1162288.6	503.76	µg/L	503.76	ppb	19:01:25
2	Cd 226.502†	32605.4	31978.4	498.90	µg/L	498.90	ppb	19:01:27
2	Co 228.616†	17362.5	17068.7	502.11	µg/L	502.11	ppb	19:01:27
2	Cr 267.716†	27997.1	27244.9	498.80	µg/L	498.80	ppb	19:01:27
2	Cu 324.752†	79402.2	73746.6	495.30	µg/L	495.30	ppb	19:01:27
2	Mn 257.610†	175521.5	171351.1	499.37	µg/L	499.37	ppb	19:01:27
2	Mo 202.031†	4523.1	4429.8	500.65	µg/L	500.65	ppb	19:01:47
2	Ni 231.604†	17130.0	16785.9	500.68	µg/L	500.68	ppb	19:01:27
2	P 214.914†	2463.1	2467.5	2602.2	µg/L	2602.2	ppb	19:01:47
2	Pb 220.353†	2498.0	2339.1	502.76	µg/L	502.76	ppb	19:01:47

2	S 181.975 Axial†	346.5	315.8	1029.1 µg/L	1029.1 ppb		19:01:47
2	Sb 206.836†	832.6	808.4	511.02 µg/L	511.02 ppb		19:01:47
2	Se 196.026†	391.2	371.2	507 µg/L	507 ppb		19:01:47
2	SiO2†	31977.4	29433.8	5427.0 µg/L	5427.0 ppb		19:01:27
2	Si 251.611†	88664.8	86248.7	2532.6 µg/L	2532.6 ppb		19:01:27
2	Sn 189.927†	1313.3	1285.5	523.38 µg/L	523.38 ppb		19:01:47
2	Ti 334.940†	274956.1	267160.0	497.56 µg/L	497.56 ppb		19:01:27
2	Tl 190.801†	384.0	391.6	469.75 µg/L	469.75 ppb		19:01:47
2	U 367.007†	2078.6	1716.6	441.54 µg/L	441.54 ppb		19:01:27
2	V 292.402†	72426.2	70427.7	504.47 µg/L	504.47 ppb		19:01:27
2	Zn 213.857†	40440.2	38983.7	493.60 µg/L	493.60 ppb		19:01:27
3	Sc RADIAL	22617.9	22617.9	103 %			19:00:23
3	Al 396.153Radial†	3136.1	3144.7	5040.0 µg/L	5040.0 ppb		19:00:43
3	Ca 317.933Radial†	7758.6	7472.0	5086.3 µg/L	5086.3 ppb		19:00:43
3	Fe 238.204 Radial†	1595.8	1525.7	5190.0 µg/L	5190.0 ppb		19:00:43
3	K 766.490 Radial†	4947.8	4165.2	5165.1 µg/L	5165.1 ppb		19:00:23
3	Mg 279.077 IEC†	775.3	750.5	5314.4 µg/L	5314.4 ppb		19:00:43
3	Na 589.592 Radial†	13102.2	12789.9	10002 µg/L	10002 ppb		19:00:23
3	Sr 421.552†	45005.0	43785.8	499.70 µg/L	499.70 ppb		19:00:23
3	Sc 361.383	1289975.4	1289975.4	102.39 %			19:01:49
3	Y 371.029	747388.8	747388.8	100.30 %			19:01:49
3	Ag 328.068†	77998.6	75508.4	506.00 µg/L	506.00 ppb		19:01:51
3	As 188.979†	239.3	236.2	472.93 µg/L	472.93 ppb		19:02:11
3	B 249.677†	42935.9	41674.4	484.05 µg/L	484.05 ppb		19:01:51
3	Ba 233.527†	36789.0	36013.0	507.58 µg/L	507.58 ppb		19:01:51
3	Be 313.107†	1183617.8	1162861.0	504.01 µg/L	504.01 ppb		19:01:49
3	Cd 226.502†	33265.9	32599.0	508.58 µg/L	508.58 ppb		19:01:51
3	Co 228.616†	17645.8	17332.4	509.86 µg/L	509.86 ppb		19:01:51
3	Cr 267.716†	28337.0	27555.9	504.49 µg/L	504.49 ppb		19:01:51
3	Cu 324.752†	80415.1	74676.3	501.56 µg/L	501.56 ppb		19:01:51
3	Mn 257.610†	178053.5	173692.4	506.19 µg/L	506.19 ppb		19:01:51
3	Mo 202.031†	4545.1	4447.9	502.71 µg/L	502.71 ppb		19:02:11
3	Ni 231.604†	17544.3	17177.6	512.37 µg/L	512.37 ppb		19:01:51
3	P 214.914†	2488.6	2490.6	2626.5 µg/L	2626.5 ppb		19:02:11
3	Pb 220.353†	2522.0	2360.7	507.38 µg/L	507.38 ppb		19:02:11
3	S 181.975 Axial†	344.9	313.9	1022.9 µg/L	1022.9 ppb		19:02:11
3	Sb 206.836†	839.2	814.2	514.68 µg/L	514.68 ppb		19:02:11
3	Se 196.026†	395.2	374.9	512 µg/L	512 ppb		19:02:11
3	SiO2†	32226.9	29653.5	5467.5 µg/L	5467.5 ppb		19:01:51
3	Si 251.611†	89815.2	87305.7	2563.7 µg/L	2563.7 ppb		19:01:51
3	Sn 189.927†	1321.4	1292.4	526.21 µg/L	526.21 ppb		19:02:11
3	Ti 334.940†	278590.7	270503.6	503.78 µg/L	503.78 ppb		19:01:51
3	Tl 190.801†	392.2	399.3	479.02 µg/L	479.02 ppb		19:02:11
3	U 367.007†	2143.2	1778.2	457.85 µg/L	457.85 ppb		19:01:51
3	V 292.402†	73421.1	71345.2	511.00 µg/L	511.00 ppb		19:01:51
3	Zn 213.857†	40879.6	39382.5	498.60 µg/L	498.60 ppb		19:01:51

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1291157.3	102.48	%	0.234				0.23%
Sc RADIAL	22681.8	103	%	0.4				0.37%
Y 371.029	747852.3	100.36	%	0.226				0.23%
Ag 328.068†	74660.6	500.32	µg/L	5.625	500.32	ppb	5.625	1.12%
QC value within limits for Ag 328.068 Recovery = 100.06%								
Al 396.153Radial†	3134.3	5023.5	µg/L	41.24	5023.5	ppb	41.24	0.82%
QC value within limits for Al 396.153Radial Recovery = 100.47%								
As 188.979†	238.0	476.31	µg/L	5.849	476.31	ppb	5.849	1.23%
QC value within limits for As 188.979 Recovery = 95.26%								
B 249.677†	41099.0	477.20	µg/L	7.429	477.20	ppb	7.429	1.56%
QC value within limits for B 249.677 Recovery = 95.44%								
Ba 233.527†	35470.8	499.94	µg/L	7.330	499.94	ppb	7.330	1.47%
QC value within limits for Ba 233.527 Recovery = 99.99%								
Be 313.107†	1161515.4	503.43	µg/L	0.805	503.43	ppb	0.805	0.16%
QC value within limits for Be 313.107 Recovery = 100.69%								
Ca 317.933Radial†	7415.3	5047.8	µg/L	52.91	5047.8	ppb	52.91	1.05%
QC value within limits for Ca 317.933Radial Recovery = 100.96%								
Cd 226.502†	32052.5	500.05	µg/L	8.022	500.05	ppb	8.022	1.60%
QC value within limits for Cd 226.502 Recovery = 100.01%								
Co 228.616†	17093.4	502.84	µg/L	6.696	502.84	ppb	6.696	1.33%

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   QC value within limits for Co 228.616  Recovery = 100.57%
Cr 267.716†            27225.0      498.44 µg/L         6.242      498.44 ppb          6.242   1.25%
   QC value within limits for Cr 267.716  Recovery = 99.69%
Cu 324.752†            73831.3      495.88 µg/L         5.410      495.88 ppb          5.410   1.09%
   QC value within limits for Cu 324.752  Recovery = 99.18%
Fe 238.204 Radial†      1517.3      5161.8 µg/L         68.35      5161.8 ppb          68.35   1.32%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.24%
K 766.490 Radial†       4106.5      5092.3 µg/L         77.71      5092.3 ppb          77.71   1.53%
   QC value within limits for K 766.490 Radial  Recovery = 101.85%
Mg 279.077 IEC†          742.8      5259.9 µg/L         68.49      5259.9 ppb          68.49   1.30%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.20%
Mn 257.610†           171448.0      499.65 µg/L         6.404      499.65 ppb          6.404   1.28%
   QC value within limits for Mn 257.610  Recovery = 99.93%
Mo 202.031†             4421.5      499.73 µg/L         3.536      499.73 ppb          3.536   0.71%
   QC value within limits for Mo 202.031  Recovery = 99.95%
Na 589.592 Radial†     12795.6       10006 µg/L          10.6       10006 ppb           10.6   0.11%
   QC value within limits for Na 589.592 Radial  Recovery = 100.06%
Ni 231.604†            16860.2      502.90 µg/L         8.579      502.90 ppb          8.579   1.71%
   QC value within limits for Ni 231.604  Recovery = 100.58%
P 214.914†              2469.1      2603.8 µg/L         21.93      2603.8 ppb          21.93   0.84%
   QC value within limits for P 214.914  Recovery = 104.15%
Pb 220.353†             2339.7      502.87 µg/L         4.450      502.87 ppb          4.450   0.88%
   QC value within limits for Pb 220.353  Recovery = 100.57%
S 181.975 Axial†         310.2      1010.9 µg/L         26.37      1010.9 ppb          26.37   2.61%
   QC value within limits for S 181.975 Axial  Recovery = 101.09%
Sb 206.836†              808.8      511.25 µg/L         3.324      511.25 ppb          3.324   0.65%
   QC value within limits for Sb 206.836  Recovery = 102.25%
Se 196.026†              369.6         505 µg/L           8.4         505 ppb            8.4   1.67%
   QC value within limits for Se 196.026  Recovery = 100.96%
SiO2†                  29371.6      5415.5 µg/L         58.57      5415.5 ppb          58.57   1.08%
   QC value within limits for SiO2  Recovery = 101.27%
Si 251.611†            86390.8      2536.8 µg/L         25.06      2536.8 ppb          25.06   0.99%
   QC value within limits for Si 251.611  Recovery = 101.47%
Sn 189.927†             1281.3      521.69 µg/L         5.550      521.69 ppb          5.550   1.06%
   QC value within limits for Sn 189.927  Recovery = 104.34%
Sr 421.552†            43358.0      494.81 µg/L         4.270      494.81 ppb          4.270   0.86%
   QC value within limits for Sr 421.552  Recovery = 98.96%
Ti 334.940†           267251.5      497.73 µg/L         5.967      497.73 ppb          5.967   1.20%
   QC value within limits for Ti 334.940  Recovery = 99.55%
Tl 190.801†              394.6      473.44 µg/L         4.921      473.44 ppb          4.921   1.04%
   QC value within limits for Tl 190.801  Recovery = 94.69%
U 367.007†              1725.7      443.63 µg/L        13.295      443.63 ppb         13.295   3.00%
   QC value less than the lower limit for U 367.007  Recovery = 88.73%
V 292.402†             70457.7      504.68 µg/L         6.212      504.68 ppb          6.212   1.23%
   QC value within limits for V 292.402  Recovery = 100.94%
Zn 213.857†            38963.8      493.32 µg/L         5.425      493.32 ppb          5.425   1.10%
   QC value within limits for Zn 213.857  Recovery = 98.66%
QC Failed.  Continue with analysis.
```

Sequence No.: 19 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 19:02:20**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22683.9	22683.9	103	%			19:03:08
1	Al 396.153Radial†	-94.3	-0.4	-0.6413	µg/L	-0.6413	ppb	19:03:08
1	Ca 317.933Radial†	89.0	4.2	2.8502	µg/L	2.8502	ppb	19:03:28
1	Fe 238.204 Radial†	31.9	2.9	9.8291	µg/L	9.8291	ppb	19:03:28
1	K 766.490 Radial†	649.2	-22.0	-27.285	µg/L	-27.285	ppb	19:03:08
1	Mg 279.077 IEC†	-1.0	-5.2	-36.904	µg/L	-36.904	ppb	19:03:28
1	Na 589.592 Radial†	38.6	70.4	55.050	µg/L	55.050	ppb	19:03:08
1	Sr 421.552†	40.1	5.3	0.0602	µg/L	0.0602	ppb	19:03:08
1	Sc 361.383	1280432.6	1280432.6	101.63	%			19:05:05
1	Y 371.029	755985.7	755985.7	101.46	%			19:05:05
1	Ag 328.068†	514.8	-163.1	-1.0919	µg/L	-1.0919	ppb	19:05:07
1	As 188.979†	-3.7	-1.1	-2.1665	µg/L	-2.1665	ppb	19:05:27
1	B 249.677†	478.4	211.3	2.5282	µg/L	2.5282	ppb	19:05:27
1	Ba 233.527†	-98.5	-14.3	-0.2010	µg/L	-0.2010	ppb	19:05:27
1	Be 313.107†	-7272.7	-286.8	-0.1243	µg/L	-0.1243	ppb	19:05:07
1	Cd 226.502†	-79.3	31.4	0.4892	µg/L	0.4892	ppb	19:05:27
1	Co 228.616†	-102.7	-2.6	-0.0769	µg/L	-0.0769	ppb	19:05:27
1	Cr 267.716†	127.5	5.7	0.1050	µg/L	0.1050	ppb	19:05:27
1	Cu 324.752†	3995.7	69.7	0.4689	µg/L	0.4689	ppb	19:05:07
1	Mn 257.610†	220.5	11.7	0.0356	µg/L	0.0356	ppb	19:05:27
1	Mo 202.031†	-12.7	-3.7	-0.4147	µg/L	-0.4147	ppb	19:05:27
1	Ni 231.604†	-56.0	-12.2	-0.3649	µg/L	-0.3649	ppb	19:05:27
1	P 214.914†	-65.9	-4.8	-5.0556	µg/L	-5.0556	ppb	19:05:27
1	Pb 220.353†	113.5	9.2	1.9700	µg/L	1.9700	ppb	19:05:27
1	S 181.975 Axial†	23.6	0.3	0.9369	µg/L	0.9369	ppb	19:05:27
1	Sb 206.836†	5.5	0.1	0.0395	µg/L	0.0395	ppb	19:05:27
1	Se 196.026†	18.1	6.7	9.15	µg/L	9.15	ppb	19:05:27
1	SiO2†	2211.7	354.9	65.323	µg/L	65.323	ppb	19:05:07
1	Si 251.611†	1033.0	603.3	17.764	µg/L	17.764	ppb	19:05:27
1	Sn 189.927†	1.7	3.5	1.4265	µg/L	1.4265	ppb	19:05:27
1	Ti 334.940†	1441.5	-166.4	-0.3105	µg/L	-0.3105	ppb	19:05:07
1	Tl 190.801†	-11.2	5.2	6.3409	µg/L	6.3409	ppb	19:05:27
1	U 367.007†	325.1	4.9	1.2917	µg/L	1.2917	ppb	19:05:07
1	V 292.402†	374.2	5.9	0.0395	µg/L	0.0395	ppb	19:05:07
1	Zn 213.857†	560.2	8.3	0.1066	µg/L	0.1066	ppb	19:05:27
2	Sc RADIAL	22324.4	22324.4	101	%			19:03:48
2	Al 396.153Radial†	-74.3	17.9	28.654	µg/L	28.654	ppb	19:03:48
2	Ca 317.933Radial†	95.9	12.3	8.4063	µg/L	8.4063	ppb	19:04:08
2	Fe 238.204 Radial†	27.4	-1.1	-3.6985	µg/L	-3.6985	ppb	19:04:08
2	K 766.490 Radial†	659.7	-1.5	-1.8971	µg/L	-1.8971	ppb	19:03:48
2	Mg 279.077 IEC†	2.8	-1.5	-10.627	µg/L	-10.627	ppb	19:04:08
2	Na 589.592 Radial†	25.1	57.6	45.054	µg/L	45.054	ppb	19:03:48
2	Sr 421.552†	59.4	24.9	0.2846	µg/L	0.2846	ppb	19:03:48
2	Sc 361.383	1281771.2	1281771.2	101.74	%			19:05:29
2	Y 371.029	756915.9	756915.9	101.58	%			19:05:29
2	Ag 328.068†	584.2	-95.5	-0.6360	µg/L	-0.6360	ppb	19:05:31
2	As 188.979†	-2.3	0.3	0.6465	µg/L	0.6465	ppb	19:05:51
2	B 249.677†	489.4	221.6	2.6923	µg/L	2.6923	ppb	19:05:51
2	Ba 233.527†	-77.8	6.1	0.0841	µg/L	0.0841	ppb	19:05:51
2	Be 313.107†	-7228.7	-236.0	-0.1023	µg/L	-0.1023	ppb	19:05:31
2	Cd 226.502†	-94.1	17.0	0.2662	µg/L	0.2662	ppb	19:05:51
2	Co 228.616†	-113.1	-12.7	-0.3737	µg/L	-0.3737	ppb	19:05:51
2	Cr 267.716†	138.1	16.0	0.2972	µg/L	0.2972	ppb	19:05:51
2	Cu 324.752†	4010.5	80.2	0.5338	µg/L	0.5338	ppb	19:05:31
2	Mn 257.610†	219.5	10.5	0.0309	µg/L	0.0309	ppb	19:05:51
2	Mo 202.031†	-7.3	1.7	0.1870	µg/L	0.1870	ppb	19:05:51
2	Ni 231.604†	-40.2	3.3	0.0996	µg/L	0.0996	ppb	19:05:51
2	P 214.914†	-65.4	-4.2	-4.4692	µg/L	-4.4692	ppb	19:05:51
2	Pb 220.353†	118.4	13.9	2.9919	µg/L	2.9919	ppb	19:05:51

2	S 181.975 Axial†	29.8	6.4	20.874	µg/L	20.874	ppb	19:05:51
2	Sb 206.836†	-0.2	-5.5	-3.4812	µg/L	-3.4812	ppb	19:05:51
2	Se 196.026†	15.6	4.2	5.78	µg/L	5.78	ppb	19:05:51
2	SiO2†	2097.2	240.1	44.197	µg/L	44.197	ppb	19:05:31
2	Si 251.611†	1025.8	595.1	17.514	µg/L	17.514	ppb	19:05:51
2	Sn 189.927†	5.9	7.7	3.1150	µg/L	3.1150	ppb	19:05:51
2	Ti 334.940†	1422.6	-186.5	-0.3442	µg/L	-0.3442	ppb	19:05:31
2	Tl 190.801†	-18.4	-1.8	-2.2263	µg/L	-2.2263	ppb	19:05:51
2	U 367.007†	300.3	-19.8	-5.4197	µg/L	-5.4197	ppb	19:05:31
2	V 292.402†	258.6	-108.1	-0.7626	µg/L	-0.7626	ppb	19:05:31
2	Zn 213.857†	557.6	5.1	0.0648	µg/L	0.0648	ppb	19:05:51
3	Sc RADIAL	22390.1	22390.1	102	%			19:04:28
3	Al 396.153Radial†	-90.5	2.2	3.5112	µg/L	3.5112	ppb	19:04:28
3	Ca 317.933Radial†	94.3	10.5	7.1325	µg/L	7.1325	ppb	19:04:48
3	Fe 238.204 Radial†	27.0	-1.6	-5.5028	µg/L	-5.5028	ppb	19:04:48
3	K 766.490 Radial†	678.4	15.0	18.513	µg/L	18.513	ppb	19:04:28
3	Mg 279.077 IEC†	1.7	-2.6	-18.273	µg/L	-18.273	ppb	19:04:48
3	Na 589.592 Radial†	52.3	84.3	65.931	µg/L	65.931	ppb	19:04:28
3	Sr 421.552†	40.6	6.3	0.0713	µg/L	0.0713	ppb	19:04:28
3	Sc 361.383	1291415.9	1291415.9	102.50	%			19:05:53
3	Y 371.029	761743.9	761743.9	102.23	%			19:05:53
3	Ag 328.068†	623.5	-61.5	-0.4177	µg/L	-0.4177	ppb	19:05:56
3	As 188.979†	-2.4	0.2	0.4653	µg/L	0.4653	ppb	19:06:16
3	B 249.677†	471.1	200.1	2.4323	µg/L	2.4323	ppb	19:06:16
3	Ba 233.527†	-99.2	-14.2	-0.2022	µg/L	-0.2022	ppb	19:06:16
3	Be 313.107†	-7314.3	-266.5	-0.1155	µg/L	-0.1155	ppb	19:05:56
3	Cd 226.502†	-85.5	26.1	0.4079	µg/L	0.4079	ppb	19:06:16
3	Co 228.616†	-106.4	-5.4	-0.1593	µg/L	-0.1593	ppb	19:06:16
3	Cr 267.716†	133.1	10.1	0.1827	µg/L	0.1827	ppb	19:06:16
3	Cu 324.752†	4057.1	96.1	0.6451	µg/L	0.6451	ppb	19:05:56
3	Mn 257.610†	211.9	1.5	0.0049	µg/L	0.0049	ppb	19:06:16
3	Mo 202.031†	-11.7	-2.6	-0.2892	µg/L	-0.2892	ppb	19:06:16
3	Ni 231.604†	-29.2	14.4	0.4289	µg/L	0.4289	ppb	19:06:16
3	P 214.914†	-65.6	-4.0	-4.2117	µg/L	-4.2117	ppb	19:06:16
3	Pb 220.353†	121.4	15.9	3.4125	µg/L	3.4125	ppb	19:06:16
3	S 181.975 Axial†	31.1	7.4	24.271	µg/L	24.271	ppb	19:06:16
3	Sb 206.836†	7.8	2.2	1.4048	µg/L	1.4048	ppb	19:06:16
3	Se 196.026†	13.4	1.9	2.65	µg/L	2.65	ppb	19:06:16
3	SiO2†	2012.6	142.1	26.165	µg/L	26.165	ppb	19:05:56
3	Si 251.611†	965.2	528.5	15.558	µg/L	15.558	ppb	19:06:16
3	Sn 189.927†	0.2	2.0	0.8308	µg/L	0.8308	ppb	19:06:16
3	Ti 334.940†	1289.9	-326.3	-0.6096	µg/L	-0.6096	ppb	19:05:56
3	Tl 190.801†	-13.0	3.6	4.3171	µg/L	4.3171	ppb	19:06:16
3	U 367.007†	337.6	14.3	3.9456	µg/L	3.9456	ppb	19:05:56
3	V 292.402†	225.0	-142.8	-1.0082	µg/L	-1.0082	ppb	19:05:56
3	Zn 213.857†	559.3	2.7	0.0312	µg/L	0.0312	ppb	19:06:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1284539.9	101.96	%	0.476				0.47%
Sc RADIAL	22466.1	102	%	0.9				0.85%
Y 371.029	758215.2	101.76	%	0.415				0.41%
Ag 328.068†	-106.7	-0.7152	µg/L	0.34402	-0.7152	ppb	0.34402	48.10%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	6.5	10.508	µg/L	15.8514	10.508	ppb	15.8514	150.85%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.2	-0.3516	µg/L	1.57436	-0.3516	ppb	1.57436	447.81%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	211.0	2.5510	µg/L	0.13148	2.5510	ppb	0.13148	5.15%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-7.5	-0.1063	µg/L	0.16494	-0.1063	ppb	0.16494	155.11%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-263.1	-0.1140	µg/L	0.01108	-0.1140	ppb	0.01108	9.71%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	9.0	6.1297	µg/L	2.91060	6.1297	ppb	2.91060	47.48%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	24.8	0.3878	µg/L	0.11284	0.3878	ppb	0.11284	29.10%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-6.9	-0.2033	µg/L	0.15321	-0.2033	ppb	0.15321	75.36%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                10.6      0.1950 µg/L       0.09669      0.1950 ppb        0.09669  49.59%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                82.0      0.5492 µg/L       0.08912      0.5492 ppb        0.08912  16.23%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.1      0.2093 µg/L       8.37975      0.2093 ppb        8.37975 >999.9%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          -2.8     -3.5564 µg/L      22.94368     -3.5564 ppb       22.94368 645.14%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -3.1     -21.935 µg/L       13.5159     -21.935 ppb        13.5159  61.62%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                 7.9      0.0238 µg/L       0.01655      0.0238 ppb        0.01655  69.53%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -1.5     -0.1723 µg/L       0.31742     -0.1723 ppb        0.31742 184.27%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         70.8      55.345 µg/L       10.4416      55.345 ppb        10.4416  18.87%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 1.8      0.0545 µg/L       0.39877      0.0545 ppb        0.39877 731.50%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -4.3     -4.5788 µg/L       0.43252     -4.5788 ppb        0.43252   9.45%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                13.0      2.7915 µg/L       0.74188      2.7915 ppb        0.74188  26.58%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            4.7      15.361 µg/L       12.6063      15.361 ppb        12.6063  82.07%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -1.1     -0.6790 µg/L       2.52097     -0.6790 ppb        2.52097 371.29%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 4.3        5.86 µg/L         3.253        5.86 ppb          3.253  55.51%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     245.7      45.228 µg/L       19.5996      45.228 ppb        19.5996  43.33%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               575.6      16.945 µg/L        1.2075      16.945 ppb         1.2075   7.13%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 4.4      1.7907 µg/L       1.18486      1.7907 ppb        1.18486  66.17%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                12.2      0.1387 µg/L       0.12648      0.1387 ppb        0.12648  91.19%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -226.4     -0.4214 µg/L       0.16382     -0.4214 ppb        0.16382  38.87%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 2.3      2.8105 µg/L       4.47787      2.8105 ppb        4.47787 159.32%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 -0.2     -0.0608 µg/L       4.82693     -0.0608 ppb        4.82693 >999.9%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -81.7     -0.5771 µg/L       0.54789     -0.5771 ppb        0.54789  94.94%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                 5.4      0.0676 µg/L       0.03778      0.0676 ppb        0.03778  55.93%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 20 **Autosampler Location: 316**
Sample ID: 335304015|1339675|1 **Date Collected: 11/6/2013 19:06:24**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304015|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22097.3	22097.3	100	%			19:06:58
1	Al 396.153Radial†	-131.9	-40.3	47.293	µg/L	47.293	ppb	19:06:58
1	Ca 317.933Radial†	326077.3	324884.3	221200	µg/L	221200	ppb	19:06:56
1	Fe 238.204 Radial†	5325.9	5279.7	18015	µg/L	18015	ppb	19:06:58
1	K 766.490 Radial†	11286.4	10595.7	13074	µg/L	13074	ppb	19:06:58
1	Mg 279.077 IEC†	8778.0	8743.8	61906	µg/L	61906	ppb	19:06:58
1	Na 589.592 Radial†	175409.2	174844.6	136730	µg/L	136730	ppb	19:06:56
1	Sr 421.552†	62334.0	62088.0	706.90	µg/L	706.90	ppb	19:06:56
1	Sc 361.383	1238970.8	1238970.8	98.341	%			19:07:24
1	Y 371.029	710900.0	710900.0	95.405	%			19:07:24
1	Ag 328.068†	1741.5	1101.2	1.3302	µg/L	1.3302	ppb	19:07:24
1	As 188.979†	-2.8	-0.3	2.3966	µg/L	2.3966	ppb	19:07:44
1	B 249.677†	73306.1	74283.0	824.93	µg/L	824.93	ppb	19:07:24
1	Ba 233.527†	91331.3	92954.2	1306.5	µg/L	1306.5	ppb	19:07:24
1	Be 313.107†	-7164.4	-416.1	-0.1803	µg/L	-0.1803	ppb	19:07:24
1	Cd 226.502†	19.2	129.0	-0.3358	µg/L	-0.3358	ppb	19:07:44
1	Co 228.616†	-45.9	51.8	2.0687	µg/L	2.0687	ppb	19:07:44
1	Cr 267.716†	180.7	64.1	0.9441	µg/L	0.9441	ppb	19:07:44
1	Cu 324.752†	2806.4	-1008.2	-3.8553	µg/L	-3.8553	ppb	19:07:24
1	Mn 257.610†	168012.0	170640.4	495.47	µg/L	495.47	ppb	19:07:24
1	Mo 202.031†	-69.7	-62.0	-4.5168	µg/L	-4.5168	ppb	19:07:44
1	Ni 231.604†	310.3	358.4	10.596	µg/L	10.596	ppb	19:07:44
1	P 214.914†	440.3	507.7	514.67	µg/L	514.67	ppb	19:07:44
1	Pb 220.353†	106.8	6.2	0.7996	µg/L	0.7996	ppb	19:07:44
1	S 181.975 Axial†	1629.5	1634.0	5321.8	µg/L	5321.8	ppb	19:07:44
1	Sb 206.836†	7.5	2.3	1.9096	µg/L	1.9096	ppb	19:07:44
1	Se 196.026†	13.1	2.2	9.17	µg/L	9.17	ppb	19:07:44
1	SiO2†	178334.6	179521.1	33040	µg/L	33040	ppb	19:07:24
1	Si 251.611†	517779.8	526099.5	15488	µg/L	15488	ppb	19:07:24
1	Sn 189.927†	-72.0	-71.4	-9.0238	µg/L	-9.0238	ppb	19:07:44
1	Ti 334.940†	-3994.2	-5646.3	0.7990	µg/L	0.7990	ppb	19:07:24
1	Tl 190.801†	-14.2	1.8	-1.3722	µg/L	-1.3722	ppb	19:07:44
1	U 367.007†	819.8	518.6	9.3326	µg/L	9.3326	ppb	19:07:24
1	V 292.402†	24.8	-337.1	0.3826	µg/L	0.3826	ppb	19:07:24
1	Zn 213.857†	1109.9	585.7	4.4416	µg/L	4.4416	ppb	19:07:44
2	Sc RADIAL	22374.2	22374.2	102	%			19:07:02
2	Al 396.153Radial†	-81.2	11.2	130.28	µg/L	130.28	ppb	19:07:02
2	Ca 317.933Radial†	331226.1	325931.2	221910	µg/L	221910	ppb	19:07:00
2	Fe 238.204 Radial†	5464.6	5350.4	18257	µg/L	18257	ppb	19:07:02
2	K 766.490 Radial†	11466.2	10633.4	13120	µg/L	13120	ppb	19:07:02
2	Mg 279.077 IEC†	8950.2	8805.1	62339	µg/L	62339	ppb	19:07:02
2	Na 589.592 Radial†	178613.0	175835.0	137500	µg/L	137500	ppb	19:07:00
2	Sr 421.552†	63373.0	62342.0	709.79	µg/L	709.79	ppb	19:07:00
2	Sc 361.383	1222896.5	1222896.5	97.066	%			19:07:47
2	Y 371.029	701389.0	701389.0	94.129	%			19:07:47
2	Ag 328.068†	1630.7	1010.3	0.6987	µg/L	0.6987	ppb	19:07:47
2	As 188.979†	-0.0	2.5	8.0346	µg/L	8.0346	ppb	19:08:07
2	B 249.677†	71229.8	73123.8	809.98	µg/L	809.98	ppb	19:07:47
2	Ba 233.527†	89124.5	91901.5	1291.7	µg/L	1291.7	ppb	19:07:47
2	Be 313.107†	-7028.0	-371.4	-0.1610	µg/L	-0.1610	ppb	19:07:47
2	Cd 226.502†	13.8	123.8	-0.4503	µg/L	-0.4503	ppb	19:08:07
2	Co 228.616†	-49.8	47.1	1.9169	µg/L	1.9169	ppb	19:08:07
2	Cr 267.716†	194.5	80.7	1.2550	µg/L	1.2550	ppb	19:08:07
2	Cu 324.752†	2797.2	-980.1	-3.6294	µg/L	-3.6294	ppb	19:07:47
2	Mn 257.610†	163790.3	168536.7	489.33	µg/L	489.33	ppb	19:07:47
2	Mo 202.031†	-90.4	-84.3	-7.0170	µg/L	-7.0170	ppb	19:08:07
2	Ni 231.604†	264.2	315.0	9.2996	µg/L	9.2996	ppb	19:08:07
2	P 214.914†	444.3	517.7	524.99	µg/L	524.99	ppb	19:08:07
2	Pb 220.353†	98.4	-1.1	-0.7685	µg/L	-0.7685	ppb	19:08:07

2	S 181.975 Axial†	1629.9	1656.3	5394.6	µg/L	5394.6	ppb	19:08:07
2	Sb 206.836†	3.8	-1.4	-0.4798	µg/L	-0.4798	ppb	19:08:07
2	Se 196.026†	10.2	-0.5	5.53	µg/L	5.53	ppb	19:08:07
2	SiO2†	174205.8	177651.2	32696	µg/L	32696	ppb	19:07:47
2	Si 251.611†	505776.5	520654.0	15328	µg/L	15328	ppb	19:07:47
2	Sn 189.927†	-71.2	-71.5	-8.9899	µg/L	-8.9899	ppb	19:08:07
2	Ti 334.940†	-3845.1	-5546.0	1.0204	µg/L	1.0204	ppb	19:07:47
2	Tl 190.801†	-10.4	5.6	3.2613	µg/L	3.2613	ppb	19:08:07
2	U 367.007†	813.9	523.4	9.2901	µg/L	9.2901	ppb	19:07:47
2	V 292.402†	-1.1	-363.4	0.2047	µg/L	0.2047	ppb	19:07:47
2	Zn 213.857†	1125.8	616.9	4.8160	µg/L	4.8160	ppb	19:08:07
3	Sc RADIAL	22240.3	22240.3	101	%			19:07:06
3	Al 396.153Radial†	-91.1	0.9	114.02	µg/L	114.02	ppb	19:07:06
3	Ca 317.933Radial†	329919.9	326599.8	222370	µg/L	222370	ppb	19:07:04
3	Fe 238.204 Radial†	5382.0	5301.1	18088	µg/L	18088	ppb	19:07:06
3	K 766.490 Radial†	11290.5	10527.4	12990	µg/L	12990	ppb	19:07:06
3	Mg 279.077 IEC†	8909.2	8817.5	62427	µg/L	62427	ppb	19:07:06
3	Na 589.592 Radial†	176856.7	175153.9	136970	µg/L	136970	ppb	19:07:04
3	Sr 421.552†	63184.1	62530.4	711.94	µg/L	711.94	ppb	19:07:04
3	Sc 361.383	1245231.8	1245231.8	98.838	%			19:08:09
3	Y 371.029	714357.1	714357.1	95.869	%			19:08:09
3	Ag 328.068†	1498.4	846.3	-0.3870	µg/L	-0.3870	ppb	19:08:09
3	As 188.979†	-0.7	1.8	6.6332	µg/L	6.6332	ppb	19:08:29
3	B 249.677†	73089.8	73689.3	817.51	µg/L	817.51	ppb	19:08:09
3	Ba 233.527†	91019.0	92171.3	1295.5	µg/L	1295.5	ppb	19:08:09
3	Be 313.107†	-7122.5	-337.1	-0.1461	µg/L	-0.1461	ppb	19:08:09
3	Cd 226.502†	15.6	125.3	-0.4033	µg/L	-0.4033	ppb	19:08:29
3	Co 228.616†	-47.0	50.8	2.0341	µg/L	2.0341	ppb	19:08:29
3	Cr 267.716†	192.3	74.8	1.1542	µg/L	1.1542	ppb	19:08:29
3	Cu 324.752†	2729.2	-1100.6	-4.4714	µg/L	-4.4714	ppb	19:08:09
3	Mn 257.610†	167533.6	169297.4	491.54	µg/L	491.54	ppb	19:08:09
3	Mo 202.031†	-78.8	-70.9	-5.5032	µg/L	-5.5032	ppb	19:08:29
3	Ni 231.604†	289.5	335.8	9.9200	µg/L	9.9200	ppb	19:08:29
3	P 214.914†	423.5	488.6	494.24	µg/L	494.24	ppb	19:08:29
3	Pb 220.353†	101.9	0.7	-0.3703	µg/L	-0.3703	ppb	19:08:29
3	S 181.975 Axial†	1570.1	1565.6	5097.9	µg/L	5097.9	ppb	19:08:29
3	Sb 206.836†	8.4	3.1	2.4076	µg/L	2.4076	ppb	19:08:29
3	Se 196.026†	9.7	-1.3	4.41	µg/L	4.41	ppb	19:08:29
3	SiO2†	178132.8	178405.1	32835	µg/L	32835	ppb	19:08:09
3	Si 251.611†	517052.0	522715.8	15388	µg/L	15388	ppb	19:08:09
3	Sn 189.927†	-77.2	-76.3	-10.915	µg/L	-10.915	ppb	19:08:29
3	Ti 334.940†	-4043.9	-5676.2	0.8133	µg/L	0.8133	ppb	19:08:09
3	Tl 190.801†	-20.7	-4.7	-9.1638	µg/L	-9.1638	ppb	19:08:29
3	U 367.007†	747.0	440.7	-12.631	µg/L	-12.631	ppb	19:08:09
3	V 292.402†	-8.6	-371.0	0.1307	µg/L	0.1307	ppb	19:08:09
3	Zn 213.857†	1115.6	585.8	4.4306	µg/L	4.4306	ppb	19:08:29

Mean Data: 335304015|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1235699.7	98.082	%	0.9145				0.93%
Sc RADIAL	22237.3	101	%	0.6				0.62%
Y 371.029	708882.0	95.134	%	0.9012				0.95%
Ag 328.068†	985.9	0.5473	µg/L	0.86857	0.5473	ppb	0.86857	158.71%
Al 396.153Radial†	-9.4	97.198	µg/L	43.9772	97.198	ppb	43.9772	45.24%
As 188.979†	1.3	5.6881	µg/L	2.93538	5.6881	ppb	2.93538	51.61%
B 249.677†	73698.7	817.47	µg/L	7.472	817.47	ppb	7.472	0.91%
Ba 233.527†	92342.3	1297.9	µg/L	7.69	1297.9	ppb	7.69	0.59%
Be 313.107†	-374.8	-0.1625	µg/L	0.01717	-0.1625	ppb	0.01717	10.57%
Ca 317.933Radial†	325805.1	221830	µg/L	588.7	221830	ppb	588.7	0.27%
Cd 226.502†	126.0	-0.3965	µg/L	0.05758	-0.3965	ppb	0.05758	14.53%
Co 228.616†	49.9	2.0066	µg/L	0.07957	2.0066	ppb	0.07957	3.97%
Cr 267.716†	73.2	1.1177	µg/L	0.15863	1.1177	ppb	0.15863	14.19%
Cu 324.752†	-1029.6	-3.9854	µg/L	0.43579	-3.9854	ppb	0.43579	10.93%
Fe 238.204 Radial†	5310.4	18120	µg/L	123.8	18120	ppb	123.8	0.68%
K 766.490 Radial†	10585.5	13061	µg/L	66.4	13061	ppb	66.4	0.51%
Mg 279.077 IEC†	8788.8	62224	µg/L	279.0	62224	ppb	279.0	0.45%
Mn 257.610†	169491.5	492.12	µg/L	3.111	492.12	ppb	3.111	0.63%
Mo 202.031†	-72.4	-5.6790	µg/L	1.25932	-5.6790	ppb	1.25932	22.17%
Na 589.592 Radial†	175277.8	137070	µg/L	396.2	137070	ppb	396.2	0.29%

Ni 231.604†	336.4	9.9386	µg/L	0.64843	9.9386	ppb	0.64843	6.52%
P 214.914†	504.7	511.30	µg/L	15.647	511.30	ppb	15.647	3.06%
Pb 220.353†	1.9	-0.1130	µg/L	0.81505	-0.1130	ppb	0.81505	720.98%
S 181.975 Axial†	1618.6	5271.4	µg/L	154.65	5271.4	ppb	154.65	2.93%
Sb 206.836†	1.3	1.2792	µg/L	1.54348	1.2792	ppb	1.54348	120.66%
Se 196.026†	0.1	6.37	µg/L	2.491	6.37	ppb	2.491	39.09%
SiO2†	178525.8	32857	µg/L	173.1	32857	ppb	173.1	0.53%
Si 251.611†	523156.4	15401	µg/L	80.9	15401	ppb	80.9	0.53%
Sn 189.927†	-73.1	-9.6428	µg/L	1.10167	-9.6428	ppb	1.10167	11.42%
Sr 421.552†	62320.1	709.54	µg/L	2.529	709.54	ppb	2.529	0.36%
Ti 334.940†	-5622.8	0.8776	µg/L	0.12391	0.8776	ppb	0.12391	14.12%
Tl 190.801†	0.9	-2.4249	µg/L	6.27910	-2.4249	ppb	6.27910	258.94%
U 367.007†	494.3	1.9973	µg/L	12.66832	1.9973	ppb	12.66832	634.27%
V 292.402†	-357.1	0.2393	µg/L	0.12950	0.2393	ppb	0.12950	54.11%
Zn 213.857†	596.1	4.5627	µg/L	0.21943	4.5627	ppb	0.21943	4.81%

Sequence No.: 21
Sample ID: 335304016|1339675|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 317
Date Collected: 11/6/2013 19:08:37
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304016|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22091.7	22091.7	100	%			19:09:09
1	Al 396.153Radial†	-114.9	-23.4	76.428	µg/L	76.428	ppb	19:09:09
1	Ca 317.933Radial†	331798.6	330670.6	225140	µg/L	225140	ppb	19:09:07
1	Fe 238.204 Radial†	5280.3	5235.5	17864	µg/L	17864	ppb	19:09:09
1	K 766.490 Radial†	11330.3	10642.3	13131	µg/L	13131	ppb	19:09:09
1	Mg 279.077 IEC†	8757.9	8726.1	61780	µg/L	61780	ppb	19:09:09
1	Na 589.592 Radial†	177390.4	176864.2	138310	µg/L	138310	ppb	19:09:07
1	Sr 421.552†	63742.1	63507.6	723.07	µg/L	723.07	ppb	19:09:07
1	Sc 361.383	1230736.4	1230736.4	97.688	%			19:09:35
1	Y 371.029	706267.7	706267.7	94.784	%			19:09:35
1	Ag 328.068†	1640.5	1009.6	0.6414	µg/L	0.6414	ppb	19:09:35
1	As 188.979†	-5.9	-3.5	-3.9035	µg/L	-3.9035	ppb	19:09:55
1	B 249.677†	71964.6	73408.5	814.90	µg/L	814.90	ppb	19:09:35
1	Ba 233.527†	89506.5	91707.6	1288.9	µg/L	1288.9	ppb	19:09:35
1	Be 313.107†	-7110.3	-409.4	-0.1775	µg/L	-0.1775	ppb	19:09:35
1	Cd 226.502†	8.8	118.5	-0.4807	µg/L	-0.4807	ppb	19:09:55
1	Co 228.616†	-31.2	66.4	2.4946	µg/L	2.4946	ppb	19:09:55
1	Cr 267.716†	197.7	82.7	1.3021	µg/L	1.3021	ppb	19:09:55
1	Cu 324.752†	2833.7	-961.1	-3.5737	µg/L	-3.5737	ppb	19:09:35
1	Mn 257.610†	163481.1	167145.4	485.29	µg/L	485.29	ppb	19:09:35
1	Mo 202.031†	-67.8	-60.5	-4.3551	µg/L	-4.3551	ppb	19:09:55
1	Ni 231.604†	282.2	331.7	9.8007	µg/L	9.8007	ppb	19:09:55
1	P 214.914†	416.0	485.9	491.74	µg/L	491.74	ppb	19:09:55
1	Pb 220.353†	122.5	22.9	4.4152	µg/L	4.4152	ppb	19:09:55
1	S 181.975 Axial†	1615.3	1630.6	5310.3	µg/L	5310.3	ppb	19:09:55
1	Sb 206.836†	1.5	-3.8	-1.9513	µg/L	-1.9513	ppb	19:09:55
1	Se 196.026†	10.5	-0.4	5.60	µg/L	5.60	ppb	19:09:55
1	SiO2†	174907.5	177226.2	32618	µg/L	32618	ppb	19:09:35
1	Si 251.611†	506790.9	518373.1	15260	µg/L	15260	ppb	19:09:35
1	Sn 189.927†	-77.2	-77.2	-11.041	µg/L	-11.041	ppb	19:09:55
1	Ti 334.940†	-4465.4	-6155.8	0.0727	µg/L	0.0727	ppb	19:09:35
1	Tl 190.801†	-16.9	-1.1	-4.8513	µg/L	-4.8513	ppb	19:09:55
1	U 367.007†	719.6	421.6	-17.170	µg/L	-17.170	ppb	19:09:35
1	V 292.402†	50.8	-310.3	0.5367	µg/L	0.5367	ppb	19:09:35
1	Zn 213.857†	1064.3	546.6	3.9639	µg/L	3.9639	ppb	19:09:55
2	Sc RADIAL	21833.1	21833.1	99.1	%			19:09:13
2	Al 396.153Radial†	-174.1	-84.4	-20.411	µg/L	-20.411	ppb	19:09:13
2	Ca 317.933Radial†	330880.9	333662.2	227180	µg/L	227180	ppb	19:09:11
2	Fe 238.204 Radial†	5195.9	5212.7	17787	µg/L	17787	ppb	19:09:13
2	K 766.490 Radial†	11215.3	10660.1	13152	µg/L	13152	ppb	19:09:13
2	Mg 279.077 IEC†	8623.9	8694.2	61555	µg/L	61555	ppb	19:09:13
2	Na 589.592 Radial†	177955.2	179528.2	140390	µg/L	140390	ppb	19:09:11
2	Sr 421.552†	63698.6	64216.2	731.14	µg/L	731.14	ppb	19:09:11
2	Sc 361.383	1236619.8	1236619.8	98.155	%			19:09:57
2	Y 371.029	709736.8	709736.8	95.249	%			19:09:57
2	Ag 328.068†	1558.2	917.8	-0.0439	µg/L	-0.0439	ppb	19:09:57
2	As 188.979†	-7.0	-4.6	-5.9491	µg/L	-5.9491	ppb	19:10:17
2	B 249.677†	72393.9	73495.4	816.24	µg/L	816.24	ppb	19:09:57
2	Ba 233.527†	90012.1	91786.8	1290.1	µg/L	1290.1	ppb	19:09:57
2	Be 313.107†	-7076.0	-339.9	-0.1473	µg/L	-0.1473	ppb	19:09:57
2	Cd 226.502†	-6.6	102.8	-0.7157	µg/L	-0.7157	ppb	19:10:17
2	Co 228.616†	-16.8	81.3	2.9327	µg/L	2.9327	ppb	19:10:17
2	Cr 267.716†	214.8	99.1	1.5872	µg/L	1.5872	ppb	19:10:17
2	Cu 324.752†	2691.3	-1119.9	-4.6389	µg/L	-4.6389	ppb	19:09:57
2	Mn 257.610†	164382.7	167267.7	485.65	µg/L	485.65	ppb	19:09:57
2	Mo 202.031†	-75.2	-67.7	-5.1802	µg/L	-5.1802	ppb	19:10:17
2	Ni 231.604†	315.5	364.3	10.773	µg/L	10.773	ppb	19:10:17
2	P 214.914†	422.8	490.8	496.97	µg/L	496.97	ppb	19:10:17
2	Pb 220.353†	117.5	17.3	3.1777	µg/L	3.1777	ppb	19:10:17

2	S 181.975 Axial†	1610.2	1617.5	5267.4	µg/L	5267.4	ppb	19:10:17
2	Sb 206.836†	8.5	3.3	2.4986	µg/L	2.4986	ppb	19:10:17
2	Se 196.026†	16.4	5.6	13.7	µg/L	13.7	ppb	19:10:17
2	SiO2†	175657.6	177138.5	32602	µg/L	32602	ppb	19:09:57
2	Si 251.611†	508892.0	518045.5	15251	µg/L	15251	ppb	19:09:57
2	Sn 189.927†	-80.1	-79.8	-11.887	µg/L	-11.887	ppb	19:10:17
2	Ti 334.940†	-4588.0	-6259.0	-0.0221	µg/L	-0.0221	ppb	19:09:57
2	Tl 190.801†	-9.1	6.9	4.8646	µg/L	4.8646	ppb	19:10:17
2	U 367.007†	803.8	503.9	5.4443	µg/L	5.4443	ppb	19:09:57
2	V 292.402†	124.7	-235.3	1.0578	µg/L	1.0578	ppb	19:09:57
2	Zn 213.857†	1060.8	537.8	3.8590	µg/L	3.8590	ppb	19:10:17
3	Sc RADIAL	22279.9	22279.9	101	%			19:09:17
3	Al 396.153Radial†	-172.7	-79.6	-16.862	µg/L	-16.862	ppb	19:09:17
3	Ca 317.933Radial†	325315.3	321468.8	218870	µg/L	218870	ppb	19:09:15
3	Fe 238.204 Radial†	5327.7	5237.9	17873	µg/L	17873	ppb	19:09:17
3	K 766.490 Radial†	11460.0	10675.1	13171	µg/L	13171	ppb	19:09:17
3	Mg 279.077 IEC†	8818.0	8711.7	61678	µg/L	61678	ppb	19:09:17
3	Na 589.592 Radial†	174814.9	172825.0	135150	µg/L	135150	ppb	19:09:15
3	Sr 421.552†	63066.5	62303.1	709.37	µg/L	709.37	ppb	19:09:15
3	Sc 361.383	1291587.5	1291587.5	102.52	%			19:10:19
3	Y 371.029	741965.4	741965.4	99.574	%			19:10:19
3	Ag 328.068†	1355.2	652.2	-1.5790	µg/L	-1.5790	ppb	19:10:19
3	As 188.979†	-6.8	-4.1	-5.0389	µg/L	-5.0389	ppb	19:10:39
3	B 249.677†	65653.4	63781.5	698.46	µg/L	698.46	ppb	19:10:19
3	Ba 233.527†	82093.3	80159.7	1126.6	µg/L	1126.6	ppb	19:10:19
3	Be 313.107†	-6773.0	262.5	0.1138	µg/L	0.1138	ppb	19:10:19
3	Cd 226.502†	23.3	132.3	-0.2663	µg/L	-0.2663	ppb	19:10:39
3	Co 228.616†	-35.2	64.0	2.3338	µg/L	2.3338	ppb	19:10:39
3	Cr 267.716†	200.5	75.9	1.2025	µg/L	1.2025	ppb	19:10:39
3	Cu 324.752†	2797.7	-1132.8	-4.7261	µg/L	-4.7261	ppb	19:10:19
3	Mn 257.610†	150603.3	146699.3	425.70	µg/L	425.70	ppb	19:10:19
3	Mo 202.031†	-76.8	-66.1	-4.9836	µg/L	-4.9836	ppb	19:10:39
3	Ni 231.604†	319.4	354.4	10.476	µg/L	10.476	ppb	19:10:39
3	P 214.914†	420.3	470.1	474.88	µg/L	474.88	ppb	19:10:39
3	Pb 220.353†	114.6	9.3	1.4924	µg/L	1.4924	ppb	19:10:39
3	S 181.975 Axial†	1615.3	1552.7	5056.1	µg/L	5056.1	ppb	19:10:39
3	Sb 206.836†	8.7	3.1	2.4170	µg/L	2.4170	ppb	19:10:39
3	Se 196.026†	8.2	-3.1	1.95	µg/L	1.95	ppb	19:10:39
3	SiO2†	160131.6	154377.6	28412	µg/L	28412	ppb	19:10:19
3	Si 251.611†	464521.4	452700.0	13327	µg/L	13327	ppb	19:10:19
3	Sn 189.927†	-70.4	-66.8	-7.3619	µg/L	-7.3619	ppb	19:10:39
3	Ti 334.940†	-3682.1	-5176.4	1.5682	µg/L	1.5682	ppb	19:10:19
3	Tl 190.801†	-15.3	1.3	-1.6967	µg/L	-1.6967	ppb	19:10:39
3	U 367.007†	738.9	405.7	-20.419	µg/L	-20.419	ppb	19:10:19
3	V 292.402†	189.9	-177.1	1.4653	µg/L	1.4653	ppb	19:10:19
3	Zn 213.857†	1065.5	496.4	3.3236	µg/L	3.3236	ppb	19:10:39

Mean Data: 335304016|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1252981.2	99.453	%	2.6640				2.68%
Sc RADIAL	22068.2	100	%	1.0				1.02%
Y 371.029	719323.3	96.536	%	2.6418				2.74%
Ag 328.068†	859.9	-0.3272	µg/L	1.13702	-0.3272	ppb	1.13702	347.55%
Al 396.153Radial†	-62.5	13.052	µg/L	54.9140	13.052	ppb	54.9140	420.74%
As 188.979†	-4.1	-4.9638	µg/L	1.02487	-4.9638	ppb	1.02487	20.65%
B 249.677†	70228.5	776.53	µg/L	67.618	776.53	ppb	67.618	8.71%
Ba 233.527†	87884.7	1235.2	µg/L	94.04	1235.2	ppb	94.04	7.61%
Be 313.107†	-162.3	-0.0703	µg/L	0.16015	-0.0703	ppb	0.16015	227.67%
Ca 317.933Radial†	328600.5	223730	µg/L	4327.0	223730	ppb	4327.0	1.93%
Cd 226.502†	117.8	-0.4876	µg/L	0.22477	-0.4876	ppb	0.22477	46.10%
Co 228.616†	70.6	2.5870	µg/L	0.30997	2.5870	ppb	0.30997	11.98%
Cr 267.716†	85.9	1.3639	µg/L	0.19967	1.3639	ppb	0.19967	14.64%
Cu 324.752†	-1071.3	-4.3129	µg/L	0.64165	-4.3129	ppb	0.64165	14.88%
Fe 238.204 Radial†	5228.7	17841	µg/L	47.4	17841	ppb	47.4	0.27%
K 766.490 Radial†	10659.2	13152	µg/L	20.0	13152	ppb	20.0	0.15%
Mg 279.077 IEC†	8710.7	61671	µg/L	112.8	61671	ppb	112.8	0.18%
Mn 257.610†	160370.8	465.55	µg/L	34.510	465.55	ppb	34.510	7.41%
Mo 202.031†	-64.8	-4.8396	µg/L	0.43096	-4.8396	ppb	0.43096	8.90%
Na 589.592 Radial†	176405.8	137950	µg/L	2639.2	137950	ppb	2639.2	1.91%

Ni 231.604†	350.1	10.350	µg/L	0.4984	10.350	ppb	0.4984	4.82%
P 214.914†	482.3	487.86	µg/L	11.542	487.86	ppb	11.542	2.37%
Pb 220.353†	16.5	3.0284	µg/L	1.46707	3.0284	ppb	1.46707	48.44%
S 181.975 Axial†	1600.3	5211.3	µg/L	136.12	5211.3	ppb	136.12	2.61%
Sb 206.836†	0.9	0.9881	µg/L	2.54589	0.9881	ppb	2.54589	257.66%
Se 196.026†	0.7	7.08	µg/L	6.008	7.08	ppb	6.008	84.85%
SiO2†	169580.8	31211	µg/L	2423.2	31211	ppb	2423.2	7.76%
Si 251.611†	496372.9	14613	µg/L	1113.3	14613	ppb	1113.3	7.62%
Sn 189.927†	-74.6	-10.097	µg/L	2.4058	-10.097	ppb	2.4058	23.83%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	63342.3	721.19	µg/L	11.006	721.19	ppb	11.006	1.53%
Ti 334.940†	-5863.7	0.5396	µg/L	0.89205	0.5396	ppb	0.89205	165.31%
Tl 190.801†	2.4	-0.5611	µg/L	4.95645	-0.5611	ppb	4.95645	883.30%
U 367.007†	443.8	-10.715	µg/L	14.0882	-10.715	ppb	14.0882	131.48%
V 292.402†	-240.9	1.0200	µg/L	0.46543	1.0200	ppb	0.46543	45.63%
Zn 213.857†	526.9	3.7155	µg/L	0.34343	3.7155	ppb	0.34343	9.24%

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Sequence No.: 22 **Autosampler Location: 318**
Sample ID: 335304017|1339675|1 **Date Collected: 11/6/2013 19:10:48**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304017|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22471.8	22471.8	102	%			19:11:20
1	Al 396.153Radial†	-131.4	-37.6	68.396	µg/L	68.396	ppb	19:11:20
1	Ca 317.933Radial†	378406.6	370751.6	252430	µg/L	252430	ppb	19:11:18
1	Fe 238.204 Radial†	10166.9	9935.3	33901	µg/L	33901	ppb	19:11:20
1	K 766.490 Radial†	16921.7	15930.7	19655	µg/L	19655	ppb	19:11:20
1	Mg 279.077 IEC†	10481.3	10267.3	72694	µg/L	72694	ppb	19:11:20
1	Na 589.592 Radial†	264875.0	259607.2	203010	µg/L	203010	ppb	19:11:18
1	Sr 421.552†	85357.8	83616.0	952.36	µg/L	952.36	ppb	19:11:18
1	Sc 361.383	1241948.2	1241948.2	98.578	%			19:11:46
1	Y 371.029	711437.1	711437.1	95.477	%			19:11:46
1	Ag 328.068†	1495.1	847.0	-1.3678	µg/L	-1.3678	ppb	19:11:46
1	As 188.979†	1.9	4.5	14.656	µg/L	14.656	ppb	19:12:06
1	B 249.677†	122959.5	124474.1	1369.2	µg/L	1369.2	ppb	19:11:46
1	Ba 233.527†	101177.7	102720.1	1443.5	µg/L	1443.5	ppb	19:11:46
1	Be 313.107†	-7015.9	-248.0	-0.1075	µg/L	-0.1075	ppb	19:11:46
1	Cd 226.502†	163.0	274.8	-0.1381	µg/L	-0.1381	ppb	19:12:06
1	Co 228.616†	-30.3	67.7	2.4766	µg/L	2.4766	ppb	19:12:06
1	Cr 267.716†	187.2	70.2	1.3086	µg/L	1.3086	ppb	19:12:06
1	Cu 324.752†	2478.5	-1347.6	-3.8241	µg/L	-3.8241	ppb	19:11:46
1	Mn 257.610†	352240.4	357117.2	1039.0	µg/L	1039.0	ppb	19:11:46
1	Mo 202.031†	-72.1	-64.3	-4.1224	µg/L	-4.1224	ppb	19:12:06
1	Ni 231.604†	266.8	313.4	9.1710	µg/L	9.1710	ppb	19:12:06
1	P 214.914†	693.6	763.6	764.95	µg/L	764.95	ppb	19:12:06
1	Pb 220.353†	106.6	5.7	0.3145	µg/L	0.3145	ppb	19:12:06
1	S 181.975 Axial†	440.6	424.0	1356.1	µg/L	1356.1	ppb	19:12:06
1	Sb 206.836†	3.3	-2.0	-0.3340	µg/L	-0.3340	ppb	19:12:06
1	Se 196.026†	8.3	-2.7	8.26	µg/L	8.26	ppb	19:12:06
1	SiO2†	202288.6	203386.0	37432	µg/L	37432	ppb	19:11:46
1	Si 251.611†	587481.0	595544.0	17534	µg/L	17534	ppb	19:11:46
1	Sn 189.927†	-79.9	-79.2	-9.3300	µg/L	-9.3300	ppb	19:12:06
1	Ti 334.940†	-5128.0	-6786.8	0.2424	µg/L	0.2424	ppb	19:11:46
1	Tl 190.801†	-15.4	0.7	-4.5575	µg/L	-4.5575	ppb	19:12:06
1	U 367.007†	1024.8	724.5	-21.181	µg/L	-21.181	ppb	19:11:46
1	V 292.402†	-307.7	-674.5	0.4616	µg/L	0.4616	ppb	19:11:46
1	Zn 213.857†	1450.1	928.1	7.0332	µg/L	7.0332	ppb	19:12:06
2	Sc RADIAL	22407.5	22407.5	102	%			19:11:24
2	Al 396.153Radial†	-88.2	4.4	135.86	µg/L	135.86	ppb	19:11:24
2	Ca 317.933Radial†	377223.6	370653.3	252360	µg/L	252360	ppb	19:11:22
2	Fe 238.204 Radial†	10199.2	9995.6	34107	µg/L	34107	ppb	19:11:24
2	K 766.490 Radial†	16955.3	16011.4	19755	µg/L	19755	ppb	19:11:24
2	Mg 279.077 IEC†	10555.4	10369.5	73418	µg/L	73418	ppb	19:11:24
2	Na 589.592 Radial†	263815.3	259310.7	202780	µg/L	202780	ppb	19:11:22
2	Sr 421.552†	85127.0	83629.2	952.51	µg/L	952.51	ppb	19:11:22
2	Sc 361.383	1237952.6	1237952.6	98.261	%			19:12:08
2	Y 371.029	708819.2	708819.2	95.126	%			19:12:08
2	Ag 328.068†	1742.5	1103.6	0.3451	µg/L	0.3451	ppb	19:12:08
2	As 188.979†	3.0	5.6	16.870	µg/L	16.870	ppb	19:12:28
2	B 249.677†	122759.0	124672.6	1370.8	µg/L	1370.8	ppb	19:12:08
2	Ba 233.527†	101207.8	103082.0	1448.6	µg/L	1448.6	ppb	19:12:08
2	Be 313.107†	-7126.6	-383.7	-0.1663	µg/L	-0.1663	ppb	19:12:08
2	Cd 226.502†	157.5	269.8	-0.2446	µg/L	-0.2446	ppb	19:12:28
2	Co 228.616†	-26.0	72.0	2.6032	µg/L	2.6032	ppb	19:12:28
2	Cr 267.716†	181.1	64.6	1.2047	µg/L	1.2047	ppb	19:12:28
2	Cu 324.752†	2348.0	-1472.3	-4.6266	µg/L	-4.6266	ppb	19:12:08
2	Mn 257.610†	351971.0	357996.4	1041.5	µg/L	1041.5	ppb	19:12:08
2	Mo 202.031†	-68.4	-60.8	-3.6911	µg/L	-3.6911	ppb	19:12:28
2	Ni 231.604†	253.4	300.8	8.7917	µg/L	8.7917	ppb	19:12:28
2	P 214.914†	709.1	781.7	783.88	µg/L	783.88	ppb	19:12:28
2	Pb 220.353†	115.3	14.9	2.2736	µg/L	2.2736	ppb	19:12:28

2	S 181.975 Axial†	444.4	429.4	1373.6	µg/L	1373.6	ppb	19:12:28
2	Sb 206.836†	3.9	-1.4	0.0276	µg/L	0.0276	ppb	19:12:28
2	Se 196.026†	8.2	-2.7	8.25	µg/L	8.25	ppb	19:12:28
2	SiO2†	202179.5	203937.3	37534	µg/L	37534	ppb	19:12:08
2	Si 251.611†	586932.6	596909.4	17574	µg/L	17574	ppb	19:12:08
2	Sn 189.927†	-82.9	-82.5	-10.701	µg/L	-10.701	ppb	19:12:28
2	Ti 334.940†	-4944.9	-6617.2	0.5496	µg/L	0.5496	ppb	19:12:08
2	Tl 190.801†	-18.8	-2.9	-8.8234	µg/L	-8.8234	ppb	19:12:28
2	U 367.007†	1030.7	733.9	-19.660	µg/L	-19.660	ppb	19:12:08
2	V 292.402†	-330.8	-698.9	0.3264	µg/L	0.3264	ppb	19:12:08
2	Zn 213.857†	1482.1	965.4	7.4780	µg/L	7.4780	ppb	19:12:28
3	Sc RADIAL	22282.4	22282.4	101	%			19:11:28
3	Al 396.153Radial†	-104.7	-12.3	109.40	µg/L	109.40	ppb	19:11:28
3	Ca 317.933Radial†	376279.5	371800.3	253140	µg/L	253140	ppb	19:11:26
3	Fe 238.204 Radial†	10109.4	9963.1	33996	µg/L	33996	ppb	19:11:28
3	K 766.490 Radial†	16858.5	16009.2	19752	µg/L	19752	ppb	19:11:28
3	Mg 279.077 IEC†	10486.9	10360.0	73350	µg/L	73350	ppb	19:11:28
3	Na 589.592 Radial†	262669.2	259632.7	203030	µg/L	203030	ppb	19:11:26
3	Sr 421.552†	85324.8	84294.1	960.09	µg/L	960.09	ppb	19:11:26
3	Sc 361.383	1245439.9	1245439.9	98.855	%			19:12:31
3	Y 371.029	713565.6	713565.6	95.763	%			19:12:31
3	Ag 328.068†	1612.0	961.0	-0.6270	µg/L	-0.6270	ppb	19:12:31
3	As 188.979†	7.8	10.4	26.280	µg/L	26.280	ppb	19:12:51
3	B 249.677†	123530.7	124702.3	1371.6	µg/L	1371.6	ppb	19:12:31
3	Ba 233.527†	101561.4	102820.4	1445.0	µg/L	1445.0	ppb	19:12:31
3	Be 313.107†	-7008.7	-220.8	-0.0957	µg/L	-0.0957	ppb	19:12:31
3	Cd 226.502†	145.8	257.0	-0.4287	µg/L	-0.4287	ppb	19:12:51
3	Co 228.616†	-27.3	70.8	2.5692	µg/L	2.5692	ppb	19:12:51
3	Cr 267.716†	185.9	68.3	1.2691	µg/L	1.2691	ppb	19:12:51
3	Cu 324.752†	2422.3	-1411.5	-4.2348	µg/L	-4.2348	ppb	19:12:31
3	Mn 257.610†	353129.8	357015.2	1038.6	µg/L	1038.6	ppb	19:12:31
3	Mo 202.031†	-69.2	-61.2	-3.7405	µg/L	-3.7405	ppb	19:12:51
3	Ni 231.604†	259.5	305.3	8.9284	µg/L	8.9284	ppb	19:12:51
3	P 214.914†	705.4	773.6	775.42	µg/L	775.42	ppb	19:12:51
3	Pb 220.353†	117.2	16.1	2.5376	µg/L	2.5376	ppb	19:12:51
3	S 181.975 Axial†	448.3	430.5	1377.3	µg/L	1377.3	ppb	19:12:51
3	Sb 206.836†	5.6	0.3	1.1187	µg/L	1.1187	ppb	19:12:51
3	Se 196.026†	5.3	-5.7	4.09	µg/L	4.09	ppb	19:12:51
3	SiO2†	202765.5	203293.1	37415	µg/L	37415	ppb	19:12:31
3	Si 251.611†	588783.8	595191.1	17523	µg/L	17523	ppb	19:12:31
3	Sn 189.927†	-82.7	-81.8	-10.348	µg/L	-10.348	ppb	19:12:51
3	Ti 334.940†	-5275.9	-6921.8	0.0238	µg/L	0.0238	ppb	19:12:31
3	Tl 190.801†	-13.8	2.3	-2.5580	µg/L	-2.5580	ppb	19:12:51
3	U 367.007†	1037.6	734.6	-19.040	µg/L	-19.040	ppb	19:12:31
3	V 292.402†	-278.2	-643.7	0.6992	µg/L	0.6992	ppb	19:12:31
3	Zn 213.857†	1451.9	925.8	6.9834	µg/L	6.9834	ppb	19:12:51

Mean Data: 335304017|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1241780.3	98.564	%	0.2974				0.30%
Sc RADIAL	22387.2	102	%	0.4				0.43%
Y 371.029	711274.0	95.455	%	0.3191				0.33%
Ag 328.068†	970.5	-0.5499	µg/L	0.85906	-0.5499	ppb	0.85906	156.21%
Al 396.153Radial†	-15.2	104.55	µg/L	33.990	104.55	ppb	33.990	32.51%
As 188.979†	6.8	19.269	µg/L	6.1722	19.269	ppb	6.1722	32.03%
B 249.677†	124616.3	1370.6	µg/L	1.20	1370.6	ppb	1.20	0.09%
Ba 233.527†	102874.2	1445.7	µg/L	2.63	1445.7	ppb	2.63	0.18%
Be 313.107†	-284.2	-0.1232	µg/L	0.03782	-0.1232	ppb	0.03782	30.71%
Ca 317.933Radial†	371068.4	252640	µg/L	432.9	252640	ppb	432.9	0.17%
Cd 226.502†	267.2	-0.2705	µg/L	0.14703	-0.2705	ppb	0.14703	54.36%
Co 228.616†	70.2	2.5497	µg/L	0.06551	2.5497	ppb	0.06551	2.57%
Cr 267.716†	67.7	1.2608	µg/L	0.05246	1.2608	ppb	0.05246	4.16%
Cu 324.752†	-1410.5	-4.2285	µg/L	0.40128	-4.2285	ppb	0.40128	9.49%
Fe 238.204 Radial†	9964.7	34001	µg/L	102.9	34001	ppb	102.9	0.30%
K 766.490 Radial†	15983.8	19720	µg/L	57.0	19720	ppb	57.0	0.29%
Mg 279.077 IEC†	10332.3	73154	µg/L	399.9	73154	ppb	399.9	0.55%
Mn 257.610†	357376.3	1039.7	µg/L	1.57	1039.7	ppb	1.57	0.15%
Mo 202.031†	-62.1	-3.8513	µg/L	0.23605	-3.8513	ppb	0.23605	6.13%
Na 589.592 Radial†	259516.9	202940	µg/L	140.0	202940	ppb	140.0	0.07%

Ni 231.604†	306.5	8.9637	µg/L	0.19208	8.9637	ppb	0.19208	2.14%
P 214.914†	773.0	774.75	µg/L	9.483	774.75	ppb	9.483	1.22%
Pb 220.353†	12.2	1.7086	µg/L	1.21448	1.7086	ppb	1.21448	71.08%
S 181.975 Axial†	428.0	1369.0	µg/L	11.33	1369.0	ppb	11.33	0.83%
Sb 206.836†	-1.0	0.2708	µg/L	0.75625	0.2708	ppb	0.75625	279.31%
Se 196.026†	-3.7	6.87	µg/L	2.405	6.87	ppb	2.405	35.02%
SiO2†	203538.8	37460	µg/L	64.1	37460	ppb	64.1	0.17%
Si 251.611†	595881.5	17544	µg/L	26.7	17544	ppb	26.7	0.15%
Sn 189.927†	-81.2	-10.126	µg/L	0.7120	-10.126	ppb	0.7120	7.03%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	83846.4	954.99	µg/L	4.422	954.99	ppb	4.422	0.46%
Ti 334.940†	-6775.2	0.2719	µg/L	0.26414	0.2719	ppb	0.26414	97.14%
Tl 190.801†	0.0	-5.3130	µg/L	3.20025	-5.3130	ppb	3.20025	60.23%
U 367.007†	731.0	-19.960	µg/L	1.1013	-19.960	ppb	1.1013	5.52%
V 292.402†	-672.4	0.4957	µg/L	0.18870	0.4957	ppb	0.18870	38.07%
Zn 213.857†	939.8	7.1649	µg/L	0.27233	7.1649	ppb	0.27233	3.80%

Sequence No.: 23 **Autosampler Location: 319**
Sample ID: 335304018|1339675|1 **Date Collected: 11/6/2013 19:12:59**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304018|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22510.0	22510.0	102	%			19:13:31
1	Al 396.153Radial†	-146.3	-52.0	50.978	µg/L	50.978	ppb	19:13:31
1	Ca 317.933Radial†	395760.2	387098.8	263560	µg/L	263560	ppb	19:13:29
1	Fe 238.204 Radial†	10266.6	10015.9	34176	µg/L	34176	ppb	19:13:31
1	K 766.490 Radial†	17490.1	16458.7	20305	µg/L	20305	ppb	19:13:31
1	Mg 279.077 IEC†	10923.0	10681.9	75629	µg/L	75629	ppb	19:13:31
1	Na 589.592 Radial†	275696.9	269753.3	210940	µg/L	210940	ppb	19:13:29
1	Sr 421.552†	88719.6	86762.7	988.18	µg/L	988.18	ppb	19:13:29
1	Sc 361.383	1256468.9	1256468.9	99.730	%			19:13:57
1	Y 371.029	719288.9	719288.9	96.531	%			19:13:57
1	Ag 328.068†	1648.8	983.6	-0.7814	µg/L	-0.7814	ppb	19:13:57
1	As 188.979†	6.7	9.3	24.076	µg/L	24.076	ppb	19:14:17
1	B 249.677†	128380.7	128468.4	1416.2	µg/L	1416.2	ppb	19:13:57
1	Ba 233.527†	104565.8	104931.2	1474.6	µg/L	1474.6	ppb	19:13:57
1	Be 313.107†	-7232.0	-382.4	-0.1657	µg/L	-0.1657	ppb	19:13:57
1	Cd 226.502†	149.0	258.9	-0.4221	µg/L	-0.4221	ppb	19:14:17
1	Co 228.616†	-29.8	68.5	2.5163	µg/L	2.5163	ppb	19:14:17
1	Cr 267.716†	202.2	83.0	1.4869	µg/L	1.4869	ppb	19:14:17
1	Cu 324.752†	2452.6	-1402.6	-4.1215	µg/L	-4.1215	ppb	19:13:57
1	Mn 257.610†	367678.8	368467.9	1072.0	µg/L	1072.0	ppb	19:13:57
1	Mo 202.031†	-74.2	-65.6	-4.1570	µg/L	-4.1570	ppb	19:14:17
1	Ni 231.604†	282.3	325.9	9.5398	µg/L	9.5398	ppb	19:14:17
1	P 214.914†	691.0	753.0	753.27	µg/L	753.27	ppb	19:14:17
1	Pb 220.353†	125.6	23.5	4.0820	µg/L	4.0820	ppb	19:14:17
1	S 181.975 Axial†	456.8	435.1	1391.0	µg/L	1391.0	ppb	19:14:17
1	Sb 206.836†	4.2	-1.2	0.1710	µg/L	0.1710	ppb	19:14:17
1	Se 196.026†	3.9	-7.2	2.20	µg/L	2.20	ppb	19:14:17
1	SiO2†	209436.4	208181.6	38315	µg/L	38315	ppb	19:13:57
1	Si 251.611†	608182.1	609413.8	17942	µg/L	17942	ppb	19:13:57
1	Sn 189.927†	-82.2	-80.6	-8.8971	µg/L	-8.8971	ppb	19:14:17
1	Ti 334.940†	-5817.7	-7418.2	-0.3796	µg/L	-0.3796	ppb	19:13:57
1	Tl 190.801†	-14.8	1.4	-3.8563	µg/L	-3.8563	ppb	19:14:17
1	U 367.007†	1176.8	865.0	13.851	µg/L	13.851	ppb	19:13:57
1	V 292.402†	-343.6	-706.8	0.2975	µg/L	0.2975	ppb	19:13:57
1	Zn 213.857†	1268.8	729.3	4.4113	µg/L	4.4113	ppb	19:14:17
2	Sc RADIAL	22610.1	22610.1	103	%			19:13:35
2	Al 396.153Radial†	-112.3	-18.3	103.84	µg/L	103.84	ppb	19:13:35
2	Ca 317.933Radial†	393849.7	383524.2	261120	µg/L	261120	ppb	19:13:33
2	Fe 238.204 Radial†	10389.0	10090.7	34431	µg/L	34431	ppb	19:13:35
2	K 766.490 Radial†	17625.4	16514.7	20375	µg/L	20375	ppb	19:13:35
2	Mg 279.077 IEC†	11063.8	10771.8	76265	µg/L	76265	ppb	19:13:35
2	Na 589.592 Radial†	276896.8	269728.1	210920	µg/L	210920	ppb	19:13:33
2	Sr 421.552†	88526.1	86190.1	981.67	µg/L	981.67	ppb	19:13:33
2	Sc 361.383	1240095.6	1240095.6	98.431	%			19:14:20
2	Y 371.029	709711.7	709711.7	95.246	%			19:14:20
2	Ag 328.068†	1736.7	1094.6	0.0353	µg/L	0.0353	ppb	19:14:20
2	As 188.979†	1.8	4.3	14.381	µg/L	14.381	ppb	19:14:40
2	B 249.677†	126344.5	128099.4	1410.8	µg/L	1410.8	ppb	19:14:20
2	Ba 233.527†	103006.6	104731.5	1471.8	µg/L	1471.8	ppb	19:14:20
2	Be 313.107†	-7094.3	-338.3	-0.1466	µg/L	-0.1466	ppb	19:14:20
2	Cd 226.502†	151.8	263.7	-0.3817	µg/L	-0.3817	ppb	19:14:40
2	Co 228.616†	-27.5	70.5	2.5711	µg/L	2.5711	ppb	19:14:40
2	Cr 267.716†	217.2	100.9	1.8292	µg/L	1.8292	ppb	19:14:40
2	Cu 324.752†	2357.2	-1467.0	-4.5214	µg/L	-4.5214	ppb	19:14:20
2	Mn 257.610†	362110.4	367678.4	1069.6	µg/L	1069.6	ppb	19:14:20
2	Mo 202.031†	-74.4	-66.7	-4.2578	µg/L	-4.2578	ppb	19:14:40
2	Ni 231.604†	262.6	309.7	9.0554	µg/L	9.0554	ppb	19:14:40
2	P 214.914†	658.7	729.3	727.84	µg/L	727.84	ppb	19:14:40
2	Pb 220.353†	108.8	8.1	0.7850	µg/L	0.7850	ppb	19:14:40

2	S 181.975 Axial†	453.3	437.6	1399.6	µg/L	1399.6	ppb	19:14:40
2	Sb 206.836†	6.1	0.8	1.4316	µg/L	1.4316	ppb	19:14:40
2	Se 196.026†	17.6	6.8	21.3	µg/L	21.3	ppb	19:14:40
2	SiO2†	206297.0	207764.8	38238	µg/L	38238	ppb	19:14:20
2	Si 251.611†	599063.6	608201.6	17906	µg/L	17906	ppb	19:14:20
2	Sn 189.927†	-87.8	-87.4	-11.891	µg/L	-11.891	ppb	19:14:40
2	Ti 334.940†	-5823.4	-7501.0	-0.6589	µg/L	-0.6589	ppb	19:14:20
2	Tl 190.801†	-1.1	15.1	12.776	µg/L	12.776	ppb	19:14:40
2	U 367.007†	1107.6	810.2	-2.0656	µg/L	-2.0656	ppb	19:14:20
2	V 292.402†	-344.0	-711.8	0.2917	µg/L	0.2917	ppb	19:14:20
2	Zn 213.857†	1285.7	763.2	4.8099	µg/L	4.8099	ppb	19:14:40
3	Sc RADIAL	22526.3	22526.3	102	%			19:13:39
3	Al 396.153Radial†	-141.9	-47.6	59.315	µg/L	59.315	ppb	19:13:39
3	Ca 317.933Radial†	399696.5	390667.0	265990	µg/L	265990	ppb	19:13:37
3	Fe 238.204 Radial†	10345.9	10086.2	34416	µg/L	34416	ppb	19:13:39
3	K 766.490 Radial†	17596.6	16550.4	20417	µg/L	20417	ppb	19:13:39
3	Mg 279.077 IEC†	11060.1	10808.2	76523	µg/L	76523	ppb	19:13:39
3	Na 589.592 Radial†	280764.7	274512.6	214670	µg/L	214670	ppb	19:13:37
3	Sr 421.552†	89762.4	87719.4	999.08	µg/L	999.08	ppb	19:13:37
3	Sc 361.383	1255636.6	1255636.6	99.664	%			19:14:42
3	Y 371.029	718828.1	718828.1	96.469	%			19:14:42
3	Ag 328.068†	1692.0	1028.0	-0.5539	µg/L	-0.5539	ppb	19:14:42
3	As 188.979†	5.8	8.4	22.405	µg/L	22.405	ppb	19:15:02
3	B 249.677†	128368.7	128541.8	1416.2	µg/L	1416.2	ppb	19:14:42
3	Ba 233.527†	104857.7	105293.6	1479.7	µg/L	1479.7	ppb	19:14:42
3	Be 313.107†	-7213.3	-368.5	-0.1597	µg/L	-0.1597	ppb	19:14:42
3	Cd 226.502†	153.2	263.2	-0.3877	µg/L	-0.3877	ppb	19:15:02
3	Co 228.616†	-2.7	95.7	3.3184	µg/L	3.3184	ppb	19:15:02
3	Cr 267.716†	173.2	54.0	0.9519	µg/L	0.9519	ppb	19:15:02
3	Cu 324.752†	2522.3	-1331.1	-3.6019	µg/L	-3.6019	ppb	19:14:42
3	Mn 257.610†	368720.0	369757.0	1075.7	µg/L	1075.7	ppb	19:14:42
3	Mo 202.031†	-74.6	-66.0	-4.1738	µg/L	-4.1738	ppb	19:15:02
3	Ni 231.604†	266.4	310.2	9.0705	µg/L	9.0705	ppb	19:15:02
3	P 214.914†	674.2	736.5	735.47	µg/L	735.47	ppb	19:15:02
3	Pb 220.353†	124.0	22.0	3.7460	µg/L	3.7460	ppb	19:15:02
3	S 181.975 Axial†	448.8	427.4	1365.6	µg/L	1365.6	ppb	19:15:02
3	Sb 206.836†	1.2	-4.1	-1.6797	µg/L	-1.6797	ppb	19:15:02
3	Se 196.026†	11.5	0.4	12.7	µg/L	12.7	ppb	19:15:02
3	SiO2†	210044.4	208930.9	38453	µg/L	38453	ppb	19:14:42
3	Si 251.611†	609515.5	611156.0	17993	µg/L	17993	ppb	19:14:42
3	Sn 189.927†	-76.4	-74.8	-6.3343	µg/L	-6.3343	ppb	19:15:02
3	Ti 334.940†	-5918.8	-7523.5	-0.4539	µg/L	-0.4539	ppb	19:14:42
3	Tl 190.801†	-2.3	13.9	11.299	µg/L	11.299	ppb	19:15:02
3	U 367.007†	1191.3	880.3	16.357	µg/L	16.357	ppb	19:14:42
3	V 292.402†	-379.4	-743.0	0.0801	µg/L	0.0801	ppb	19:14:42
3	Zn 213.857†	1271.1	732.5	4.4136	µg/L	4.4136	ppb	19:15:02

Mean Data: 335304018|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1250733.7	99.275	%	0.7320				0.74%
Sc RADIAL	22548.8	102	%	0.2				0.24%
Y 371.029	715942.9	96.082	%	0.7249				0.75%
Ag 328.068†	1035.4	-0.4333	µg/L	0.42150	-0.4333	ppb	0.42150	97.27%
Al 396.153Radial†	-39.3	71.377	µg/L	28.4193	71.377	ppb	28.4193	39.82%
As 188.979†	7.3	20.287	µg/L	5.1830	20.287	ppb	5.1830	25.55%
B 249.677†	128369.9	1414.4	µg/L	3.13	1414.4	ppb	3.13	0.22%
Ba 233.527†	104985.4	1475.4	µg/L	4.01	1475.4	ppb	4.01	0.27%
Be 313.107†	-363.1	-0.1574	µg/L	0.00977	-0.1574	ppb	0.00977	6.21%
Ca 317.933Radial†	387096.7	263560	µg/L	2431.7	263560	ppb	2431.7	0.92%
Cd 226.502†	261.9	-0.3971	µg/L	0.02177	-0.3971	ppb	0.02177	5.48%
Co 228.616†	78.2	2.8020	µg/L	0.44811	2.8020	ppb	0.44811	15.99%
Cr 267.716†	79.3	1.4227	µg/L	0.44217	1.4227	ppb	0.44217	31.08%
Cu 324.752†	-1400.2	-4.0816	µg/L	0.46107	-4.0816	ppb	0.46107	11.30%
Fe 238.204 Radial†	10064.3	34341	µg/L	143.1	34341	ppb	143.1	0.42%
K 766.490 Radial†	16507.9	20366	µg/L	56.5	20366	ppb	56.5	0.28%
Mg 279.077 IEC†	10754.0	76139	µg/L	460.3	76139	ppb	460.3	0.60%
Mn 257.610†	368634.5	1072.4	µg/L	3.05	1072.4	ppb	3.05	0.28%
Mo 202.031†	-66.1	-4.1962	µg/L	0.05401	-4.1962	ppb	0.05401	1.29%
Na 589.592 Radial†	271331.4	212180	µg/L	2154.5	212180	ppb	2154.5	1.02%

Ni 231.604†	315.2	9.2219	µg/L	0.27538	9.2219	ppb	0.27538	2.99%
P 214.914†	739.6	738.86	µg/L	13.047	738.86	ppb	13.047	1.77%
Pb 220.353†	17.9	2.8710	µg/L	1.81431	2.8710	ppb	1.81431	63.19%
S 181.975 Axial†	433.4	1385.4	µg/L	17.69	1385.4	ppb	17.69	1.28%
Sb 206.836†	-1.5	-0.0257	µg/L	1.56498	-0.0257	ppb	1.56498	>999.9%
Se 196.026†	0.0	12.0	µg/L	9.54	12.0	ppb	9.54	79.26%
SiO2†	208292.4	38335	µg/L	108.7	38335	ppb	108.7	0.28%
Si 251.611†	609590.5	17947	µg/L	43.7	17947	ppb	43.7	0.24%
Sn 189.927†	-80.9	-9.0408	µg/L	2.78122	-9.0408	ppb	2.78122	30.76%
Sr 421.552†	86890.8	989.65	µg/L	8.800	989.65	ppb	8.800	0.89%
Ti 334.940†	-7480.9	-0.4975	µg/L	0.14462	-0.4975	ppb	0.14462	29.07%
Tl 190.801†	10.1	6.7396	µg/L	9.20593	6.7396	ppb	9.20593	136.59%
U 367.007†	851.8	9.3805	µg/L	9.99155	9.3805	ppb	9.99155	106.51%
V 292.402†	-720.5	0.2231	µg/L	0.12386	0.2231	ppb	0.12386	55.52%
Zn 213.857†	741.7	4.5449	µg/L	0.22949	4.5449	ppb	0.22949	5.05%

Sequence No.: 24
Sample ID: 335304019|1339675|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 320
Date Collected: 11/6/2013 19:15:10
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304019|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22333.1	22333.1	101	%			19:15:42
1	Al 396.153Radial†	1372.4	1444.4	2477.6	µg/L	2477.6	ppb	19:15:42
1	Ca 317.933Radial†	463094.0	456562.4	310850	µg/L	310850	ppb	19:15:40
1	Fe 238.204 Radial†	22447.5	22106.7	75431	µg/L	75431	ppb	19:15:42
1	K 766.490 Radial†	7315.8	6561.6	8080.1	µg/L	8080.1	ppb	19:15:42
1	Mg 279.077 IEC†	11807.2	11638.5	82408	µg/L	82408	ppb	19:15:42
1	Na 589.592 Radial†	193014.5	190359.3	148860	µg/L	148860	ppb	19:15:40
1	Sr 421.552†	62854.9	61945.9	704.58	µg/L	704.58	ppb	19:15:42
1	Sc 361.383	1260281.4	1260281.4	100.03	%			19:16:08
1	Y 371.029	743770.1	743770.1	99.817	%			19:16:08
1	Ag 328.068†	2074.3	1403.9	0.3200	µg/L	0.3200	ppb	19:16:08
1	As 188.979†	9.5	12.1	36.644	µg/L	36.644	ppb	19:16:28
1	B 249.677†	43381.6	43107.9	233.78	µg/L	233.78	ppb	19:16:08
1	Ba 233.527†	125334.3	125375.6	1761.6	µg/L	1761.6	ppb	19:16:08
1	Be 313.107†	-5795.7	1075.3	0.4661	µg/L	0.4661	ppb	19:16:08
1	Cd 226.502†	533.6	642.9	0.1945	µg/L	0.1945	ppb	19:16:28
1	Co 228.616†	465.6	563.8	16.843	µg/L	16.843	ppb	19:16:28
1	Cr 267.716†	474.1	354.2	7.5356	µg/L	7.5356	ppb	19:16:28
1	Cu 324.752†	2466.1	-1396.6	1.8275	µg/L	1.8275	ppb	19:16:08
1	Mn 257.610†	626025.1	625614.0	1822.2	µg/L	1822.2	ppb	19:16:08
1	Mo 202.031†	-121.7	-112.8	-8.5415	µg/L	-8.5415	ppb	19:16:28
1	Ni 231.604†	1319.7	1362.1	40.233	µg/L	40.233	ppb	19:16:28
1	P 214.914†	2073.8	2133.1	2162.8	µg/L	2162.8	ppb	19:16:28
1	Pb 220.353†	209.9	107.4	21.142	µg/L	21.142	ppb	19:16:28
1	S 181.975 Axial†	4742.1	4717.6	15398	µg/L	15398	ppb	19:16:28
1	Sb 206.836†	2.8	-2.6	0.5107	µg/L	0.5107	ppb	19:16:28
1	Se 196.026†	-4.0	-15.1	6.20	µg/L	6.20	ppb	19:16:28
1	SiO2†	267970.0	266060.6	48967	µg/L	48967	ppb	19:16:08
1	Si 251.611†	778104.8	777435.9	22893	µg/L	22893	ppb	19:16:08
1	Sn 189.927†	-96.8	-94.9	-10.371	µg/L	-10.371	ppb	19:16:28
1	Ti 334.940†	4786.6	3200.3	21.781	µg/L	21.781	ppb	19:16:08
1	Tl 190.801†	-13.0	3.3	-4.1862	µg/L	-4.1862	ppb	19:16:28
1	U 367.007†	1835.9	1520.2	-24.677	µg/L	-24.677	ppb	19:16:08
1	V 292.402†	699.0	336.4	13.991	µg/L	13.991	ppb	19:16:08
1	Zn 213.857†	7790.6	7245.2	83.122	µg/L	83.122	ppb	19:16:28
2	Sc RADIAL	21934.5	21934.5	99.6	%			19:15:46
2	Al 396.153Radial†	1371.0	1467.7	2521.4	µg/L	2521.4	ppb	19:15:46
2	Ca 317.933Radial†	473785.6	475594.7	323810	µg/L	323810	ppb	19:15:44
2	Fe 238.204 Radial†	22173.9	22234.3	75866	µg/L	75866	ppb	19:15:46
2	K 766.490 Radial†	7352.6	6729.7	8285.6	µg/L	8285.6	ppb	19:15:46
2	Mg 279.077 IEC†	11666.9	11709.2	82908	µg/L	82908	ppb	19:15:46
2	Na 589.592 Radial†	196975.7	197794.9	154670	µg/L	154670	ppb	19:15:44
2	Sr 421.552†	62018.8	62232.7	707.75	µg/L	707.75	ppb	19:15:46
2	Sc 361.383	1255193.8	1255193.8	99.629	%			19:16:30
2	Y 371.029	740549.3	740549.3	99.384	%			19:16:30
2	Ag 328.068†	1977.6	1315.2	-0.6157	µg/L	-0.6157	ppb	19:16:30
2	As 188.979†	10.2	12.7	38.069	µg/L	38.069	ppb	19:16:50
2	B 249.677†	42908.1	42808.4	228.43	µg/L	228.43	ppb	19:16:30
2	Ba 233.527†	124824.4	125371.7	1761.5	µg/L	1761.5	ppb	19:16:30
2	Be 313.107†	-5838.0	1009.4	0.4375	µg/L	0.4375	ppb	19:16:30
2	Cd 226.502†	528.1	639.6	0.0857	µg/L	0.0857	ppb	19:16:50
2	Co 228.616†	450.8	550.9	16.460	µg/L	16.460	ppb	19:16:50
2	Cr 267.716†	468.5	350.5	7.4724	µg/L	7.4724	ppb	19:16:50
2	Cu 324.752†	2613.7	-1238.4	2.9545	µg/L	2.9545	ppb	19:16:30
2	Mn 257.610†	622786.6	624900.0	1820.1	µg/L	1820.1	ppb	19:16:30
2	Mo 202.031†	-104.6	-96.1	-6.6291	µg/L	-6.6291	ppb	19:16:50
2	Ni 231.604†	1297.4	1345.1	39.722	µg/L	39.722	ppb	19:16:50
2	P 214.914†	2046.0	2113.7	2141.6	µg/L	2141.6	ppb	19:16:50
2	Pb 220.353†	198.2	96.5	18.790	µg/L	18.790	ppb	19:16:50

2	S 181.975 Axial†	4709.5	4704.1	15352	µg/L	15352	ppb	19:16:50
2	Sb 206.836†	4.6	-0.8	1.6748	µg/L	1.6748	ppb	19:16:50
2	Se 196.026†	-6.5	-17.6	2.96	µg/L	2.96	ppb	19:16:50
2	SiO2†	267104.7	266277.9	49007	µg/L	49007	ppb	19:16:30
2	Si 251.611†	774851.1	777322.9	22889	µg/L	22889	ppb	19:16:30
2	Sn 189.927†	-80.2	-78.7	-2.5881	µg/L	-2.5881	ppb	19:16:50
2	Ti 334.940†	4937.7	3371.3	22.778	µg/L	22.778	ppb	19:16:30
2	Tl 190.801†	-8.4	7.8	1.2301	µg/L	1.2301	ppb	19:16:50
2	U 367.007†	1867.7	1559.6	-18.329	µg/L	-18.329	ppb	19:16:30
2	V 292.402†	953.2	594.5	15.906	µg/L	15.906	ppb	19:16:30
2	Zn 213.857†	7754.4	7240.4	83.011	µg/L	83.011	ppb	19:16:50
3	Sc RADIAL	22524.2	22524.2	102	%			19:15:50
3	Al 396.153Radial†	1384.7	1445.0	2483.5	µg/L	2483.5	ppb	19:15:50
3	Ca 317.933Radial†	482097.0	471266.9	320870	µg/L	320870	ppb	19:15:48
3	Fe 238.204 Radial†	22795.2	22258.9	75950	µg/L	75950	ppb	19:15:50
3	K 766.490 Radial†	7405.7	6588.3	8111.6	µg/L	8111.6	ppb	19:15:50
3	Mg 279.077 IEC†	11886.4	11617.1	82257	µg/L	82257	ppb	19:15:50
3	Na 589.592 Radial†	199362.6	194950.9	152450	µg/L	152450	ppb	19:15:48
3	Sr 421.552†	63301.0	61856.1	703.47	µg/L	703.47	ppb	19:15:50
3	Sc 361.383	1240536.2	1240536.2	98.466	%			19:16:52
3	Y 371.029	732039.9	732039.9	98.242	%			19:16:52
3	Ag 328.068†	2050.9	1413.1	0.1354	µg/L	0.1354	ppb	19:16:52
3	As 188.979†	14.5	17.3	47.120	µg/L	47.120	ppb	19:17:12
3	B 249.677†	42825.5	43233.4	233.33	µg/L	233.33	ppb	19:16:52
3	Ba 233.527†	123734.7	125745.4	1766.8	µg/L	1766.8	ppb	19:16:52
3	Be 313.107†	-5684.6	1096.0	0.4750	µg/L	0.4750	ppb	19:16:52
3	Cd 226.502†	546.5	664.5	0.4649	µg/L	0.4649	ppb	19:17:12
3	Co 228.616†	467.7	573.4	17.124	µg/L	17.124	ppb	19:17:12
3	Cr 267.716†	483.0	370.8	7.8685	µg/L	7.8685	ppb	19:17:12
3	Cu 324.752†	2436.1	-1387.7	1.9503	µg/L	1.9503	ppb	19:16:52
3	Mn 257.610†	618386.8	627817.6	1828.6	µg/L	1828.6	ppb	19:16:52
3	Mo 202.031†	-94.7	-87.3	-5.6602	µg/L	-5.6602	ppb	19:17:12
3	Ni 231.604†	1305.1	1368.2	40.413	µg/L	40.413	ppb	19:17:12
3	P 214.914†	2047.6	2139.5	2168.9	µg/L	2168.9	ppb	19:17:12
3	Pb 220.353†	184.7	85.2	16.387	µg/L	16.387	ppb	19:17:12
3	S 181.975 Axial†	4746.8	4797.9	15660	µg/L	15660	ppb	19:17:12
3	Sb 206.836†	-0.4	-5.7	-1.4472	µg/L	-1.4472	ppb	19:17:12
3	Se 196.026†	-8.9	-20.2	-0.484	µg/L	-0.484	ppb	19:17:12
3	SiO2†	264705.9	267009.4	49142	µg/L	49142	ppb	19:16:52
3	Si 251.611†	768496.8	780059.0	22970	µg/L	22970	ppb	19:16:52
3	Sn 189.927†	-92.9	-92.5	-8.4892	µg/L	-8.4892	ppb	19:17:12
3	Ti 334.940†	5078.8	3573.2	23.015	µg/L	23.015	ppb	19:16:52
3	Tl 190.801†	-1.3	15.0	9.8876	µg/L	9.8876	ppb	19:17:12
3	U 367.007†	1751.3	1463.6	-44.583	µg/L	-44.583	ppb	19:16:52
3	V 292.402†	788.5	438.5	14.816	µg/L	14.816	ppb	19:16:52
3	Zn 213.857†	7799.0	7377.6	84.762	µg/L	84.762	ppb	19:17:12

Mean Data: 335304019|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1252003.8	99.376	%	0.8137				0.82%
Sc RADIAL	22263.9	101	%	1.4				1.35%
Y 371.029	738786.4	99.148	%	0.8134				0.82%
Ag 328.068†	1377.4	-0.0534	µg/L	0.49560	-0.0534	ppb	0.49560	927.28%
Al 396.153Radial†	1452.4	2494.2	µg/L	23.76	2494.2	ppb	23.76	0.95%
As 188.979†	14.0	40.611	µg/L	5.6818	40.611	ppb	5.6818	13.99%
B 249.677†	43049.9	231.85	µg/L	2.965	231.85	ppb	2.965	1.28%
Ba 233.527†	125497.6	1763.3	µg/L	3.01	1763.3	ppb	3.01	0.17%
Be 313.107†	1060.2	0.4595	µg/L	0.01960	0.4595	ppb	0.01960	4.26%
Ca 317.933Radial†	467808.0	318510	µg/L	6792.9	318510	ppb	6792.9	2.13%
Cd 226.502†	649.0	0.2484	µg/L	0.19523	0.2484	ppb	0.19523	78.60%
Co 228.616†	562.7	16.809	µg/L	0.3335	16.809	ppb	0.3335	1.98%
Cr 267.716†	358.5	7.6255	µg/L	0.21284	7.6255	ppb	0.21284	2.79%
Cu 324.752†	-1340.9	2.2441	µg/L	0.61828	2.2441	ppb	0.61828	27.55%
Fe 238.204 Radial†	22200.0	75749	µg/L	278.7	75749	ppb	278.7	0.37%
K 766.490 Radial†	6626.5	8159.1	µg/L	110.64	8159.1	ppb	110.64	1.36%
Mg 279.077 IEC†	11654.9	82524	µg/L	341.0	82524	ppb	341.0	0.41%
Mn 257.610†	626110.6	1823.6	µg/L	4.45	1823.6	ppb	4.45	0.24%
Mo 202.031†	-98.8	-6.9436	µg/L	1.46616	-6.9436	ppb	1.46616	21.12%
Na 589.592 Radial†	194368.4	151990	µg/L	2933.9	151990	ppb	2933.9	1.93%

Ni 231.604†	1358.5	40.123	µg/L	0.3583	40.123	ppb	0.3583	0.89%
P 214.914†	2128.8	2157.7	µg/L	14.33	2157.7	ppb	14.33	0.66%
Pb 220.353†	96.3	18.773	µg/L	2.3779	18.773	ppb	2.3779	12.67%
S 181.975 Axial†	4739.8	15470	µg/L	165.9	15470	ppb	165.9	1.07%
Sb 206.836†	-3.0	0.2461	µg/L	1.57772	0.2461	ppb	1.57772	641.13%
Se 196.026†	-17.7	2.89	µg/L	3.344	2.89	ppb	3.344	115.62%
SiO2†	266449.3	49039	µg/L	91.5	49039	ppb	91.5	0.19%
Si 251.611†	778272.6	22917	µg/L	45.6	22917	ppb	45.6	0.20%
Sn 189.927†	-88.7	-7.1493	µg/L	4.06062	-7.1493	ppb	4.06062	56.80%
Sr 421.552†	62011.6	705.27	µg/L	2.219	705.27	ppb	2.219	0.31%
Ti 334.940†	3381.6	22.524	µg/L	0.6550	22.524	ppb	0.6550	2.91%
Tl 190.801†	8.7	2.3105	µg/L	7.09880	2.3105	ppb	7.09880	307.24%
U 367.007†	1514.5	-29.197	µg/L	13.6981	-29.197	ppb	13.6981	46.92%
V 292.402†	456.5	14.904	µg/L	0.9605	14.904	ppb	0.9605	6.44%
Zn 213.857†	7287.7	83.632	µg/L	0.9806	83.632	ppb	0.9806	1.17%

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Sequence No.: 25 **Autosampler Location: 321**
Sample ID: 335304020|1339675|1 **Date Collected: 11/6/2013 19:17:21**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304020|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22193.9	22193.9	101	%			19:17:53
1	Al 396.153Radial†	-113.7	-21.7	103.26	µg/L	103.26	ppb	19:17:53
1	Ca 317.933Radial†	395601.5	392456.1	267210	µg/L	267210	ppb	19:17:51
1	Fe 238.204 Radial†	16298.6	16144.2	55087	µg/L	55087	ppb	19:17:53
1	K 766.490 Radial†	7612.7	6901.5	8490.9	µg/L	8490.9	ppb	19:17:53
1	Mg 279.077 IEC†	10014.9	9933.1	70331	µg/L	70331	ppb	19:17:53
1	Na 589.592 Radial†	204193.4	202645.2	158470	µg/L	158470	ppb	19:17:51
1	Sr 421.552†	57723.6	57243.0	651.24	µg/L	651.24	ppb	19:17:51
1	Sc 361.383	1238051.8	1238051.8	98.268	%			19:18:19
1	Y 371.029	709265.4	709265.4	95.186	%			19:18:19
1	Ag 328.068†	1722.3	1082.9	-0.4488	µg/L	-0.4488	ppb	19:18:19
1	As 188.979†	10.0	12.7	34.429	µg/L	34.429	ppb	19:18:39
1	B 249.677†	36807.7	37196.8	238.73	µg/L	238.73	ppb	19:18:19
1	Ba 233.527†	105253.1	107190.4	1506.1	µg/L	1506.1	ppb	19:18:19
1	Be 313.107†	-7348.9	-609.3	-0.2641	µg/L	-0.2641	ppb	19:18:19
1	Cd 226.502†	332.3	447.7	-0.2135	µg/L	-0.2135	ppb	19:18:39
1	Co 228.616†	-23.9	74.1	2.5157	µg/L	2.5157	ppb	19:18:39
1	Cr 267.716†	171.2	54.5	1.7853	µg/L	1.7853	ppb	19:18:39
1	Cu 324.752†	1878.9	-1949.8	-4.8550	µg/L	-4.8550	ppb	19:18:19
1	Mn 257.610†	328130.1	333706.7	971.30	µg/L	971.30	ppb	19:18:19
1	Mo 202.031†	-72.5	-65.0	-3.9144	µg/L	-3.9144	ppb	19:18:39
1	Ni 231.604†	164.2	209.9	5.9703	µg/L	5.9703	ppb	19:18:39
1	P 214.914†	306.3	371.8	321.19	µg/L	321.19	ppb	19:18:39
1	Pb 220.353†	117.2	16.8	2.1489	µg/L	2.1489	ppb	19:18:39
1	S 181.975 Axial†	4815.7	4877.6	15929	µg/L	15929	ppb	19:18:39
1	Sb 206.836†	0.7	-4.6	-1.3683	µg/L	-1.3683	ppb	19:18:39
1	Se 196.026†	2.0	-9.1	7.18	µg/L	7.18	ppb	19:18:39
1	SiO2†	230641.0	232883.7	42861	µg/L	42861	ppb	19:18:19
1	Si 251.611†	668841.3	680213.5	20028	µg/L	20028	ppb	19:18:19
1	Sn 189.927†	-92.1	-91.9	-13.135	µg/L	-13.135	ppb	19:18:39
1	Ti 334.940†	-5683.5	-7368.4	-0.0984	µg/L	-0.0984	ppb	19:18:19
1	Tl 190.801†	-6.3	9.8	6.6421	µg/L	6.6421	ppb	19:18:39
1	U 367.007†	1395.0	1104.6	-26.485	µg/L	-26.485	ppb	19:18:19
1	V 292.402†	-642.1	-1015.7	1.3509	µg/L	1.3509	ppb	19:18:19
1	Zn 213.857†	1582.8	1067.8	6.7716	µg/L	6.7716	ppb	19:18:39
2	Sc RADIAL	22845.6	22845.6	104	%			19:17:57
2	Al 396.153Radial†	-151.4	-54.8	46.526	µg/L	46.526	ppb	19:17:57
2	Ca 317.933Radial†	396551.2	382174.9	260210	µg/L	260210	ppb	19:17:55
2	Fe 238.204 Radial†	16687.6	16057.9	54792	µg/L	54792	ppb	19:17:57
2	K 766.490 Radial†	7619.7	6692.7	8234.2	µg/L	8234.2	ppb	19:17:57
2	Mg 279.077 IEC†	10242.0	9868.5	69874	µg/L	69874	ppb	19:17:57
2	Na 589.592 Radial†	204957.2	197602.3	154520	µg/L	154520	ppb	19:17:55
2	Sr 421.552†	57869.3	55749.7	634.25	µg/L	634.25	ppb	19:17:55
2	Sc 361.383	1255982.8	1255982.8	99.692	%			19:18:41
2	Y 371.029	719065.8	719065.8	96.501	%			19:18:41
2	Ag 328.068†	1857.2	1193.2	0.4403	µg/L	0.4403	ppb	19:18:41
2	As 188.979†	13.1	15.6	40.164	µg/L	40.164	ppb	19:19:01
2	B 249.677†	37412.7	37269.0	240.82	µg/L	240.82	ppb	19:18:41
2	Ba 233.527†	106850.9	107263.9	1507.2	µg/L	1507.2	ppb	19:18:41
2	Be 313.107†	-7234.3	-387.6	-0.1680	µg/L	-0.1680	ppb	19:18:41
2	Cd 226.502†	349.6	460.1	0.0199	µg/L	0.0199	ppb	19:19:01
2	Co 228.616†	-33.8	64.5	2.2393	µg/L	2.2393	ppb	19:19:01
2	Cr 267.716†	129.6	10.3	0.9453	µg/L	0.9453	ppb	19:19:01
2	Cu 324.752†	1930.7	-1925.2	-4.7174	µg/L	-4.7174	ppb	19:18:41
2	Mn 257.610†	333192.1	334017.2	972.22	µg/L	972.22	ppb	19:18:41
2	Mo 202.031†	-66.1	-57.5	-3.0913	µg/L	-3.0913	ppb	19:19:01
2	Ni 231.604†	165.7	209.1	5.9482	µg/L	5.9482	ppb	19:19:01
2	P 214.914†	317.7	378.7	328.90	µg/L	328.90	ppb	19:19:01
2	Pb 220.353†	110.3	8.2	0.2860	µg/L	0.2860	ppb	19:19:01

2	S 181.975 Axial†	4818.2	4810.2	15709	µg/L	15709	ppb	19:19:01
2	Sb 206.836†	1.0	-4.4	-1.1903	µg/L	-1.1903	ppb	19:19:01
2	Se 196.026†	-0.8	-11.9	3.24	µg/L	3.24	ppb	19:19:01
2	SiO2†	233533.3	232434.3	42778	µg/L	42778	ppb	19:18:41
2	Si 251.611†	677726.6	679409.4	20005	µg/L	20005	ppb	19:18:41
2	Sn 189.927†	-82.7	-81.2	-9.3898	µg/L	-9.3898	ppb	19:19:01
2	Ti 334.940†	-5747.3	-7349.8	-0.4502	µg/L	-0.4502	ppb	19:18:41
2	Tl 190.801†	-13.5	2.7	-1.9063	µg/L	-1.9063	ppb	19:19:01
2	U 367.007†	1543.3	1233.0	11.467	µg/L	11.467	ppb	19:18:41
2	V 292.402†	-718.0	-1082.5	0.8643	µg/L	0.8643	ppb	19:18:41
2	Zn 213.857†	1584.9	1046.9	6.5431	µg/L	6.5431	ppb	19:19:01
3	Sc RADIAL	22349.6	22349.6	101	%			19:18:01
3	Al 396.153Radial†	-92.5	-0.0	138.91	µg/L	138.91	ppb	19:18:01
3	Ca 317.933Radial†	401148.5	395188.3	269070	µg/L	269070	ppb	19:17:59
3	Fe 238.204 Radial†	16548.1	16277.5	55541	µg/L	55541	ppb	19:18:01
3	K 766.490 Radial†	7651.5	6887.1	8472.0	µg/L	8472.0	ppb	19:18:01
3	Mg 279.077 IEC†	10188.9	10035.3	71055	µg/L	71055	ppb	19:18:01
3	Na 589.592 Radial†	208577.9	205554.6	160740	µg/L	160740	ppb	19:17:59
3	Sr 421.552†	58529.7	57638.4	655.74	µg/L	655.74	ppb	19:17:59
3	Sc 361.383	1229830.5	1229830.5	97.616	%			19:19:04
3	Y 371.029	704362.0	704362.0	94.528	%			19:19:04
3	Ag 328.068†	1763.3	1136.7	-0.1546	µg/L	-0.1546	ppb	19:19:04
3	As 188.979†	11.7	14.6	38.167	µg/L	38.167	ppb	19:19:24
3	B 249.677†	36433.1	37063.5	235.42	µg/L	235.42	ppb	19:19:04
3	Ba 233.527†	104441.8	107075.2	1504.5	µg/L	1504.5	ppb	19:19:04
3	Be 313.107†	-7085.0	-388.9	-0.1686	µg/L	-0.1686	ppb	19:19:04
3	Cd 226.502†	325.4	442.9	-0.3474	µg/L	-0.3474	ppb	19:19:24
3	Co 228.616†	-11.5	86.6	2.8784	µg/L	2.8784	ppb	19:19:24
3	Cr 267.716†	123.9	7.2	0.9200	µg/L	0.9200	ppb	19:19:24
3	Cu 324.752†	1994.4	-1818.8	-3.9039	µg/L	-3.9039	ppb	19:19:04
3	Mn 257.610†	325205.1	332942.5	969.06	µg/L	969.06	ppb	19:19:04
3	Mo 202.031†	-68.7	-61.5	-3.4890	µg/L	-3.4890	ppb	19:19:24
3	Ni 231.604†	166.0	212.9	6.0584	µg/L	6.0584	ppb	19:19:24
3	P 214.914†	309.8	377.4	326.56	µg/L	326.56	ppb	19:19:24
3	Pb 220.353†	110.8	11.1	0.9023	µg/L	0.9023	ppb	19:19:24
3	S 181.975 Axial†	4772.9	4866.5	15893	µg/L	15893	ppb	19:19:24
3	Sb 206.836†	4.8	-0.4	1.3480	µg/L	1.3480	ppb	19:19:24
3	Se 196.026†	-0.6	-11.7	3.73	µg/L	3.73	ppb	19:19:24
3	SiO2†	228389.0	232145.8	42725	µg/L	42725	ppb	19:19:04
3	Si 251.611†	663075.1	678856.5	19989	µg/L	19989	ppb	19:19:04
3	Sn 189.927†	-79.3	-79.4	-7.8730	µg/L	-7.8730	ppb	19:19:24
3	Ti 334.940†	-5288.2	-7002.1	0.6729	µg/L	0.6729	ppb	19:19:04
3	Tl 190.801†	-16.0	-0.1	-5.4700	µg/L	-5.4700	ppb	19:19:24
3	U 367.007†	1428.4	1148.3	-17.142	µg/L	-17.142	ppb	19:19:04
3	V 292.402†	-758.0	-1138.8	0.5618	µg/L	0.5618	ppb	19:19:04
3	Zn 213.857†	1562.7	1057.9	6.5859	µg/L	6.5859	ppb	19:19:24

Mean Data: 335304020|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1241288.4	98.525	%	1.0615				1.08%
Sc RADIAL	22463.0	102	%	1.5				1.51%
Y 371.029	710897.7	95.405	%	1.0047				1.05%
Ag 328.068†	1137.6	-0.0543	µg/L	0.45295	-0.0543	ppb	0.45295	833.43%
Al 396.153Radial†	-25.5	96.232	µg/L	46.5897	96.232	ppb	46.5897	48.41%
As 188.979†	14.3	37.587	µg/L	2.9110	37.587	ppb	2.9110	7.74%
B 249.677†	37176.4	238.32	µg/L	2.724	238.32	ppb	2.724	1.14%
Ba 233.527†	107176.5	1505.9	µg/L	1.34	1505.9	ppb	1.34	0.09%
Be 313.107†	-461.9	-0.2002	µg/L	0.05532	-0.2002	ppb	0.05532	27.63%
Ca 317.933Radial†	389939.8	265490	µg/L	4672.1	265490	ppb	4672.1	1.76%
Cd 226.502†	450.2	-0.1803	µg/L	0.18587	-0.1803	ppb	0.18587	103.07%
Co 228.616†	75.1	2.5445	µg/L	0.32054	2.5445	ppb	0.32054	12.60%
Cr 267.716†	24.0	1.2169	µg/L	0.49242	1.2169	ppb	0.49242	40.47%
Cu 324.752†	-1897.9	-4.4921	µg/L	0.51403	-4.4921	ppb	0.51403	11.44%
Fe 238.204 Radial†	16159.9	55140	µg/L	377.4	55140	ppb	377.4	0.68%
K 766.490 Radial†	6827.1	8399.0	µg/L	143.06	8399.0	ppb	143.06	1.70%
Mg 279.077 IEC†	9945.7	70420	µg/L	595.5	70420	ppb	595.5	0.85%
Mn 257.610†	333555.5	970.86	µg/L	1.626	970.86	ppb	1.626	0.17%
Mo 202.031†	-61.3	-3.4982	µg/L	0.41167	-3.4982	ppb	0.41167	11.77%
Na 589.592 Radial†	201934.0	157910	µg/L	3146.4	157910	ppb	3146.4	1.99%

Ni 231.604†	210.6	5.9923	µg/L	0.05833	5.9923	ppb	0.05833	0.97%
P 214.914†	376.0	325.55	µg/L	3.956	325.55	ppb	3.956	1.22%
Pb 220.353†	12.0	1.1124	µg/L	0.94909	1.1124	ppb	0.94909	85.32%
S 181.975 Axial†	4851.4	15844	µg/L	118.0	15844	ppb	118.0	0.74%
Sb 206.836†	-3.1	-0.4035	µg/L	1.51946	-0.4035	ppb	1.51946	376.55%
Se 196.026†	-10.9	4.72	µg/L	2.148	4.72	ppb	2.148	45.53%
SiO2†	232487.9	42788	µg/L	68.5	42788	ppb	68.5	0.16%
Si 251.611†	679493.2	20007	µg/L	20.1	20007	ppb	20.1	0.10%
Sn 189.927†	-84.2	-10.133	µg/L	2.7087	-10.133	ppb	2.7087	26.73%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	56877.0	647.08	µg/L	11.332	647.08	ppb	11.332	1.75%
Ti 334.940†	-7240.1	0.0415	µg/L	0.57446	0.0415	ppb	0.57446	>999.9%
Tl 190.801†	4.1	-0.2447	µg/L	6.22461	-0.2447	ppb	6.22461	>999.9%
U 367.007†	1162.0	-10.720	µg/L	19.7742	-10.720	ppb	19.7742	184.46%
V 292.402†	-1079.0	0.9257	µg/L	0.39813	0.9257	ppb	0.39813	43.01%
Zn 213.857†	1057.5	6.6335	µg/L	0.12147	6.6335	ppb	0.12147	1.83%

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Sequence No.: 26 **Autosampler Location: 322**
Sample ID: 335304021|1339675|1 **Date Collected: 11/6/2013 19:19:32**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304021|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22757.5	22757.5	103	%			19:20:04
1	Al 396.153Radial†	-27.0	65.1	246.06	µg/L	246.06	ppb	19:20:04
1	Ca 317.933Radial†	425626.0	411788.9	280370	µg/L	280370	ppb	19:20:02
1	Fe 238.204 Radial†	6623.3	6381.1	21773	µg/L	21773	ppb	19:20:04
1	K 766.490 Radial†	14718.9	13590.9	16757	µg/L	16757	ppb	19:20:04
1	Mg 279.077 IEC†	11914.2	11524.8	81595	µg/L	81595	ppb	19:20:04
1	Na 589.592 Radial†	253716.6	245550.2	192020	µg/L	192020	ppb	19:20:02
1	Sr 421.552†	88904.5	85997.8	979.32	µg/L	979.32	ppb	19:20:02
1	Sc 361.383	1260937.0	1260937.0	100.08	%			19:20:30
1	Y 371.029	722929.2	722929.2	97.020	%			19:20:30
1	Ag 328.068†	1723.1	1051.9	-0.5804	µg/L	-0.5804	ppb	19:20:30
1	As 188.979†	-6.5	-3.9	-4.0406	µg/L	-4.0406	ppb	19:20:50
1	B 249.677†	88183.9	87849.6	973.29	µg/L	973.29	ppb	19:20:30
1	Ba 233.527†	84484.7	84495.6	1187.5	µg/L	1187.5	ppb	19:20:30
1	Be 313.107†	-7146.3	-271.1	-0.1175	µg/L	-0.1175	ppb	19:20:30
1	Cd 226.502†	47.5	157.0	-0.3903	µg/L	-0.3903	ppb	19:20:50
1	Co 228.616†	-76.1	22.4	1.1058	µg/L	1.1058	ppb	19:20:50
1	Cr 267.716†	211.9	92.0	1.3916	µg/L	1.3916	ppb	19:20:50
1	Cu 324.752†	2763.9	-1100.3	-3.8411	µg/L	-3.8411	ppb	19:20:30
1	Mn 257.610†	164239.6	163895.0	475.16	µg/L	475.16	ppb	19:20:30
1	Mo 202.031†	-103.0	-94.1	-7.3849	µg/L	-7.3849	ppb	19:20:50
1	Ni 231.604†	345.5	388.0	11.459	µg/L	11.459	ppb	19:20:50
1	P 214.914†	606.8	666.4	677.97	µg/L	677.97	ppb	19:20:50
1	Pb 220.353†	138.3	35.7	7.0364	µg/L	7.0364	ppb	19:20:50
1	S 181.975 Axial†	1691.6	1667.3	5423.6	µg/L	5423.6	ppb	19:20:50
1	Sb 206.836†	-0.8	-6.1	-3.3433	µg/L	-3.3433	ppb	19:20:50
1	Se 196.026†	12.6	1.4	9.42	µg/L	9.42	ppb	19:20:50
1	SiO2†	205503.4	203507.8	37455	µg/L	37455	ppb	19:20:30
1	Si 251.611†	596823.9	595904.4	17543	µg/L	17543	ppb	19:20:30
1	Sn 189.927†	-82.8	-80.9	-7.5243	µg/L	-7.5243	ppb	19:20:50
1	Ti 334.940†	-4210.4	-5791.6	3.5512	µg/L	3.5512	ppb	19:20:30
1	Tl 190.801†	-6.3	9.9	8.0609	µg/L	8.0609	ppb	19:20:50
1	U 367.007†	886.8	571.0	-6.4281	µg/L	-6.4281	ppb	19:20:30
1	V 292.402†	86.7	-275.7	1.3554	µg/L	1.3554	ppb	19:20:30
1	Zn 213.857†	1538.9	994.6	8.9080	µg/L	8.9080	ppb	19:20:50
2	Sc RADIAL	22718.1	22718.1	103	%			19:20:08
2	Al 396.153Radial†	-8.3	83.2	277.52	µg/L	277.52	ppb	19:20:08
2	Ca 317.933Radial†	432255.1	418929.1	285230	µg/L	285230	ppb	19:20:06
2	Fe 238.204 Radial†	6693.1	6459.9	22042	µg/L	22042	ppb	19:20:08
2	K 766.490 Radial†	14784.3	13679.0	16865	µg/L	16865	ppb	19:20:08
2	Mg 279.077 IEC†	12048.7	11675.3	82660	µg/L	82660	ppb	19:20:08
2	Na 589.592 Radial†	256140.0	248325.1	194190	µg/L	194190	ppb	19:20:06
2	Sr 421.552†	90343.0	87541.4	996.90	µg/L	996.90	ppb	19:20:06
2	Sc 361.383	1254895.6	1254895.6	99.605	%			19:20:52
2	Y 371.029	719049.4	719049.4	96.499	%			19:20:52
2	Ag 328.068†	1998.7	1336.9	1.2047	µg/L	1.2047	ppb	19:20:52
2	As 188.979†	-6.0	-3.5	-3.0658	µg/L	-3.0658	ppb	19:21:12
2	B 249.677†	88388.4	88479.1	979.84	µg/L	979.84	ppb	19:20:52
2	Ba 233.527†	84099.7	84515.4	1187.8	µg/L	1187.8	ppb	19:20:52
2	Be 313.107†	-7164.2	-323.5	-0.1402	µg/L	-0.1402	ppb	19:20:52
2	Cd 226.502†	64.1	173.8	-0.1622	µg/L	-0.1622	ppb	19:21:12
2	Co 228.616†	-69.8	28.3	1.2800	µg/L	1.2800	ppb	19:21:12
2	Cr 267.716†	227.2	108.4	1.6991	µg/L	1.6991	ppb	19:21:12
2	Cu 324.752†	2865.1	-985.4	-3.0346	µg/L	-3.0346	ppb	19:20:52
2	Mn 257.610†	163758.5	164201.9	476.02	µg/L	476.02	ppb	19:20:52
2	Mo 202.031†	-89.1	-80.7	-5.8218	µg/L	-5.8218	ppb	19:21:12
2	Ni 231.604†	349.7	393.9	11.633	µg/L	11.633	ppb	19:21:12
2	P 214.914†	621.7	684.2	696.55	µg/L	696.55	ppb	19:21:12
2	Pb 220.353†	116.7	14.7	2.5307	µg/L	2.5307	ppb	19:21:12

2	S 181.975 Axial†	1696.0	1679.8	5464.1	µg/L	5464.1	ppb	19:21:12
2	Sb 206.836†	12.7	7.4	5.2116	µg/L	5.2116	ppb	19:21:12
2	Se 196.026†	21.5	10.5	21.9	µg/L	21.9	ppb	19:21:12
2	SiO2†	205088.9	204080.1	37560	µg/L	37560	ppb	19:20:52
2	Si 251.611†	595616.4	597562.9	17592	µg/L	17592	ppb	19:20:52
2	Sn 189.927†	-85.4	-83.9	-8.3072	µg/L	-8.3072	ppb	19:21:12
2	Ti 334.940†	-4155.9	-5757.1	3.8734	µg/L	3.8734	ppb	19:20:52
2	Tl 190.801†	-11.2	5.0	2.0705	µg/L	2.0705	ppb	19:21:12
2	U 367.007†	839.0	527.3	-20.665	µg/L	-20.665	ppb	19:20:52
2	V 292.402†	-48.6	-411.1	0.4537	µg/L	0.4537	ppb	19:20:52
2	Zn 213.857†	1549.4	1012.6	9.0887	µg/L	9.0887	ppb	19:21:12
3	Sc RADIAL	22804.4	22804.4	104	%			19:20:12
3	Al 396.153Radial†	-36.1	56.3	232.92	µg/L	232.92	ppb	19:20:12
3	Ca 317.933Radial†	429215.6	414407.9	282150	µg/L	282150	ppb	19:20:10
3	Fe 238.204 Radial†	6705.8	6447.6	22000	µg/L	22000	ppb	19:20:12
3	K 766.490 Radial†	14883.9	13721.0	16918	µg/L	16918	ppb	19:20:12
3	Mg 279.077 IEC†	12051.0	11633.3	82363	µg/L	82363	ppb	19:20:12
3	Na 589.592 Radial†	254122.5	245437.1	191930	µg/L	191930	ppb	19:20:10
3	Sr 421.552†	89772.9	86659.3	986.86	µg/L	986.86	ppb	19:20:10
3	Sc 361.383	1247969.7	1247969.7	99.056	%			19:21:15
3	Y 371.029	715490.2	715490.2	96.021	%			19:21:15
3	Ag 328.068†	1741.3	1088.2	-0.3847	µg/L	-0.3847	ppb	19:21:15
3	As 188.979†	-4.4	-1.9	-0.0812	µg/L	-0.0812	ppb	19:21:35
3	B 249.677†	87930.2	88509.0	980.34	µg/L	980.34	ppb	19:21:15
3	Ba 233.527†	83683.3	84563.6	1188.5	µg/L	1188.5	ppb	19:21:15
3	Be 313.107†	-7058.7	-256.9	-0.1113	µg/L	-0.1113	ppb	19:21:15
3	Cd 226.502†	84.1	194.4	0.1647	µg/L	0.1647	ppb	19:21:35
3	Co 228.616†	-84.4	13.2	0.8342	µg/L	0.8342	ppb	19:21:35
3	Cr 267.716†	182.1	64.1	0.8829	µg/L	0.8829	ppb	19:21:35
3	Cu 324.752†	2869.9	-964.6	-2.8984	µg/L	-2.8984	ppb	19:21:15
3	Mn 257.610†	163014.6	164363.5	476.51	µg/L	476.51	ppb	19:21:15
3	Mo 202.031†	-94.4	-86.5	-6.4908	µg/L	-6.4908	ppb	19:21:35
3	Ni 231.604†	343.9	390.0	11.516	µg/L	11.516	ppb	19:21:35
3	P 214.914†	613.7	679.6	691.69	µg/L	691.69	ppb	19:21:35
3	Pb 220.353†	102.0	0.5	-0.5151	µg/L	-0.5151	ppb	19:21:35
3	S 181.975 Axial†	1701.8	1695.1	5514.3	µg/L	5514.3	ppb	19:21:35
3	Sb 206.836†	-0.9	-6.3	-3.4317	µg/L	-3.4317	ppb	19:21:35
3	Se 196.026†	11.9	0.9	8.74	µg/L	8.74	ppb	19:21:35
3	SiO2†	204240.2	204366.1	37613	µg/L	37613	ppb	19:21:15
3	Si 251.611†	592443.8	597678.7	17595	µg/L	17595	ppb	19:21:15
3	Sn 189.927†	-83.0	-81.9	-7.8013	µg/L	-7.8013	ppb	19:21:35
3	Ti 334.940†	-4352.0	-5978.2	3.2958	µg/L	3.2958	ppb	19:21:15
3	Tl 190.801†	-11.5	4.6	1.6006	µg/L	1.6006	ppb	19:21:35
3	U 367.007†	865.1	558.3	-11.398	µg/L	-11.398	ppb	19:21:15
3	V 292.402†	-17.7	-380.2	0.6605	µg/L	0.6605	ppb	19:21:15
3	Zn 213.857†	1555.0	1026.9	9.2814	µg/L	9.2814	ppb	19:21:35

Mean Data: 335304021|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1254600.8	99.582	%	0.5150				0.52%
Sc RADIAL	22760.0	103	%	0.2				0.19%
Y 371.029	719156.3	96.513	%	0.4993				0.52%
Ag 328.068†	1159.0	0.0799	µg/L	0.97902	0.0799	ppb	0.97902	>999.9%
Al 396.153Radial†	68.2	252.17	µg/L	22.916	252.17	ppb	22.916	9.09%
As 188.979†	-3.1	-2.3959	µg/L	2.06294	-2.3959	ppb	2.06294	86.10%
B 249.677†	88279.2	977.82	µg/L	3.936	977.82	ppb	3.936	0.40%
Ba 233.527†	84524.9	1187.9	µg/L	0.49	1187.9	ppb	0.49	0.04%
Be 313.107†	-283.8	-0.1230	µg/L	0.01520	-0.1230	ppb	0.01520	12.36%
Ca 317.933Radial†	415042.0	282580	µg/L	2459.3	282580	ppb	2459.3	0.87%
Cd 226.502†	175.1	-0.1293	µg/L	0.27895	-0.1293	ppb	0.27895	215.80%
Co 228.616†	21.3	1.0733	µg/L	0.22465	1.0733	ppb	0.22465	20.93%
Cr 267.716†	88.2	1.3245	µg/L	0.41223	1.3245	ppb	0.41223	31.12%
Cu 324.752†	-1016.7	-3.2580	µg/L	0.50952	-3.2580	ppb	0.50952	15.64%
Fe 238.204 Radial†	6429.6	21939	µg/L	144.6	21939	ppb	144.6	0.66%
K 766.490 Radial†	13663.6	16847	µg/L	82.1	16847	ppb	82.1	0.49%
Mg 279.077 IEC†	11611.1	82206	µg/L	549.6	82206	ppb	549.6	0.67%
Mn 257.610†	164153.5	475.90	µg/L	0.680	475.90	ppb	0.680	0.14%
Mo 202.031†	-87.1	-6.5658	µg/L	0.78425	-6.5658	ppb	0.78425	11.94%
Na 589.592 Radial†	246437.4	192710	µg/L	1279.1	192710	ppb	1279.1	0.66%

Ni 231.604†	390.6	11.536	µg/L	0.0889	11.536	ppb	0.0889	0.77%
P 214.914†	676.7	688.74	µg/L	9.635	688.74	ppb	9.635	1.40%
Pb 220.353†	17.0	3.0173	µg/L	3.79917	3.0173	ppb	3.79917	125.91%
S 181.975 Axial†	1680.7	5467.3	µg/L	45.45	5467.3	ppb	45.45	0.83%
Sb 206.836†	-1.7	-0.5211	µg/L	4.96490	-0.5211	ppb	4.96490	952.73%
Se 196.026†	4.3	13.3	µg/L	7.39	13.3	ppb	7.39	55.40%
SiO2†	203984.7	37542	µg/L	80.4	37542	ppb	80.4	0.21%
Si 251.611†	597048.6	17577	µg/L	29.2	17577	ppb	29.2	0.17%
Sn 189.927†	-82.2	-7.8776	µg/L	0.39698	-7.8776	ppb	0.39698	5.04%
Sr 421.552†	86732.8	987.69	µg/L	8.819	987.69	ppb	8.819	0.89%
Ti 334.940†	-5842.3	3.5735	µg/L	0.28943	3.5735	ppb	0.28943	8.10%
Tl 190.801†	6.5	3.9107	µg/L	3.60186	3.9107	ppb	3.60186	92.10%
U 367.007†	552.2	-12.830	µg/L	7.2256	-12.830	ppb	7.2256	56.32%
V 292.402†	-355.6	0.8232	µg/L	0.47232	0.8232	ppb	0.47232	57.37%
Zn 213.857†	1011.4	9.0927	µg/L	0.18672	9.0927	ppb	0.18672	2.05%

Sequence No.: 27
Sample ID: 335304022|1339675|1
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 323
Date Collected: 11/6/2013 19:21:43
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304022|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21905.2	21905.2	99.5	%			19:22:15
1	Al 396.153Radial†	-129.4	-39.0	81.267	µg/L	81.267	ppb	19:22:15
1	Ca 317.933Radial†	415733.1	417868.2	284510	µg/L	284510	ppb	19:22:13
1	Fe 238.204 Radial†	6049.3	6053.4	20655	µg/L	20655	ppb	19:22:15
1	K 766.490 Radial†	13885.8	13307.5	16403	µg/L	16403	ppb	19:22:15
1	Mg 279.077 IEC†	11299.2	11355.2	80393	µg/L	80393	ppb	19:22:15
1	Na 589.592 Radial†	253514.4	254899.4	199330	µg/L	199330	ppb	19:22:13
1	Sr 421.552†	86105.8	86531.4	985.38	µg/L	985.38	ppb	19:22:13
1	Sc 361.383	1236879.9	1236879.9	98.175	%			19:22:41
1	Y 371.029	708259.2	708259.2	95.051	%			19:22:41
1	Ag 328.068†	1683.4	1045.0	-0.7249	µg/L	-0.7249	ppb	19:22:41
1	As 188.979†	-4.1	-1.6	0.2586	µg/L	0.2586	ppb	19:23:01
1	B 249.677†	86032.5	87371.9	971.87	µg/L	971.87	ppb	19:22:41
1	Ba 233.527†	85102.0	86766.2	1219.4	µg/L	1219.4	ppb	19:22:41
1	Be 313.107†	-7103.2	-366.1	-0.1587	µg/L	-0.1587	ppb	19:22:41
1	Cd 226.502†	40.9	151.2	-0.3357	µg/L	-0.3357	ppb	19:23:01
1	Co 228.616†	-57.4	40.0	1.6589	µg/L	1.6589	ppb	19:23:01
1	Cr 267.716†	179.7	63.3	0.8649	µg/L	0.8649	ppb	19:23:01
1	Cu 324.752†	2529.7	-1285.1	-5.2448	µg/L	-5.2448	ppb	19:22:41
1	Mn 257.610†	137726.8	140081.1	405.77	µg/L	405.77	ppb	19:22:41
1	Mo 202.031†	-93.7	-86.6	-6.5962	µg/L	-6.5962	ppb	19:23:01
1	Ni 231.604†	250.1	297.6	8.7681	µg/L	8.7681	ppb	19:23:01
1	P 214.914†	548.0	618.2	628.33	µg/L	628.33	ppb	19:23:01
1	Pb 220.353†	104.2	3.7	0.1850	µg/L	0.1850	ppb	19:23:01
1	S 181.975 Axial†	1424.5	1428.0	4640.3	µg/L	4640.3	ppb	19:23:01
1	Sb 206.836†	7.7	2.5	2.0805	µg/L	2.0805	ppb	19:23:01
1	Se 196.026†	14.4	3.6	11.9	µg/L	11.9	ppb	19:23:01
1	SiO2†	202279.9	204218.0	37585	µg/L	37585	ppb	19:22:41
1	Si 251.611†	586784.7	597276.8	17583	µg/L	17583	ppb	19:22:41
1	Sn 189.927†	-83.5	-83.2	-8.1116	µg/L	-8.1116	ppb	19:23:01
1	Ti 334.940†	-6179.4	-7879.0	-0.1088	µg/L	-0.1088	ppb	19:22:41
1	Tl 190.801†	-14.5	1.5	-2.0633	µg/L	-2.0633	ppb	19:23:01
1	U 367.007†	849.2	549.9	-7.1255	µg/L	-7.1255	ppb	19:22:41
1	V 292.402†	-160.7	-526.0	-0.5718	µg/L	-0.5718	ppb	19:22:41
1	Zn 213.857†	1080.7	557.8	3.4841	µg/L	3.4841	ppb	19:23:01
2	Sc RADIAL	22155.6	22155.6	101	%			19:22:19
2	Al 396.153Radial†	-148.2	-56.2	48.496	µg/L	48.496	ppb	19:22:19
2	Ca 317.933Radial†	405441.6	402915.5	274320	µg/L	274320	ppb	19:22:17
2	Fe 238.204 Radial†	6196.4	6130.9	20919	µg/L	20919	ppb	19:22:19
2	K 766.490 Radial†	14274.4	13536.1	16688	µg/L	16688	ppb	19:22:19
2	Mg 279.077 IEC†	11585.7	11511.6	81501	µg/L	81501	ppb	19:22:19
2	Na 589.592 Radial†	250267.5	248791.9	194550	µg/L	194550	ppb	19:22:17
2	Sr 421.552†	84700.6	84156.4	958.35	µg/L	958.35	ppb	19:22:17
2	Sc 361.383	1245538.7	1245538.7	98.863	%			19:23:03
2	Y 371.029	713011.1	713011.1	95.689	%			19:23:03
2	Ag 328.068†	1702.8	1052.7	-0.4122	µg/L	-0.4122	ppb	19:23:03
2	As 188.979†	-4.2	-1.7	0.1797	µg/L	0.1797	ppb	19:23:23
2	B 249.677†	87085.7	87828.1	976.28	µg/L	976.28	ppb	19:23:03
2	Ba 233.527†	86056.4	87128.9	1224.5	µg/L	1224.5	ppb	19:23:03
2	Be 313.107†	-7170.6	-384.0	-0.1664	µg/L	-0.1664	ppb	19:23:03
2	Cd 226.502†	27.3	137.1	-0.5912	µg/L	-0.5912	ppb	19:23:23
2	Co 228.616†	-48.3	49.5	1.9410	µg/L	1.9410	ppb	19:23:23
2	Cr 267.716†	184.8	67.2	0.9327	µg/L	0.9327	ppb	19:23:23
2	Cu 324.752†	2617.9	-1213.8	-4.7243	µg/L	-4.7243	ppb	19:23:03
2	Mn 257.610†	139048.3	140442.6	406.79	µg/L	406.79	ppb	19:23:03
2	Mo 202.031†	-83.0	-75.1	-5.2593	µg/L	-5.2593	ppb	19:23:23
2	Ni 231.604†	244.3	290.0	8.5400	µg/L	8.5400	ppb	19:23:23
2	P 214.914†	555.1	621.6	631.55	µg/L	631.55	ppb	19:23:23
2	Pb 220.353†	118.6	17.5	3.1437	µg/L	3.1437	ppb	19:23:23

2	S 181.975 Axial†	1425.6	1419.1	4611.8	µg/L	4611.8	ppb	19:23:23
2	Sb 206.836†	5.8	0.5	0.8423	µg/L	0.8423	ppb	19:23:23
2	Se 196.026†	9.8	-1.2	5.55	µg/L	5.55	ppb	19:23:23
2	SiO2†	204197.6	204725.4	37679	µg/L	37679	ppb	19:23:03
2	Si 251.611†	592499.2	598902.0	17631	µg/L	17631	ppb	19:23:03
2	Sn 189.927†	-83.8	-82.9	-8.9152	µg/L	-8.9152	ppb	19:23:23
2	Ti 334.940†	-6099.5	-7754.4	-0.4236	µg/L	-0.4236	ppb	19:23:03
2	Tl 190.801†	-11.5	4.6	1.8170	µg/L	1.8170	ppb	19:23:23
2	U 367.007†	862.5	557.4	-4.6950	µg/L	-4.6950	ppb	19:23:03
2	V 292.402†	-163.7	-527.9	-0.5280	µg/L	-0.5280	ppb	19:23:03
2	Zn 213.857†	1089.1	558.7	3.4488	µg/L	3.4488	ppb	19:23:23
3	Sc RADIAL	22531.8	22531.8	102	%			19:22:23
3	Al 396.153Radial†	-151.4	-56.8	51.245	µg/L	51.245	ppb	19:22:23
3	Ca 317.933Radial†	423441.2	413779.1	281720	µg/L	281720	ppb	19:22:21
3	Fe 238.204 Radial†	6318.4	6147.3	20975	µg/L	20975	ppb	19:22:23
3	K 766.490 Radial†	14274.9	13299.7	16394	µg/L	16394	ppb	19:22:23
3	Mg 279.077 IEC†	11744.2	11474.2	81236	µg/L	81236	ppb	19:22:23
3	Na 589.592 Radial†	259438.3	253601.8	198310	µg/L	198310	ppb	19:22:21
3	Sr 421.552†	87711.1	85693.1	975.84	µg/L	975.84	ppb	19:22:21
3	Sc 361.383	1242905.2	1242905.2	98.654	%			19:23:26
3	Y 371.029	711800.4	711800.4	95.526	%			19:23:26
3	Ag 328.068†	1799.0	1153.9	0.0645	µg/L	0.0645	ppb	19:23:26
3	As 188.979†	-2.2	0.3	4.1527	µg/L	4.1527	ppb	19:23:46
3	B 249.677†	87067.3	87996.0	978.21	µg/L	978.21	ppb	19:23:26
3	Ba 233.527†	85959.4	87215.0	1225.7	µg/L	1225.7	ppb	19:23:26
3	Be 313.107†	-7311.3	-542.0	-0.2349	µg/L	-0.2349	ppb	19:23:26
3	Cd 226.502†	27.6	137.4	-0.5929	µg/L	-0.5929	ppb	19:23:46
3	Co 228.616†	-57.7	39.9	1.6592	µg/L	1.6592	ppb	19:23:46
3	Cr 267.716†	183.8	66.6	0.9192	µg/L	0.9192	ppb	19:23:46
3	Cu 324.752†	2463.0	-1365.3	-5.7271	µg/L	-5.7271	ppb	19:23:26
3	Mn 257.610†	139049.6	140741.9	407.67	µg/L	407.67	ppb	19:23:26
3	Mo 202.031†	-88.6	-81.0	-5.9241	µg/L	-5.9241	ppb	19:23:46
3	Ni 231.604†	230.7	276.7	8.1417	µg/L	8.1417	ppb	19:23:46
3	P 214.914†	545.7	613.2	622.59	µg/L	622.59	ppb	19:23:46
3	Pb 220.353†	127.4	26.7	5.0934	µg/L	5.0934	ppb	19:23:46
3	S 181.975 Axial†	1428.8	1425.3	4631.7	µg/L	4631.7	ppb	19:23:46
3	Sb 206.836†	6.1	0.8	1.0077	µg/L	1.0077	ppb	19:23:46
3	Se 196.026†	10.7	-0.2	6.87	µg/L	6.87	ppb	19:23:46
3	SiO2†	204126.6	205091.1	37746	µg/L	37746	ppb	19:23:26
3	Si 251.611†	592393.6	600064.8	17665	µg/L	17665	ppb	19:23:26
3	Sn 189.927†	-82.4	-81.7	-7.7463	µg/L	-7.7463	ppb	19:23:46
3	Ti 334.940†	-6153.0	-7821.8	-0.1611	µg/L	-0.1611	ppb	19:23:26
3	Tl 190.801†	-14.8	1.2	-2.3655	µg/L	-2.3655	ppb	19:23:46
3	U 367.007†	900.4	597.6	4.7780	µg/L	4.7780	ppb	19:23:26
3	V 292.402†	-26.2	-388.8	0.4599	µg/L	0.4599	ppb	19:23:26
3	Zn 213.857†	1104.2	576.4	3.6772	µg/L	3.6772	ppb	19:23:46

Mean Data: 335304022|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1241774.6	98.564	%	0.3523				0.36%
Sc RADIAL	22197.6	101	%	1.4				1.42%
Y 371.029	711023.5	95.422	%	0.3314				0.35%
Ag 328.068†	1083.8	-0.3575	µg/L	0.39751	-0.3575	ppb	0.39751	111.18%
Al 396.153Radial†	-50.7	60.336	µg/L	18.1787	60.336	ppb	18.1787	30.13%
As 188.979†	-1.0	1.5304	µg/L	2.27138	1.5304	ppb	2.27138	148.42%
B 249.677†	87732.0	975.45	µg/L	3.251	975.45	ppb	3.251	0.33%
Ba 233.527†	87036.7	1223.2	µg/L	3.35	1223.2	ppb	3.35	0.27%
Be 313.107†	-430.7	-0.1867	µg/L	0.04195	-0.1867	ppb	0.04195	22.47%
Ca 317.933Radial†	411520.9	280180	µg/L	5262.0	280180	ppb	5262.0	1.88%
Cd 226.502†	141.9	-0.5066	µg/L	0.14800	-0.5066	ppb	0.14800	29.21%
Co 228.616†	43.1	1.7530	µg/L	0.16281	1.7530	ppb	0.16281	9.29%
Cr 267.716†	65.7	0.9056	µg/L	0.03589	0.9056	ppb	0.03589	3.96%
Cu 324.752†	-1288.1	-5.2321	µg/L	0.50152	-5.2321	ppb	0.50152	9.59%
Fe 238.204 Radial†	6110.5	20850	µg/L	171.0	20850	ppb	171.0	0.82%
K 766.490 Radial†	13381.1	16495	µg/L	167.4	16495	ppb	167.4	1.01%
Mg 279.077 IEC†	11447.0	81043	µg/L	578.4	81043	ppb	578.4	0.71%
Mn 257.610†	140421.9	406.74	µg/L	0.952	406.74	ppb	0.952	0.23%
Mo 202.031†	-80.9	-5.9265	µg/L	0.66844	-5.9265	ppb	0.66844	11.28%
Na 589.592 Radial†	252431.0	197400	µg/L	2516.2	197400	ppb	2516.2	1.27%

Ni 231.604†	288.1	8.4833	µg/L	0.31702	8.4833	ppb	0.31702	3.74%
P 214.914†	617.6	627.49	µg/L	4.538	627.49	ppb	4.538	0.72%
Pb 220.353†	15.9	2.8073	µg/L	2.47142	2.8073	ppb	2.47142	88.03%
S 181.975 Axial†	1424.1	4627.9	µg/L	14.61	4627.9	ppb	14.61	0.32%
Sb 206.836†	1.3	1.3102	µg/L	0.67221	1.3102	ppb	0.67221	51.31%
Se 196.026†	0.7	8.12	µg/L	3.365	8.12	ppb	3.365	41.44%
SiO2†	204678.2	37670	µg/L	80.7	37670	ppb	80.7	0.21%
Si 251.611†	598747.9	17627	µg/L	41.2	17627	ppb	41.2	0.23%
Sn 189.927†	-82.6	-8.2577	µg/L	0.59798	-8.2577	ppb	0.59798	7.24%
Sr 421.552†	85460.3	973.19	µg/L	13.707	973.19	ppb	13.707	1.41%
Ti 334.940†	-7818.4	-0.2312	µg/L	0.16868	-0.2312	ppb	0.16868	72.96%
Tl 190.801†	2.4	-0.8706	µg/L	2.33244	-0.8706	ppb	2.33244	267.91%
U 367.007†	568.3	-2.3475	µg/L	6.28939	-2.3475	ppb	6.28939	267.92%
V 292.402†	-480.9	-0.2133	µg/L	0.58338	-0.2133	ppb	0.58338	273.51%
Zn 213.857†	564.3	3.5367	µg/L	0.12296	3.5367	ppb	0.12296	3.48%

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Sequence No.: 28 **Autosampler Location: 324**
Sample ID: 335304023|1339675|1 **Date Collected: 11/6/2013 19:23:54**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304023|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22843.7	22843.7	104	%			19:24:26
1	Al 396.153Radial†	-100.7	-5.9	84.836	µg/L	84.836	ppb	19:24:26
1	Ca 317.933Radial†	280847.0	270663.4	184280	µg/L	184280	ppb	19:24:24
1	Fe 238.204 Radial†	10855.0	10436.4	35611	µg/L	35611	ppb	19:24:26
1	K 766.490 Radial†	15747.7	14529.0	17888	µg/L	17888	ppb	19:24:26
1	Mg 279.077 IEC†	10921.4	10524.3	74514	µg/L	74514	ppb	19:24:26
1	Na 589.592 Radial†	351515.9	338905.8	265020	µg/L	265020	ppb	19:24:24
1	Sr 421.552†	105400.4	101575.8	1157.9	µg/L	1157.9	ppb	19:24:24
1	Sc 361.383	1286574.7	1286574.7	102.12	%			19:24:52
1	Y 371.029	736153.4	736153.4	98.794	%			19:24:52
1	Ag 328.068†	1244.1	548.5	-1.6250	µg/L	-1.6250	ppb	19:24:52
1	As 188.979†	98.0	98.5	200.23	µg/L	200.23	ppb	19:25:12
1	B 249.677†	222633.7	217752.6	2491.3	µg/L	2491.3	ppb	19:24:52
1	Ba 233.527†	62097.6	60891.1	855.53	µg/L	855.53	ppb	19:24:52
1	Be 313.107†	-7205.9	-187.2	-0.0811	µg/L	-0.0811	ppb	19:24:52
1	Cd 226.502†	155.3	261.6	-0.5564	µg/L	-0.5564	ppb	19:25:12
1	Co 228.616†	111.1	207.1	6.2644	µg/L	6.2644	ppb	19:25:12
1	Cr 267.716†	178.0	54.6	0.8912	µg/L	0.8912	ppb	19:25:12
1	Cu 324.752†	2233.8	-1674.4	-5.7538	µg/L	-5.7538	ppb	19:24:52
1	Mn 257.610†	523607.6	512533.0	1491.9	µg/L	1491.9	ppb	19:24:52
1	Mo 202.031†	19.9	28.3	6.4359	µg/L	6.4359	ppb	19:25:12
1	Ni 231.604†	977.5	1000.0	29.642	µg/L	29.642	ppb	19:25:12
1	P 214.914†	707.5	752.9	751.22	µg/L	751.22	ppb	19:25:12
1	Pb 220.353†	114.5	9.6	1.1243	µg/L	1.1243	ppb	19:25:12
1	S 181.975 Axial†	3019.0	2933.4	9575.3	µg/L	9575.3	ppb	19:25:12
1	Sb 206.836†	2.9	-2.5	-0.5057	µg/L	-0.5057	ppb	19:25:12
1	Se 196.026†	1.9	-9.3	-0.155	µg/L	-0.155	ppb	19:25:12
1	SiO2†	248780.1	241794.5	44501	µg/L	44501	ppb	19:24:52
1	Si 251.611†	722721.4	707305.6	20824	µg/L	20824	ppb	19:24:52
1	Sn 189.927†	-82.9	-79.3	-15.549	µg/L	-15.549	ppb	19:25:12
1	Ti 334.940†	-4063.7	-5564.1	-1.1170	µg/L	-1.1170	ppb	19:24:52
1	Tl 190.801†	-18.6	-2.0	-8.4361	µg/L	-8.4361	ppb	19:25:12
1	U 367.007†	1169.7	830.4	10.314	µg/L	10.314	ppb	19:24:52
1	V 292.402†	-261.6	-618.5	1.2595	µg/L	1.2595	ppb	19:24:52
1	Zn 213.857†	1333.4	762.8	4.5981	µg/L	4.5981	ppb	19:25:12
2	Sc RADIAL	22822.6	22822.6	104	%			19:24:30
2	Al 396.153Radial†	-116.9	-21.6	59.956	µg/L	59.956	ppb	19:24:30
2	Ca 317.933Radial†	281339.2	271388.9	184770	µg/L	184770	ppb	19:24:28
2	Fe 238.204 Radial†	10891.9	10481.8	35765	µg/L	35765	ppb	19:24:30
2	K 766.490 Radial†	15726.8	14522.8	17879	µg/L	17879	ppb	19:24:30
2	Mg 279.077 IEC†	10885.6	10499.5	74338	µg/L	74338	ppb	19:24:30
2	Na 589.592 Radial†	353024.6	340675.0	266400	µg/L	266400	ppb	19:24:28
2	Sr 421.552†	105878.4	102131.1	1164.2	µg/L	1164.2	ppb	19:24:28
2	Sc 361.383	1264742.9	1264742.9	100.39	%			19:25:14
2	Y 371.029	723980.4	723980.4	97.161	%			19:25:14
2	Ag 328.068†	1298.8	624.1	-1.1375	µg/L	-1.1375	ppb	19:25:14
2	As 188.979†	96.4	98.6	200.35	µg/L	200.35	ppb	19:25:34
2	B 249.677†	219291.8	218186.9	2496.0	µg/L	2496.0	ppb	19:25:14
2	Ba 233.527†	61024.4	60871.8	855.26	µg/L	855.26	ppb	19:25:14
2	Be 313.107†	-7267.5	-370.4	-0.1605	µg/L	-0.1605	ppb	19:25:14
2	Cd 226.502†	192.0	300.8	0.0362	µg/L	0.0362	ppb	19:25:34
2	Co 228.616†	132.3	230.2	6.9397	µg/L	6.9397	ppb	19:25:34
2	Cr 267.716†	182.8	62.4	1.0409	µg/L	1.0409	ppb	19:25:34
2	Cu 324.752†	2174.4	-1695.8	-5.8750	µg/L	-5.8750	ppb	19:25:14
2	Mn 257.610†	514444.2	512255.7	1491.1	µg/L	1491.1	ppb	19:25:14
2	Mo 202.031†	9.3	18.1	5.2761	µg/L	5.2761	ppb	19:25:34
2	Ni 231.604†	986.1	1025.1	30.390	µg/L	30.390	ppb	19:25:34
2	P 214.914†	694.2	751.6	749.66	µg/L	749.66	ppb	19:25:34
2	Pb 220.353†	142.3	39.3	7.4786	µg/L	7.4786	ppb	19:25:34

2	S 181.975 Axial†	2982.6	2948.1	9623.6	µg/L	9623.6	ppb	19:25:34
2	Sb 206.836†	8.7	3.3	3.1409	µg/L	3.1409	ppb	19:25:34
2	Se 196.026†	3.2	-7.9	1.74	µg/L	1.74	ppb	19:25:34
2	SiO2†	244855.6	242090.4	44556	µg/L	44556	ppb	19:25:14
2	Si 251.611†	710554.6	707402.2	20826	µg/L	20826	ppb	19:25:14
2	Sn 189.927†	-72.7	-70.6	-11.960	µg/L	-11.960	ppb	19:25:34
2	Ti 334.940†	-3920.3	-5489.9	-0.9522	µg/L	-0.9522	ppb	19:25:14
2	Tl 190.801†	-8.5	7.8	3.3794	µg/L	3.3794	ppb	19:25:34
2	U 367.007†	1153.5	834.0	10.445	µg/L	10.445	ppb	19:25:14
2	V 292.402†	-350.6	-711.5	0.6138	µg/L	0.6138	ppb	19:25:14
2	Zn 213.857†	1322.2	774.2	4.7268	µg/L	4.7268	ppb	19:25:34
3	Sc RADIAL	22780.5	22780.5	103	%			19:24:34
3	Al 396.153Radial†	-90.1	4.1	101.42	µg/L	101.42	ppb	19:24:34
3	Ca 317.933Radial†	281439.5	271987.4	185180	µg/L	185180	ppb	19:24:32
3	Fe 238.204 Radial†	10911.7	10520.3	35897	µg/L	35897	ppb	19:24:34
3	K 766.490 Radial†	15782.8	14605.0	17981	µg/L	17981	ppb	19:24:34
3	Mg 279.077 IEC†	10902.7	10535.4	74592	µg/L	74592	ppb	19:24:34
3	Na 589.592 Radial†	353554.0	341816.2	267300	µg/L	267300	ppb	19:24:32
3	Sr 421.552†	106097.4	102531.5	1168.8	µg/L	1168.8	ppb	19:24:32
3	Sc 361.383	1258723.9	1258723.9	99.909	%			19:25:36
3	Y 371.029	720001.3	720001.3	96.627	%			19:25:36
3	Ag 328.068†	1460.6	792.3	-0.0169	µg/L	-0.0169	ppb	19:25:36
3	As 188.979†	107.0	109.6	222.07	µg/L	222.07	ppb	19:25:57
3	B 249.677†	218450.4	218389.3	2497.9	µg/L	2497.9	ppb	19:25:36
3	Ba 233.527†	60749.3	60887.0	855.47	µg/L	855.47	ppb	19:25:36
3	Be 313.107†	-7037.2	-174.5	-0.0756	µg/L	-0.0756	ppb	19:25:36
3	Cd 226.502†	186.9	296.6	-0.0462	µg/L	-0.0462	ppb	19:25:57
3	Co 228.616†	126.1	224.6	6.7731	µg/L	6.7731	ppb	19:25:57
3	Cr 267.716†	188.8	69.2	1.1751	µg/L	1.1751	ppb	19:25:57
3	Cu 324.752†	2292.6	-1567.2	-4.9982	µg/L	-4.9982	ppb	19:25:36
3	Mn 257.610†	512481.3	512741.4	1492.6	µg/L	1492.6	ppb	19:25:36
3	Mo 202.031†	10.5	19.3	5.4258	µg/L	5.4258	ppb	19:25:57
3	Ni 231.604†	1001.1	1044.9	30.979	µg/L	30.979	ppb	19:25:57
3	P 214.914†	705.8	766.5	765.26	µg/L	765.26	ppb	19:25:57
3	Pb 220.353†	138.2	35.8	6.7399	µg/L	6.7399	ppb	19:25:57
3	S 181.975 Axial†	2995.6	2975.4	9712.7	µg/L	9712.7	ppb	19:25:57
3	Sb 206.836†	3.4	-1.9	-0.1803	µg/L	-0.1803	ppb	19:25:57
3	Se 196.026†	-0.0	-11.1	-2.57	µg/L	-2.57	ppb	19:25:57
3	SiO2†	243954.3	242354.6	44604	µg/L	44604	ppb	19:25:36
3	Si 251.611†	708501.5	708731.8	20866	µg/L	20866	ppb	19:25:36
3	Sn 189.927†	-76.2	-74.4	-13.452	µg/L	-13.452	ppb	19:25:57
3	Ti 334.940†	-3820.5	-5408.8	-0.7758	µg/L	-0.7758	ppb	19:25:36
3	Tl 190.801†	-19.8	-3.5	-10.339	µg/L	-10.339	ppb	19:25:57
3	U 367.007†	1112.3	798.3	-0.1165	µg/L	-0.1165	ppb	19:25:36
3	V 292.402†	-367.0	-729.6	0.5025	µg/L	0.5025	ppb	19:25:36
3	Zn 213.857†	1322.1	780.4	4.7836	µg/L	4.7836	ppb	19:25:57

Mean Data: 335304023|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1270013.8	100.81	%	1.163				1.15%
Sc RADIAL	22815.6	104	%	0.1				0.14%
Y 371.029	726711.7	97.527	%	1.1294				1.16%
Ag 328.068†	655.0	-0.9265	µg/L	0.82461	-0.9265	ppb	0.82461	89.00%
Al 396.153Radial†	-7.8	82.072	µg/L	20.8714	82.072	ppb	20.8714	25.43%
As 188.979†	102.2	207.55	µg/L	12.576	207.55	ppb	12.576	6.06%
B 249.677†	218109.6	2495.1	µg/L	3.39	2495.1	ppb	3.39	0.14%
Ba 233.527†	60883.3	855.42	µg/L	0.144	855.42	ppb	0.144	0.02%
Be 313.107†	-244.0	-0.1058	µg/L	0.04751	-0.1058	ppb	0.04751	44.92%
Ca 317.933Radial†	271346.6	184740	µg/L	451.4	184740	ppb	451.4	0.24%
Cd 226.502†	286.3	-0.1888	µg/L	0.32096	-0.1888	ppb	0.32096	169.99%
Co 228.616†	220.6	6.6591	µg/L	0.35180	6.6591	ppb	0.35180	5.28%
Cr 267.716†	62.1	1.0357	µg/L	0.14202	1.0357	ppb	0.14202	13.71%
Cu 324.752†	-1645.8	-5.5423	µg/L	0.47513	-5.5423	ppb	0.47513	8.57%
Fe 238.204 Radial†	10479.5	35758	µg/L	143.2	35758	ppb	143.2	0.40%
K 766.490 Radial†	14552.3	17916	µg/L	56.3	17916	ppb	56.3	0.31%
Mg 279.077 IEC†	10519.7	74481	µg/L	130.4	74481	ppb	130.4	0.18%
Mn 257.610†	512510.0	1491.9	µg/L	0.71	1491.9	ppb	0.71	0.05%
Mo 202.031†	21.9	5.7126	µg/L	0.63085	5.7126	ppb	0.63085	11.04%
Na 589.592 Radial†	340465.7	266240	µg/L	1146.7	266240	ppb	1146.7	0.43%

Ni 231.604†	1023.3	30.337	µg/L	0.6699	30.337	ppb	0.6699	2.21%
P 214.914†	757.0	755.38	µg/L	8.589	755.38	ppb	8.589	1.14%
Pb 220.353†	28.3	5.1143	µg/L	3.47508	5.1143	ppb	3.47508	67.95%
S 181.975 Axial†	2952.3	9637.2	µg/L	69.71	9637.2	ppb	69.71	0.72%
Sb 206.836†	-0.4	0.8183	µg/L	2.01802	0.8183	ppb	2.01802	246.61%
Se 196.026†	-9.4	-0.329	µg/L	2.1580	-0.329	ppb	2.1580	654.95%
SiO2†	242079.9	44554	µg/L	51.6	44554	ppb	51.6	0.12%
Si 251.611†	707813.2	20838	µg/L	23.5	20838	ppb	23.5	0.11%
Sn 189.927†	-74.8	-13.654	µg/L	1.8026	-13.654	ppb	1.8026	13.20%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	102079.5	1163.6	µg/L	5.47	1163.6	ppb	5.47	0.47%
Ti 334.940†	-5487.6	-0.9483	µg/L	0.17066	-0.9483	ppb	0.17066	18.00%
Tl 190.801†	0.8	-5.1317	µg/L	7.43201	-5.1317	ppb	7.43201	144.82%
U 367.007†	820.9	6.8810	µg/L	6.06035	6.8810	ppb	6.06035	88.07%
V 292.402†	-686.5	0.7919	µg/L	0.40872	0.7919	ppb	0.40872	51.61%
Zn 213.857†	772.5	4.7028	µg/L	0.09501	4.7028	ppb	0.09501	2.02%

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Sequence No.: 29 **Autosampler Location: 325**
Sample ID: 335304024|1339675|1 **Date Collected: 11/6/2013 19:26:05**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304024|1339675|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22722.2	22722.2	103	%			19:26:37
1	Al 396.153Radial†	-83.7	10.0	112.68	µg/L	112.68	ppb	19:26:37
1	Ca 317.933Radial†	285739.4	276852.4	188490	µg/L	188490	ppb	19:26:35
1	Fe 238.204 Radial†	11238.8	10864.4	37071	µg/L	37071	ppb	19:26:37
1	K 766.490 Radial†	16159.3	15009.1	18478	µg/L	18478	ppb	19:26:37
1	Mg 279.077 IEC†	10997.7	10654.5	75436	µg/L	75436	ppb	19:26:37
1	Na 589.592 Radial†	362932.7	351782.3	275090	µg/L	275090	ppb	19:26:35
1	Sr 421.552†	106959.5	103630.0	1181.3	µg/L	1181.3	ppb	19:26:35
1	Sc 361.383	1279866.7	1279866.7	101.59	%			19:27:03
1	Y 371.029	731986.2	731986.2	98.235	%			19:27:03
1	Ag 328.068†	1547.8	853.9	0.3008	µg/L	0.3008	ppb	19:27:03
1	As 188.979†	99.4	100.4	204.20	µg/L	204.20	ppb	19:27:23
1	B 249.677†	225808.2	222020.2	2537.2	µg/L	2537.2	ppb	19:27:03
1	Ba 233.527†	63888.6	62972.8	884.78	µg/L	884.78	ppb	19:27:03
1	Be 313.107†	-7310.6	-327.3	-0.1418	µg/L	-0.1418	ppb	19:27:03
1	Cd 226.502†	187.3	293.9	-0.2403	µg/L	-0.2403	ppb	19:27:23
1	Co 228.616†	139.2	235.4	7.0927	µg/L	7.0927	ppb	19:27:23
1	Cr 267.716†	226.9	103.6	1.8392	µg/L	1.8392	ppb	19:27:23
1	Cu 324.752†	2470.3	-1430.2	-3.9100	µg/L	-3.9100	ppb	19:27:03
1	Mn 257.610†	519544.2	511220.4	1488.1	µg/L	1488.1	ppb	19:27:03
1	Mo 202.031†	15.3	23.9	5.9932	µg/L	5.9932	ppb	19:27:23
1	Ni 231.604†	1089.6	1115.5	33.078	µg/L	33.078	ppb	19:27:23
1	P 214.914†	750.8	799.1	798.26	µg/L	798.26	ppb	19:27:23
1	Pb 220.353†	121.3	17.0	2.6787	µg/L	2.6787	ppb	19:27:23
1	S 181.975 Axial†	2974.4	2905.0	9481.8	µg/L	9481.8	ppb	19:27:23
1	Sb 206.836†	5.6	0.2	1.1870	µg/L	1.1870	ppb	19:27:23
1	Se 196.026†	9.6	-1.6	10.8	µg/L	10.8	ppb	19:27:23
1	SiO2†	253891.1	248102.5	45662	µg/L	45662	ppb	19:27:03
1	Si 251.611†	736987.3	725057.8	21346	µg/L	21346	ppb	19:27:03
1	Sn 189.927†	-80.6	-77.5	-14.431	µg/L	-14.431	ppb	19:27:23
1	Ti 334.940†	-2272.7	-3821.9	2.3500	µg/L	2.3500	ppb	19:27:03
1	Tl 190.801†	-9.9	6.5	1.8632	µg/L	1.8632	ppb	19:27:23
1	U 367.007†	1142.7	809.8	-3.5005	µg/L	-3.5005	ppb	19:27:03
1	V 292.402†	-203.7	-562.9	1.8649	µg/L	1.8649	ppb	19:27:03
1	Zn 213.857†	1597.0	1029.1	7.8126	µg/L	7.8126	ppb	19:27:23
2	Sc RADIAL	22756.9	22756.9	103	%			19:26:41
2	Al 396.153Radial†	-48.0	44.7	167.58	µg/L	167.58	ppb	19:26:41
2	Ca 317.933Radial†	284101.2	274845.3	187120	µg/L	187120	ppb	19:26:39
2	Fe 238.204 Radial†	11238.4	10847.3	37013	µg/L	37013	ppb	19:26:41
2	K 766.490 Radial†	16094.0	14922.0	18370	µg/L	18370	ppb	19:26:41
2	Mg 279.077 IEC†	10990.8	10631.6	75274	µg/L	75274	ppb	19:26:41
2	Na 589.592 Radial†	363881.0	352164.1	275390	µg/L	275390	ppb	19:26:39
2	Sr 421.552†	106478.1	103006.3	1174.2	µg/L	1174.2	ppb	19:26:39
2	Sc 361.383	1260086.6	1260086.6	100.02	%			19:27:25
2	Y 371.029	720672.4	720672.4	96.717	%			19:27:25
2	Ag 328.068†	1332.5	662.6	-0.9333	µg/L	-0.9333	ppb	19:27:25
2	As 188.979†	108.8	111.3	225.61	µg/L	225.61	ppb	19:27:45
2	B 249.677†	223288.0	222989.6	2549.1	µg/L	2549.1	ppb	19:27:25
2	Ba 233.527†	63073.1	63144.7	887.19	µg/L	887.19	ppb	19:27:25
2	Be 313.107†	-7101.0	-230.6	-0.0999	µg/L	-0.0999	ppb	19:27:25
2	Cd 226.502†	213.3	322.8	0.2190	µg/L	0.2190	ppb	19:27:45
2	Co 228.616†	121.8	220.2	6.6460	µg/L	6.6460	ppb	19:27:45
2	Cr 267.716†	194.7	74.9	1.3213	µg/L	1.3213	ppb	19:27:45
2	Cu 324.752†	2360.2	-1502.1	-4.4076	µg/L	-4.4076	ppb	19:27:25
2	Mn 257.610†	512761.6	512467.0	1491.8	µg/L	1491.8	ppb	19:27:25
2	Mo 202.031†	15.2	24.0	6.0020	µg/L	6.0020	ppb	19:27:45
2	Ni 231.604†	1098.7	1141.3	33.850	µg/L	33.850	ppb	19:27:45
2	P 214.914†	746.7	806.6	806.35	µg/L	806.35	ppb	19:27:45
2	Pb 220.353†	109.5	7.1	0.5643	µg/L	0.5643	ppb	19:27:45

2	S 181.975 Axial†	2968.6	2945.2	9613.6	µg/L	9613.6	ppb	19:27:45
2	Sb 206.836†	8.6	3.2	3.1376	µg/L	3.1376	ppb	19:27:45
2	Se 196.026†	9.1	-2.0	10.3	µg/L	10.3	ppb	19:27:45
2	SiO2†	250750.1	248885.2	45806	µg/L	45806	ppb	19:27:25
2	Si 251.611†	728390.0	727850.0	21428	µg/L	21428	ppb	19:27:25
2	Sn 189.927†	-76.9	-75.1	-13.553	µg/L	-13.553	ppb	19:27:45
2	Ti 334.940†	-2175.2	-3759.6	2.4018	µg/L	2.4018	ppb	19:27:25
2	Tl 190.801†	-4.7	11.5	7.9407	µg/L	7.9407	ppb	19:27:45
2	U 367.007†	1074.4	759.2	-16.837	µg/L	-16.837	ppb	19:27:25
2	V 292.402†	-372.0	-734.2	0.6384	µg/L	0.6384	ppb	19:27:25
2	Zn 213.857†	1592.3	1049.1	8.0717	µg/L	8.0717	ppb	19:27:45
3	Sc RADIAL	22775.2	22775.2	103	%			19:26:45
3	Al 396.153Radial†	-82.1	11.7	113.64	µg/L	113.64	ppb	19:26:45
3	Ca 317.933Radial†	281074.9	271698.4	184980	µg/L	184980	ppb	19:26:43
3	Fe 238.204 Radial†	11296.1	10894.4	37173	µg/L	37173	ppb	19:26:45
3	K 766.490 Radial†	16147.4	14961.2	18420	µg/L	18420	ppb	19:26:45
3	Mg 279.077 IEC†	11078.1	10707.5	75811	µg/L	75811	ppb	19:26:45
3	Na 589.592 Radial†	359311.0	347462.7	271710	µg/L	271710	ppb	19:26:43
3	Sr 421.552†	105728.5	102198.8	1165.0	µg/L	1165.0	ppb	19:26:43
3	Sc 361.383	1258114.8	1258114.8	99.861	%			19:27:48
3	Y 371.029	719487.4	719487.4	96.558	%			19:27:48
3	Ag 328.068†	1476.6	809.0	0.0789	µg/L	0.0789	ppb	19:27:48
3	As 188.979†	101.7	104.4	212.04	µg/L	212.04	ppb	19:28:08
3	B 249.677†	223556.7	223608.6	2556.0	µg/L	2556.0	ppb	19:27:48
3	Ba 233.527†	63077.3	63247.8	888.64	µg/L	888.64	ppb	19:27:48
3	Be 313.107†	-7133.4	-274.2	-0.1189	µg/L	-0.1189	ppb	19:27:48
3	Cd 226.502†	185.6	295.4	-0.2303	µg/L	-0.2303	ppb	19:28:08
3	Co 228.616†	133.4	232.0	6.9914	µg/L	6.9914	ppb	19:28:08
3	Cr 267.716†	195.3	75.8	1.3184	µg/L	1.3184	ppb	19:28:08
3	Cu 324.752†	2374.9	-1483.6	-4.2456	µg/L	-4.2456	ppb	19:27:48
3	Mn 257.610†	513475.6	513985.5	1496.2	µg/L	1496.2	ppb	19:27:48
3	Mo 202.031†	19.0	27.9	6.4625	µg/L	6.4625	ppb	19:28:08
3	Ni 231.604†	1086.8	1131.2	33.546	µg/L	33.546	ppb	19:28:08
3	P 214.914†	755.3	816.4	816.49	µg/L	816.49	ppb	19:28:08
3	Pb 220.353†	128.8	26.6	4.7118	µg/L	4.7118	ppb	19:28:08
3	S 181.975 Axial†	2991.5	2972.7	9703.9	µg/L	9703.9	ppb	19:28:08
3	Sb 206.836†	7.3	2.0	2.3483	µg/L	2.3483	ppb	19:28:08
3	Se 196.026†	3.7	-7.4	2.91	µg/L	2.91	ppb	19:28:08
3	SiO2†	250956.4	249484.7	45916	µg/L	45916	ppb	19:27:48
3	Si 251.611†	729540.9	730143.9	21496	µg/L	21496	ppb	19:27:48
3	Sn 189.927†	-84.6	-82.9	-16.921	µg/L	-16.921	ppb	19:28:08
3	Ti 334.940†	-2171.5	-3759.3	2.2714	µg/L	2.2714	ppb	19:27:48
3	Tl 190.801†	-12.6	3.7	-1.5978	µg/L	-1.5978	ppb	19:28:08
3	U 367.007†	1175.4	862.0	10.889	µg/L	10.889	ppb	19:27:48
3	V 292.402†	-174.2	-536.8	2.0771	µg/L	2.0771	ppb	19:27:48
3	Zn 213.857†	1609.8	1069.1	8.3026	µg/L	8.3026	ppb	19:28:08

Mean Data: 335304024|1339675|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1266022.7	100.49	%	0.955				0.95%
Sc RADIAL	22751.4	103	%	0.1				0.12%
Y 371.029	724048.7	97.170	%	0.9260				0.95%
Ag 328.068†	775.2	-0.1846	µg/L	0.65788	-0.1846	ppb	0.65788	356.43%
Al 396.153Radial†	22.2	131.30	µg/L	31.422	131.30	ppb	31.422	23.93%
As 188.979†	105.4	213.95	µg/L	10.832	213.95	ppb	10.832	5.06%
B 249.677†	222872.8	2547.4	µg/L	9.54	2547.4	ppb	9.54	0.37%
Ba 233.527†	63121.8	886.87	µg/L	1.952	886.87	ppb	1.952	0.22%
Be 313.107†	-277.4	-0.1202	µg/L	0.02098	-0.1202	ppb	0.02098	17.45%
Ca 317.933Radial†	274465.4	186860	µg/L	1769.0	186860	ppb	1769.0	0.95%
Cd 226.502†	304.0	-0.0839	µg/L	0.26234	-0.0839	ppb	0.26234	312.85%
Co 228.616†	229.2	6.9101	µg/L	0.23418	6.9101	ppb	0.23418	3.39%
Cr 267.716†	84.8	1.4930	µg/L	0.29982	1.4930	ppb	0.29982	20.08%
Cu 324.752†	-1471.9	-4.1877	µg/L	0.25376	-4.1877	ppb	0.25376	6.06%
Fe 238.204 Radial†	10868.7	37086	µg/L	81.3	37086	ppb	81.3	0.22%
K 766.490 Radial†	14964.1	18423	µg/L	54.0	18423	ppb	54.0	0.29%
Mg 279.077 IEC†	10664.6	75507	µg/L	275.6	75507	ppb	275.6	0.37%
Mn 257.610†	512557.6	1492.0	µg/L	4.03	1492.0	ppb	4.03	0.27%
Mo 202.031†	25.3	6.1526	µg/L	0.26845	6.1526	ppb	0.26845	4.36%
Na 589.592 Radial†	350469.7	274060	µg/L	2041.9	274060	ppb	2041.9	0.75%

Ni 231.604†	1129.3	33.491	µg/L	0.3892	33.491	ppb	0.3892	1.16%
P 214.914†	807.4	807.03	µg/L	9.136	807.03	ppb	9.136	1.13%
Pb 220.353†	16.9	2.6516	µg/L	2.07388	2.6516	ppb	2.07388	78.21%
S 181.975 Axial†	2941.0	9599.7	µg/L	111.68	9599.7	ppb	111.68	1.16%
Sb 206.836†	1.8	2.2243	µg/L	0.98122	2.2243	ppb	0.98122	44.11%
Se 196.026†	-3.7	7.99	µg/L	4.413	7.99	ppb	4.413	55.20%
SiO2†	248824.1	45795	µg/L	127.6	45795	ppb	127.6	0.28%
Si 251.611†	727683.9	21424	µg/L	75.0	21424	ppb	75.0	0.35%
Sn 189.927†	-78.5	-14.969	µg/L	1.7471	-14.969	ppb	1.7471	11.67%
Concentration less than lower limit for Sn 189.927.								
Sr 421.552†	102945.0	1173.5	µg/L	8.18	1173.5	ppb	8.18	0.70%
Ti 334.940†	-3780.2	2.3411	µg/L	0.06565	2.3411	ppb	0.06565	2.80%
Tl 190.801†	7.2	2.7354	µg/L	4.82872	2.7354	ppb	4.82872	176.53%
U 367.007†	810.3	-3.1496	µg/L	13.86653	-3.1496	ppb	13.86653	440.26%
V 292.402†	-611.3	1.5268	µg/L	0.77666	1.5268	ppb	0.77666	50.87%
Zn 213.857†	1049.1	8.0623	µg/L	0.24513	8.0623	ppb	0.24513	3.04%

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Sequence No.: 30 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/6/2013 19:28:16**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23125.0	23125.0	105	%			19:28:47
1	Al 396.153Radial†	3186.0	3125.2	5008.9	µg/L	5008.9	ppb	19:28:47
1	Ca 317.933Radial†	8031.0	7565.7	5150.2	µg/L	5150.2	ppb	19:29:07
1	Fe 238.204 Radial†	1633.4	1527.4	5196.5	µg/L	5196.5	ppb	19:29:07
1	K 766.490 Radial†	4979.5	4089.7	5071.2	µg/L	5071.2	ppb	19:28:47
1	Mg 279.077 IEC†	793.1	751.0	5317.6	µg/L	5317.6	ppb	19:29:07
1	Na 589.592 Radial†	13414.2	12807.3	10015	µg/L	10015	ppb	19:28:47
1	Sr 421.552†	44705.4	42539.7	485.47	µg/L	485.47	ppb	19:28:47
1	Sc 361.383	1316463.8	1316463.8	104.49	%			19:30:09
1	Y 371.029	761776.4	761776.4	102.23	%			19:30:09
1	Ag 328.068†	76537.0	72576.9	486.36	µg/L	486.36	ppb	19:30:11
1	As 188.979†	244.1	236.1	472.57	µg/L	472.57	ppb	19:30:31
1	B 249.677†	42122.4	40052.1	464.37	µg/L	464.37	ppb	19:30:11
1	Ba 233.527†	35900.2	34439.3	485.40	µg/L	485.40	ppb	19:30:11
1	Be 313.107†	1154026.1	1111282.0	481.66	µg/L	481.66	ppb	19:30:09
1	Cd 226.502†	32347.0	31065.9	484.63	µg/L	484.63	ppb	19:30:11
1	Co 228.616†	17235.4	16592.9	488.12	µg/L	488.12	ppb	19:30:11
1	Cr 267.716†	27666.7	26357.6	482.57	µg/L	482.57	ppb	19:30:11
1	Cu 324.752†	79122.6	71859.2	482.65	µg/L	482.65	ppb	19:30:11
1	Mn 257.610†	174097.7	166407.7	484.96	µg/L	484.96	ppb	19:30:11
1	Mo 202.031†	4557.5	4370.5	493.96	µg/L	493.96	ppb	19:30:31
1	Ni 231.604†	17172.6	16477.2	491.47	µg/L	491.47	ppb	19:30:11
1	P 214.914†	2500.5	2453.0	2586.9	µg/L	2586.9	ppb	19:30:31
1	Pb 220.353†	2533.4	2322.0	499.08	µg/L	499.08	ppb	19:30:31
1	S 181.975 Axial†	345.2	307.4	1001.7	µg/L	1001.7	ppb	19:30:31
1	Sb 206.836†	838.0	796.6	503.67	µg/L	503.67	ppb	19:30:31
1	Se 196.026†	393.2	365.2	499	µg/L	499	ppb	19:30:31
1	SiO2†	31831.9	28642.1	5280.9	µg/L	5280.9	ppb	19:30:11
1	Si 251.611†	88462.3	84246.1	2473.7	µg/L	2473.7	ppb	19:30:11
1	Sn 189.927†	1326.7	1271.5	517.72	µg/L	517.72	ppb	19:30:31
1	Ti 334.940†	272504.1	259204.0	482.76	µg/L	482.76	ppb	19:30:11
1	Tl 190.801†	394.5	393.8	472.59	µg/L	472.59	ppb	19:30:31
1	U 367.007†	2054.5	1651.1	423.06	µg/L	423.06	ppb	19:30:11
1	V 292.402†	71828.9	68378.6	489.92	µg/L	489.92	ppb	19:30:11
1	Zn 213.857†	40111.3	37843.9	479.10	µg/L	479.10	ppb	19:30:11
2	Sc RADIAL	23701.4	23701.4	108	%			19:29:09
2	Al 396.153Radial†	2858.6	2747.2	4402.5	µg/L	4402.5	ppb	19:29:09
2	Ca 317.933Radial†	7866.2	7226.6	4919.3	µg/L	4919.3	ppb	19:29:29
2	Fe 238.204 Radial†	1613.2	1470.8	5002.7	µg/L	5002.7	ppb	19:29:29
2	K 766.490 Radial†	4524.6	3551.7	4405.9	µg/L	4405.9	ppb	19:29:09
2	Mg 279.077 IEC†	778.4	718.9	5090.7	µg/L	5090.7	ppb	19:29:29
2	Na 589.592 Radial†	12198.4	11367.0	8888.8	µg/L	8888.8	ppb	19:29:09
2	Sr 421.552†	40575.1	37666.6	429.86	µg/L	429.86	ppb	19:29:09
2	Sc 361.383	1267483.6	1267483.6	100.60	%			19:30:33
2	Y 371.029	734065.5	734065.5	98.514	%			19:30:33
2	Ag 328.068†	76739.1	75608.3	506.70	µg/L	506.70	ppb	19:30:35
2	As 188.979†	238.9	240.0	480.40	µg/L	480.40	ppb	19:30:55
2	B 249.677†	42558.7	42043.5	489.53	µg/L	489.53	ppb	19:30:35
2	Ba 233.527†	36169.2	36034.4	507.89	µg/L	507.89	ppb	19:30:35
2	Be 313.107†	1146520.2	1146499.7	496.92	µg/L	496.92	ppb	19:30:33
2	Cd 226.502†	32565.5	32479.3	506.74	µg/L	506.74	ppb	19:30:35
2	Co 228.616†	17386.4	17380.3	511.28	µg/L	511.28	ppb	19:30:35
2	Cr 267.716†	27865.0	27577.8	504.90	µg/L	504.90	ppb	19:30:35
2	Cu 324.752†	79394.8	75055.9	504.06	µg/L	504.06	ppb	19:30:35
2	Mn 257.610†	175349.5	174090.6	507.36	µg/L	507.36	ppb	19:30:35
2	Mo 202.031†	4508.6	4490.4	507.50	µg/L	507.50	ppb	19:30:55
2	Ni 231.604†	17199.6	17139.1	511.22	µg/L	511.22	ppb	19:30:35
2	P 214.914†	2481.6	2526.7	2664.9	µg/L	2664.9	ppb	19:30:55
2	Pb 220.353†	2497.5	2380.1	511.54	µg/L	511.54	ppb	19:30:55

2	S 181.975 Axial†	346.9	321.9	1049.1 µg/L	1049.1 ppb	19:30:55
2	Sb 206.836†	839.2	828.9	523.95 µg/L	523.95 ppb	19:30:55
2	Se 196.026†	384.8	371.4	507 µg/L	507 ppb	19:30:55
2	SiO2†	31828.6	29816.0	5497.4 µg/L	5497.4 ppb	19:30:35
2	Si 251.611†	88514.5	87569.4	2571.3 µg/L	2571.3 ppb	19:30:35
2	Sn 189.927†	1320.5	1314.4	535.14 µg/L	535.14 ppb	19:30:55
2	Ti 334.940†	274155.0	270922.8	504.56 µg/L	504.56 ppb	19:30:35
2	Tl 190.801†	388.5	402.4	482.78 µg/L	482.78 ppb	19:30:55
2	U 367.007†	2026.4	1699.2	437.16 µg/L	437.16 ppb	19:30:35
2	V 292.402†	72489.4	71691.5	513.46 µg/L	513.46 ppb	19:30:35
2	Zn 213.857†	40237.8	39453.1	499.53 µg/L	499.53 ppb	19:30:35
3	Sc RADIAL	22189.2	22189.2	101 %		19:29:31
3	Al 396.153Radial†	3044.3	3112.5	4988.7 µg/L	4988.7 ppb	19:29:31
3	Ca 317.933Radial†	7876.0	7734.4	5265.0 µg/L	5265.0 ppb	19:29:51
3	Fe 238.204 Radial†	1616.2	1575.9	5361.4 µg/L	5361.4 ppb	19:29:51
3	K 766.490 Radial†	4725.1	4037.2	5006.6 µg/L	5006.6 ppb	19:29:31
3	Mg 279.077 IEC†	790.1	779.9	5522.1 µg/L	5522.1 ppb	19:29:51
3	Na 589.592 Radial†	12906.5	12842.2	10042 µg/L	10042 ppb	19:29:31
3	Sr 421.552†	44062.0	43696.5	498.67 µg/L	498.67 ppb	19:29:31
3	Sc 361.383	1304801.5	1304801.5	103.57 %		19:30:58
3	Y 371.029	755229.4	755229.4	101.35 %		19:30:58
3	Ag 328.068†	78629.9	75252.4	504.28 µg/L	504.28 ppb	19:31:00
3	As 188.979†	244.4	238.6	477.53 µg/L	477.53 ppb	19:31:20
3	B 249.677†	43641.5	41879.1	485.94 µg/L	485.94 ppb	19:31:00
3	Ba 233.527†	37162.2	35965.0	506.90 µg/L	506.90 ppb	19:31:00
3	Be 313.107†	1188324.8	1154270.7	500.29 µg/L	500.29 ppb	19:30:58
3	Cd 226.502†	33755.9	32703.0	510.18 µg/L	510.18 ppb	19:31:00
3	Co 228.616†	17805.5	17290.7	508.63 µg/L	508.63 ppb	19:31:00
3	Cr 267.716†	28653.9	27547.4	504.35 µg/L	504.35 ppb	19:31:00
3	Cu 324.752†	80988.5	74337.6	499.31 µg/L	499.31 ppb	19:31:00
3	Mn 257.610†	179870.8	173471.2	505.54 µg/L	505.54 ppb	19:31:00
3	Mo 202.031†	4509.6	4363.2	493.15 µg/L	493.15 ppb	19:31:20
3	Ni 231.604†	17749.5	17181.1	512.47 µg/L	512.47 ppb	19:31:00
3	P 214.914†	2497.6	2471.7	2606.3 µg/L	2606.3 ppb	19:31:20
3	Pb 220.353†	2511.2	2322.3	499.12 µg/L	499.12 ppb	19:31:20
3	S 181.975 Axial†	335.0	300.5	979.16 µg/L	979.16 ppb	19:31:20
3	Sb 206.836†	839.3	805.1	508.80 µg/L	508.80 ppb	19:31:20
3	Se 196.026†	384.2	359.9	492 µg/L	492 ppb	19:31:20
3	SiO2†	32594.1	29650.4	5466.9 µg/L	5466.9 ppb	19:31:00
3	Si 251.611†	90576.3	87043.9	2556.1 µg/L	2556.1 ppb	19:31:00
3	Sn 189.927†	1324.9	1281.1	521.62 µg/L	521.62 ppb	19:31:20
3	Ti 334.940†	280215.5	268980.7	500.96 µg/L	500.96 ppb	19:31:00
3	Tl 190.801†	379.5	382.6	458.84 µg/L	458.84 ppb	19:31:20
3	U 367.007†	2114.6	1726.7	442.83 µg/L	442.83 ppb	19:31:00
3	V 292.402†	74185.6	71268.5	510.36 µg/L	510.36 ppb	19:31:00
3	Zn 213.857†	41444.7	39474.5	499.75 µg/L	499.75 ppb	19:31:00

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1296249.6	102.89	%	2.031				1.97%
Sc RADIAL	23005.2	104	%	3.5				3.32%
Y 371.029	750357.1	100.70	%	1.944				1.93%
Ag 328.068†	74479.2	499.11	µg/L	11.111	499.11	ppb	11.111	2.23%
QC value within limits for Ag 328.068 Recovery = 99.82%								
Al 396.153Radial†	2995.0	4800.0	µg/L	344.41	4800.0	ppb	344.41	7.18%
QC value within limits for Al 396.153Radial Recovery = 96.00%								
As 188.979†	238.2	476.84	µg/L	3.961	476.84	ppb	3.961	0.83%
QC value within limits for As 188.979 Recovery = 95.37%								
B 249.677†	41324.9	479.94	µg/L	13.609	479.94	ppb	13.609	2.84%
QC value within limits for B 249.677 Recovery = 95.99%								
Ba 233.527†	35479.6	500.06	µg/L	12.708	500.06	ppb	12.708	2.54%
QC value within limits for Ba 233.527 Recovery = 100.01%								
Be 313.107†	1137350.8	492.95	µg/L	9.929	492.95	ppb	9.929	2.01%
QC value within limits for Be 313.107 Recovery = 98.59%								
Ca 317.933Radial†	7508.9	5111.5	µg/L	176.05	5111.5	ppb	176.05	3.44%
QC value within limits for Ca 317.933Radial Recovery = 102.23%								
Cd 226.502†	32082.7	500.52	µg/L	13.864	500.52	ppb	13.864	2.77%
QC value within limits for Cd 226.502 Recovery = 100.10%								
Co 228.616†	17088.0	502.68	µg/L	12.676	502.68	ppb	12.676	2.52%

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   QC value within limits for Co 228.616  Recovery = 100.54%
Cr 267.716†            27160.9      497.27 µg/L        12.738      497.27 ppb         12.738   2.56%
   QC value within limits for Cr 267.716  Recovery = 99.45%
Cu 324.752†            73750.9      495.34 µg/L        11.243      495.34 ppb         11.243   2.27%
   QC value within limits for Cu 324.752  Recovery = 99.07%
Fe 238.204 Radial†      1524.7      5186.9 µg/L        179.52      5186.9 ppb         179.52   3.46%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.74%
K 766.490 Radial†       3892.9      4827.9 µg/L        366.85      4827.9 ppb         366.85   7.60%
   QC value within limits for K 766.490 Radial  Recovery = 96.56%
Mg 279.077 IEC†          749.9      5310.1 µg/L        215.81      5310.1 ppb         215.81   4.06%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.20%
Mn 257.610†           171323.2      499.29 µg/L        12.441      499.29 ppb         12.441   2.49%
   QC value within limits for Mn 257.610  Recovery = 99.86%
Mo 202.031†             4408.0      498.20 µg/L         8.061      498.20 ppb          8.061   1.62%
   QC value within limits for Mo 202.031  Recovery = 99.64%
Na 589.592 Radial†     12338.8      9648.8 µg/L        658.30      9648.8 ppb         658.30   6.82%
   QC value within limits for Na 589.592 Radial  Recovery = 96.49%
Ni 231.604†            16932.4      505.05 µg/L        11.777      505.05 ppb         11.777   2.33%
   QC value within limits for Ni 231.604  Recovery = 101.01%
P 214.914†              2483.8      2619.4 µg/L         40.58      2619.4 ppb          40.58   1.55%
   QC value within limits for P 214.914  Recovery = 104.78%
Pb 220.353†             2341.5      503.25 µg/L         7.181      503.25 ppb          7.181   1.43%
   QC value within limits for Pb 220.353  Recovery = 100.65%
S 181.975 Axial†         309.9      1010.0 µg/L         35.70      1010.0 ppb          35.70   3.53%
   QC value within limits for S 181.975 Axial  Recovery = 101.00%
Sb 206.836†              810.2      512.14 µg/L        10.548      512.14 ppb         10.548   2.06%
   QC value within limits for Sb 206.836  Recovery = 102.43%
Se 196.026†              365.5         499 µg/L           7.8         499 ppb            7.8   1.57%
   QC value within limits for Se 196.026  Recovery = 99.83%
SiO2†                  29369.5      5415.1 µg/L        117.18      5415.1 ppb         117.18   2.16%
   QC value within limits for SiO2  Recovery = 101.26%
Si 251.611†            86286.5      2533.7 µg/L         52.52      2533.7 ppb          52.52   2.07%
   QC value within limits for Si 251.611  Recovery = 101.35%
Sn 189.927†             1289.0      524.83 µg/L         9.144      524.83 ppb          9.144   1.74%
   QC value within limits for Sn 189.927  Recovery = 104.97%
Sr 421.552†            41300.9      471.33 µg/L        36.522      471.33 ppb         36.522   7.75%
   QC value within limits for Sr 421.552  Recovery = 94.27%
Ti 334.940†           266369.2      496.09 µg/L        11.689      496.09 ppb         11.689   2.36%
   QC value within limits for Ti 334.940  Recovery = 99.22%
Tl 190.801†              392.9      471.40 µg/L        12.015      471.40 ppb         12.015   2.55%
   QC value within limits for Tl 190.801  Recovery = 94.28%
U 367.007†              1692.3      434.35 µg/L        10.179      434.35 ppb         10.179   2.34%
   QC value less than the lower limit for U 367.007  Recovery = 86.87%
V 292.402†             70446.2      504.58 µg/L        12.789      504.58 ppb         12.789   2.53%
   QC value within limits for V 292.402  Recovery = 100.92%
Zn 213.857†            38923.9      492.80 µg/L        11.860      492.80 ppb         11.860   2.41%
   QC value within limits for Zn 213.857  Recovery = 98.56%
QC Failed.  Continue with analysis.
```

Sequence No.: 31 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/6/2013 19:31:28**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22346.0	22346.0	101	%			19:32:15
1	Al 396.153Radial†	-95.8	-3.3	-5.2779	µg/L	-5.2779	ppb	19:32:15
1	Ca 317.933Radial†	100.8	17.0	11.599	µg/L	11.599	ppb	19:32:35
1	Fe 238.204 Radial†	34.5	5.9	20.112	µg/L	20.112	ppb	19:32:35
1	K 766.490 Radial†	670.6	8.5	10.533	µg/L	10.533	ppb	19:32:15
1	Mg 279.077 IEC†	3.4	-1.0	-6.9223	µg/L	-6.9223	ppb	19:32:35
1	Na 589.592 Radial†	106.1	137.5	107.51	µg/L	107.51	ppb	19:32:15
1	Sr 421.552†	53.5	19.1	0.2181	µg/L	0.2181	ppb	19:32:15
1	Sc 361.383	1290064.1	1290064.1	102.40	%			19:34:13
1	Y 371.029	762305.1	762305.1	102.30	%			19:34:13
1	Ag 328.068†	429.5	-250.2	-1.6695	µg/L	-1.6695	ppb	19:34:15
1	As 188.979†	-3.5	-0.9	-1.8081	µg/L	-1.8081	ppb	19:34:35
1	B 249.677†	605.8	332.1	3.9347	µg/L	3.9347	ppb	19:34:35
1	Ba 233.527†	-83.5	1.0	0.0137	µg/L	0.0137	ppb	19:34:35
1	Be 313.107†	-7026.3	7.3	0.0031	µg/L	0.0031	ppb	19:34:15
1	Cd 226.502†	-99.8	12.0	0.1845	µg/L	0.1845	ppb	19:34:35
1	Co 228.616†	-110.3	-9.3	-0.2737	µg/L	-0.2737	ppb	19:34:35
1	Cr 267.716†	127.4	4.7	0.0890	µg/L	0.0890	ppb	19:34:35
1	Cu 324.752†	3989.2	34.0	0.2285	µg/L	0.2285	ppb	19:34:15
1	Mn 257.610†	231.4	20.7	0.0611	µg/L	0.0611	ppb	19:34:35
1	Mo 202.031†	-5.7	3.3	0.3681	µg/L	0.3681	ppb	19:34:35
1	Ni 231.604†	-52.5	-8.5	-0.2527	µg/L	-0.2527	ppb	19:34:35
1	P 214.914†	-69.5	-7.8	-8.3381	µg/L	-8.3381	ppb	19:34:35
1	Pb 220.353†	103.5	-1.3	-0.2832	µg/L	-0.2832	ppb	19:34:35
1	S 181.975 Axial†	28.9	5.3	17.247	µg/L	17.247	ppb	19:34:35
1	Sb 206.836†	8.8	3.3	2.0843	µg/L	2.0843	ppb	19:34:35
1	Se 196.026†	18.0	6.5	8.81	µg/L	8.81	ppb	19:34:35
1	SiO2†	2045.1	175.9	32.380	µg/L	32.380	ppb	19:34:15
1	Si 251.611†	844.2	411.3	12.104	µg/L	12.104	ppb	19:34:35
1	Sn 189.927†	5.9	7.6	3.0841	µg/L	3.0841	ppb	19:34:35
1	Ti 334.940†	1565.0	-56.3	-0.1024	µg/L	-0.1024	ppb	19:34:15
1	Tl 190.801†	-15.9	0.8	0.9425	µg/L	0.9425	ppb	19:34:35
1	U 367.007†	308.7	-13.5	-3.8140	µg/L	-3.8140	ppb	19:34:15
1	V 292.402†	371.6	0.7	0.0103	µg/L	0.0103	ppb	19:34:15
1	Zn 213.857†	547.4	-8.4	-0.1074	µg/L	-0.1074	ppb	19:34:35
2	Sc RADIAL	22318.8	22318.8	101	%			19:32:55
2	Al 396.153Radial†	-88.1	4.2	6.7223	µg/L	6.7223	ppb	19:32:55
2	Ca 317.933Radial†	96.5	13.0	8.8472	µg/L	8.8472	ppb	19:33:15
2	Fe 238.204 Radial†	31.7	3.1	10.700	µg/L	10.700	ppb	19:33:15
2	K 766.490 Radial†	695.2	33.6	41.592	µg/L	41.592	ppb	19:32:55
2	Mg 279.077 IEC†	2.4	-1.9	-13.529	µg/L	-13.529	ppb	19:33:15
2	Na 589.592 Radial†	73.9	105.8	82.733	µg/L	82.733	ppb	19:32:55
2	Sr 421.552†	55.8	21.5	0.2448	µg/L	0.2448	ppb	19:32:55
2	Sc 361.383	1286302.6	1286302.6	102.10	%			19:34:37
2	Y 371.029	760205.1	760205.1	102.02	%			19:34:37
2	Ag 328.068†	641.1	-41.8	-0.2799	µg/L	-0.2799	ppb	19:34:39
2	As 188.979†	-3.6	-1.0	-1.9180	µg/L	-1.9180	ppb	19:34:59
2	B 249.677†	567.3	296.2	3.5248	µg/L	3.5248	ppb	19:34:59
2	Ba 233.527†	-83.4	0.9	0.0137	µg/L	0.0137	ppb	19:34:59
2	Be 313.107†	-6917.7	93.5	0.0405	µg/L	0.0405	ppb	19:34:39
2	Cd 226.502†	-106.3	5.4	0.0834	µg/L	0.0834	ppb	19:34:59
2	Co 228.616†	-93.7	6.6	0.1948	µg/L	0.1948	ppb	19:34:59
2	Cr 267.716†	118.0	-4.1	-0.0765	µg/L	-0.0765	ppb	19:34:59
2	Cu 324.752†	3876.9	-64.6	-0.4305	µg/L	-0.4305	ppb	19:34:39
2	Mn 257.610†	212.0	2.4	0.0078	µg/L	0.0078	ppb	19:34:59
2	Mo 202.031†	-5.4	3.6	0.4030	µg/L	0.4030	ppb	19:34:59
2	Ni 231.604†	-43.0	0.7	0.0219	µg/L	0.0219	ppb	19:34:59
2	P 214.914†	-63.9	-2.5	-2.7134	µg/L	-2.7134	ppb	19:34:59
2	Pb 220.353†	125.7	20.6	4.4254	µg/L	4.4254	ppb	19:34:59

2	S 181.975 Axial†	31.8	8.2	26.892	µg/L	26.892	ppb	19:34:59
2	Sb 206.836†	3.5	-1.9	-1.1807	µg/L	-1.1807	ppb	19:34:59
2	Se 196.026†	4.9	-6.3	-8.52	µg/L	-8.52	ppb	19:34:59
2	SiO2†	2051.9	188.5	34.688	µg/L	34.688	ppb	19:34:39
2	Si 251.611†	839.8	409.4	12.046	µg/L	12.046	ppb	19:34:59
2	Sn 189.927†	1.0	2.8	1.1289	µg/L	1.1289	ppb	19:34:59
2	Ti 334.940†	1545.5	-71.0	-0.1325	µg/L	-0.1325	ppb	19:34:39
2	Tl 190.801†	-14.2	2.3	2.8248	µg/L	2.8248	ppb	19:34:59
2	U 367.007†	328.0	6.2	1.6522	µg/L	1.6522	ppb	19:34:39
2	V 292.402†	409.6	38.9	0.2817	µg/L	0.2817	ppb	19:34:39
2	Zn 213.857†	550.5	-3.8	-0.0488	µg/L	-0.0488	ppb	19:34:59
3	Sc RADIAL	21882.3	21882.3	99.4	%			19:33:35
3	Al 396.153Radial†	-92.5	-1.9	-3.0300	µg/L	-3.0300	ppb	19:33:35
3	Ca 317.933Radial†	97.3	15.7	10.664	µg/L	10.664	ppb	19:33:55
3	Fe 238.204 Radial†	29.4	1.5	4.9899	µg/L	4.9899	ppb	19:33:55
3	K 766.490 Radial†	673.0	25.0	30.885	µg/L	30.885	ppb	19:33:35
3	Mg 279.077 IEC†	7.4	3.2	22.450	µg/L	22.450	ppb	19:33:55
3	Na 589.592 Radial†	62.1	95.4	74.592	µg/L	74.592	ppb	19:33:35
3	Sr 421.552†	51.9	18.6	0.2119	µg/L	0.2119	ppb	19:33:35
3	Sc 361.383	1289378.7	1289378.7	102.34	%			19:35:01
3	Y 371.029	761833.6	761833.6	102.24	%			19:35:01
3	Ag 328.068†	532.2	-149.6	-1.0057	µg/L	-1.0057	ppb	19:35:03
3	As 188.979†	-5.4	-2.7	-5.3475	µg/L	-5.3475	ppb	19:35:23
3	B 249.677†	585.9	313.0	3.7544	µg/L	3.7544	ppb	19:35:23
3	Ba 233.527†	-96.2	-11.4	-0.1612	µg/L	-0.1612	ppb	19:35:23
3	Be 313.107†	-7052.4	-21.9	-0.0095	µg/L	-0.0095	ppb	19:35:03
3	Cd 226.502†	-101.9	10.0	0.1553	µg/L	0.1553	ppb	19:35:23
3	Co 228.616†	-88.8	11.6	0.3439	µg/L	0.3439	ppb	19:35:23
3	Cr 267.716†	120.1	-2.4	-0.0470	µg/L	-0.0470	ppb	19:35:23
3	Cu 324.752†	3926.1	-25.6	-0.1681	µg/L	-0.1681	ppb	19:35:03
3	Mn 257.610†	217.3	7.1	0.0200	µg/L	0.0200	ppb	19:35:23
3	Mo 202.031†	2.2	11.0	1.2411	µg/L	1.2411	ppb	19:35:23
3	Ni 231.604†	-32.5	11.1	0.3302	µg/L	0.3302	ppb	19:35:23
3	P 214.914†	-72.2	-10.5	-11.173	µg/L	-11.173	ppb	19:35:23
3	Pb 220.353†	110.4	5.5	1.1711	µg/L	1.1711	ppb	19:35:23
3	S 181.975 Axial†	26.6	3.1	10.097	µg/L	10.097	ppb	19:35:23
3	Sb 206.836†	7.1	1.6	1.0431	µg/L	1.0431	ppb	19:35:23
3	Se 196.026†	8.8	-2.5	-3.45	µg/L	-3.45	ppb	19:35:23
3	SiO2†	1995.2	128.3	23.611	µg/L	23.611	ppb	19:35:03
3	Si 251.611†	837.6	405.3	11.914	µg/L	11.914	ppb	19:35:23
3	Sn 189.927†	2.8	4.6	1.8686	µg/L	1.8686	ppb	19:35:23
3	Ti 334.940†	1405.0	-211.9	-0.3973	µg/L	-0.3973	ppb	19:35:03
3	Tl 190.801†	-14.0	2.6	3.1532	µg/L	3.1532	ppb	19:35:23
3	U 367.007†	343.3	20.4	5.5733	µg/L	5.5733	ppb	19:35:03
3	V 292.402†	324.6	-45.2	-0.2991	µg/L	-0.2991	ppb	19:35:03
3	Zn 213.857†	551.6	-4.0	-0.0536	µg/L	-0.0536	ppb	19:35:23

Mean Data: CCB

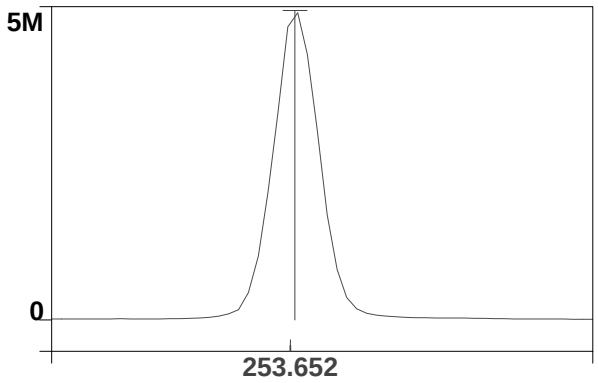
Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1288581.8	102.28	%	0.159				0.16%
Sc RADIAL	22182.4	101	%	1.2				1.17%
Y 371.029	761447.9	102.19	%	0.148				0.14%
Ag 328.068†	-147.2	-0.9850	µg/L	0.69504	-0.9850	ppb	0.69504	70.56%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-0.3	-0.5285	µg/L	6.37924	-0.5285	ppb	6.37924	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.5	-3.0245	µg/L	2.01248	-3.0245	ppb	2.01248	66.54%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	313.8	3.7380	µg/L	0.20545	3.7380	ppb	0.20545	5.50%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-3.2	-0.0446	µg/L	0.10099	-0.0446	ppb	0.10099	226.44%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	26.3	0.0114	µg/L	0.02602	0.0114	ppb	0.02602	228.12%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	15.2	10.370	µg/L	1.3993	10.370	ppb	1.3993	13.49%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	9.1	0.1411	µg/L	0.05202	0.1411	ppb	0.05202	36.87%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	3.0	0.0883	µg/L	0.32226	0.0883	ppb	0.32226	364.88%

```
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -0.6     -0.0115 µg/L       0.08831     -0.0115 ppb        0.08831 769.17%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -18.7     -0.1234 µg/L       0.33178     -0.1234 ppb        0.33178 268.91%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          3.5      11.934 µg/L        7.6364      11.934 ppb         7.6364  63.99%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          22.4      27.670 µg/L       15.7769      27.670 ppb        15.7769  57.02%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             0.1      0.6661 µg/L      19.15239      0.6661 ppb       19.15239 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                10.1      0.0296 µg/L       0.02793      0.0296 ppb        0.02793  94.23%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 5.9      0.6707 µg/L       0.49426      0.6707 ppb        0.49426  73.69%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        112.9      88.278 µg/L       17.1450      88.278 ppb        17.1450  19.42%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 1.1      0.0331 µg/L       0.29164      0.0331 ppb        0.29164 880.19%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -7.0     -7.4082 µg/L       4.30586     -7.4082 ppb        4.30586  58.12%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 8.3      1.7711 µg/L       2.41097      1.7711 ppb        2.41097 136.13%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            5.5      18.079 µg/L        8.4286      18.079 ppb         8.4286  46.62%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 1.0      0.6489 µg/L       1.66777      0.6489 ppb        1.66777 257.02%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -0.8       -1.05 µg/L         8.909       -1.05 ppb          8.909 846.80%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     164.2      30.226 µg/L        5.8438      30.226 ppb         5.8438  19.33%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               408.7      12.021 µg/L        0.0975      12.021 ppb         0.0975   0.81%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 5.0      2.0272 µg/L       0.98720      2.0272 ppb        0.98720  48.70%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                19.7      0.2250 µg/L       0.01748      0.2250 ppb        0.01748   7.77%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -113.1     -0.2108 µg/L       0.16225     -0.2108 ppb        0.16225  76.98%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.9      2.3068 µg/L       1.19289      2.3068 ppb        1.19289  51.71%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                  4.4      1.1372 µg/L       4.71479      1.1372 ppb        4.71479 414.61%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                 -1.9     -0.0024 µg/L       0.29063     -0.0024 ppb        0.29063 >999.9%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                -5.4     -0.0700 µg/L       0.03255     -0.0700 ppb        0.03255  46.52%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Method: Hg_ReAlign
Result: 110713

Sample ID: Hg_ReAlign

Hg 253.652 **Rep: 1**



Intensity: 4542042.2 cps
Conc:

1

==========

11/7/2013 11:02:09 Hg ReAlign... Actual peak offset (nm): -0.003
Drift (nm): -0.000 Slit adjustment: 5

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Analysis Begun

Start Time: 11/7/2013 11:02:24 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110713.sif
Batch ID:
Results Data Set: 110713
Results Library: C:\pe\optima4\Results\Results.mdb

==========

Method Loaded
Method Name: Gen Eng fast_new SiU **Method Last Saved: 11/6/2013 14:23:52**
IEC File: 101613.iec **MSF File:**
Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
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
SiO2	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 367.007	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: S0 **Date Collected: 11/7/2013 11:02:26**
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	21856.9	21856.9	102	%	11:03:19
1	Al 396.153Radial†	-90.4	-88.8	[0.00]	µg/L	11:03:19
1	Ca 317.933Radial†	74.6	73.4	[0.00]	µg/L	11:03:39
1	Fe 238.204 Radial†	32.3	31.8	[0.00]	µg/L	11:03:39
1	K 766.490 Radial†	670.4	659.1	[0.00]	µg/L	11:03:19
1	Mg 279.077 IEC†	5.4	5.3	[0.00]	µg/L	11:03:39
1	Na 589.592 Radial†	-50.3	-49.4	[0.00]	µg/L	11:03:19
1	Sr 421.552†	40.4	39.7	[0.00]	µg/L	11:03:19
1	Sc 361.383	1193767.1	1193767.1	99.757	%	11:05:16
1	Y 371.029	704895.8	704895.8	99.763	%	11:05:16
1	Ag 328.068†	589.6	591.1	[0.00]	µg/L	11:05:18
1	As 188.979†	-4.0	-4.0	[0.00]	µg/L	11:05:38
1	B 249.677†	253.9	254.5	[0.00]	µg/L	11:05:38
1	Ba 233.527†	-89.9	-90.1	[0.00]	µg/L	11:05:38
1	Be 313.107†	-6720.4	-6736.8	[0.00]	µg/L	11:05:18
1	Cd 226.502†	-96.9	-97.2	[0.00]	µg/L	11:05:38
1	Co 228.616†	-99.7	-100.0	[0.00]	µg/L	11:05:38
1	Cr 267.716†	129.5	129.9	[0.00]	µg/L	11:05:38
1	Cu 324.752†	3943.9	3953.5	[0.00]	µg/L	11:05:18
1	Mn 257.610†	179.7	180.2	[0.00]	µg/L	11:05:38
1	Mo 202.031†	-10.1	-10.1	[0.00]	µg/L	11:05:38
1	Ni 231.604†	-42.5	-42.7	[0.00]	µg/L	11:05:38
1	P 214.914†	-78.2	-78.3	[0.00]	µg/L	11:05:38
1	Pb 220.353†	97.9	98.2	[0.00]	µg/L	11:05:38
1	S 181.975 Axial†	20.7	20.8	[0.00]	µg/L	11:05:38
1	Sb 206.836†	4.8	4.9	[0.00]	µg/L	11:05:38
1	Se 196.026†	19.2	19.3	[0.00]	µg/L	11:05:38
1	SiO2†	1890.0	1894.6	[0.00]	µg/L	11:05:38
1	Si 251.611†	347.9	348.7	[0.00]	µg/L	11:05:38
1	Sn 189.927†	7.3	7.4	[0.00]	µg/L	11:05:38
1	Ti 334.940†	1496.0	1499.7	[0.00]	µg/L	11:05:18
1	Tl 190.801†	-13.9	-14.0	[0.00]	µg/L	11:05:38
1	U 367.007†	307.3	308.1	[0.00]	µg/L	11:05:18
1	V 292.402†	311.5	312.3	[0.00]	µg/L	11:05:18
1	Zn 213.857†	532.7	534.0	[0.00]	µg/L	11:05:38
2	Sc RADIAL	21001.0	21001.0	97.7	%	11:03:59
2	Al 396.153Radial†	-89.8	-91.8	[0.00]	µg/L	11:03:59
2	Ca 317.933Radial†	60.8	62.2	[0.00]	µg/L	11:04:19
2	Fe 238.204 Radial†	28.7	29.4	[0.00]	µg/L	11:04:19
2	K 766.490 Radial†	691.3	707.3	[0.00]	µg/L	11:03:59
2	Mg 279.077 IEC†	1.4	1.4	[0.00]	µg/L	11:04:19
2	Na 589.592 Radial†	-44.1	-45.1	[0.00]	µg/L	11:03:59
2	Sr 421.552†	37.1	38.0	[0.00]	µg/L	11:03:59
2	Sc 361.383	1224379.2	1224379.2	102.31	%	11:05:41
2	Y 371.029	722816.7	722816.7	102.30	%	11:05:41
2	Ag 328.068†	667.5	652.4	[0.00]	µg/L	11:05:43
2	As 188.979†	-2.1	-2.0	[0.00]	µg/L	11:06:03
2	B 249.677†	249.3	243.6	[0.00]	µg/L	11:06:03
2	Ba 233.527†	-95.3	-93.2	[0.00]	µg/L	11:06:03
2	Be 313.107†	-6803.8	-6649.9	[0.00]	µg/L	11:05:43
2	Cd 226.502†	-99.0	-96.8	[0.00]	µg/L	11:06:03
2	Co 228.616†	-98.5	-96.2	[0.00]	µg/L	11:06:03
2	Cr 267.716†	118.5	115.8	[0.00]	µg/L	11:06:03
2	Cu 324.752†	4051.0	3959.4	[0.00]	µg/L	11:05:43
2	Mn 257.610†	203.1	198.6	[0.00]	µg/L	11:06:03
2	Mo 202.031†	-7.2	-7.0	[0.00]	µg/L	11:06:03
2	Ni 231.604†	-29.7	-29.0	[0.00]	µg/L	11:06:03
2	P 214.914†	-63.5	-62.0	[0.00]	µg/L	11:06:03
2	Pb 220.353†	106.3	103.9	[0.00]	µg/L	11:06:03
2	S 181.975 Axial†	27.1	26.5	[0.00]	µg/L	11:06:03
2	Sb 206.836†	7.9	7.7	[0.00]	µg/L	11:06:03
2	Se 196.026†	13.9	13.6	[0.00]	µg/L	11:06:03
2	SiO2†	1908.6	1865.4	[0.00]	µg/L	11:06:03
2	Si 251.611†	362.6	354.4	[0.00]	µg/L	11:06:03
2	Sn 189.927†	2.8	2.7	[0.00]	µg/L	11:06:03
2	Ti 334.940†	1563.0	1527.6	[0.00]	µg/L	11:05:43
2	Tl 190.801†	-23.3	-22.8	[0.00]	µg/L	11:06:03
2	U 367.007†	337.0	329.4	[0.00]	µg/L	11:05:43
2	V 292.402†	403.9	394.8	[0.00]	µg/L	11:05:43
2	Zn 213.857†	533.8	521.7	[0.00]	µg/L	11:06:03
3	Sc RADIAL	21604.8	21604.8	101	%	11:04:39

3	Al 396.153Radial†	-108.6	-108.0	[0.00]	µg/L	11:04:39
3	Ca 317.933Radial†	65.8	65.4	[0.00]	µg/L	11:04:59
3	Fe 238.204 Radial†	30.6	30.5	[0.00]	µg/L	11:04:59
3	K 766.490 Radial†	677.2	673.6	[0.00]	µg/L	11:04:39
3	Mg 279.077 IEC†	2.9	2.9	[0.00]	µg/L	11:04:59
3	Na 589.592 Radial†	-31.2	-31.0	[0.00]	µg/L	11:04:39
3	Sr 421.552†	36.5	36.3	[0.00]	µg/L	11:04:39
3	Sc 361.383	1171892.4	1171892.4	97.929	%	11:06:05
3	Y 371.029	692005.1	692005.1	97.938	%	11:06:05
3	Ag 328.068†	680.6	695.0	[0.00]	µg/L	11:06:07
3	As 188.979†	-2.1	-2.1	[0.00]	µg/L	11:06:27
3	B 249.677†	262.0	267.5	[0.00]	µg/L	11:06:27
3	Ba 233.527†	-86.0	-87.9	[0.00]	µg/L	11:06:27
3	Be 313.107†	-6837.8	-6982.4	[0.00]	µg/L	11:06:07
3	Cd 226.502†	-74.0	-75.6	[0.00]	µg/L	11:06:27
3	Co 228.616†	-118.1	-120.6	[0.00]	µg/L	11:06:27
3	Cr 267.716†	115.6	118.0	[0.00]	µg/L	11:06:27
3	Cu 324.752†	4068.2	4154.2	[0.00]	µg/L	11:06:07
3	Mn 257.610†	211.0	215.5	[0.00]	µg/L	11:06:27
3	Mo 202.031†	-10.9	-11.1	[0.00]	µg/L	11:06:27
3	Ni 231.604†	-40.7	-41.6	[0.00]	µg/L	11:06:27
3	P 214.914†	-62.7	-64.0	[0.00]	µg/L	11:06:27
3	Pb 220.353†	120.7	123.3	[0.00]	µg/L	11:06:27
3	S 181.975 Axial†	26.4	27.0	[0.00]	µg/L	11:06:27
3	Sb 206.836†	6.8	7.0	[0.00]	µg/L	11:06:27
3	Se 196.026†	17.3	17.7	[0.00]	µg/L	11:06:27
3	SiO2†	1877.6	1917.3	[0.00]	µg/L	11:06:27
3	Si 251.611†	353.4	360.8	[0.00]	µg/L	11:06:27
3	Sn 189.927†	1.6	1.7	[0.00]	µg/L	11:06:27
3	Ti 334.940†	1503.1	1534.8	[0.00]	µg/L	11:06:07
3	Tl 190.801†	-10.5	-10.7	[0.00]	µg/L	11:06:27
3	U 367.007†	316.4	323.1	[0.00]	µg/L	11:06:07
3	V 292.402†	323.0	329.8	[0.00]	µg/L	11:06:07
3	Zn 213.857†	507.5	518.3	[0.00]	µg/L	11:06:27

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1196679.5	26364.34	2.20%	100.00	%
Sc RADIAL	21487.5	439.83	2.05%	100	%
Y 371.029	706572.5	15474.09	2.19%	100.00	%
Ag 328.068†	646.2	52.22	8.08%	[0.00]	µg/L
Al 396.153Radial†	-96.2	10.31	10.72%	[0.00]	µg/L
As 188.979†	-2.7	1.09	40.30%	[0.00]	µg/L
B 249.677†	255.2	11.94	4.68%	[0.00]	µg/L
Ba 233.527†	-90.4	2.67	2.95%	[0.00]	µg/L
Be 313.107†	-6789.7	172.47	2.54%	[0.00]	µg/L
Ca 317.933Radial†	67.0	5.76	8.60%	[0.00]	µg/L
Cd 226.502†	-89.8	12.33	13.73%	[0.00]	µg/L
Co 228.616†	-105.6	13.13	12.43%	[0.00]	µg/L
Cr 267.716†	121.2	7.55	6.23%	[0.00]	µg/L
Cu 324.752†	4022.4	114.21	2.84%	[0.00]	µg/L
Fe 238.204 Radial†	30.5	1.20	3.93%	[0.00]	µg/L
K 766.490 Radial†	680.0	24.74	3.64%	[0.00]	µg/L
Mg 279.077 IEC†	3.2	1.96	61.17%	[0.00]	µg/L
Mn 257.610†	198.1	17.65	8.91%	[0.00]	µg/L
Mo 202.031†	-9.4	2.14	22.66%	[0.00]	µg/L
Na 589.592 Radial†	-41.9	9.63	23.00%	[0.00]	µg/L
Ni 231.604†	-37.7	7.57	20.06%	[0.00]	µg/L
P 214.914†	-68.1	8.90	13.06%	[0.00]	µg/L
Pb 220.353†	108.4	13.14	12.12%	[0.00]	µg/L
S 181.975 Axial†	24.7	3.43	13.85%	[0.00]	µg/L
Sb 206.836†	6.5	1.49	22.82%	[0.00]	µg/L
Se 196.026†	16.8	2.95	17.51%	[0.00]	µg/L
SiO2†	1892.4	25.99	1.37%	[0.00]	µg/L
Si 251.611†	354.7	6.07	1.71%	[0.00]	µg/L
Sn 189.927†	3.9	3.02	77.11%	[0.00]	µg/L
Sr 421.552†	38.0	1.68	4.42%	[0.00]	µg/L
Ti 334.940†	1520.7	18.59	1.22%	[0.00]	µg/L
Tl 190.801†	-15.8	6.22	39.35%	[0.00]	µg/L

U 367.007†	320.2	10.94	3.42%	[0.00] µg/L
V 292.402†	345.6	43.43	12.57%	[0.00] µg/L
Zn 213.857†	524.6	8.25	1.57%	[0.00] µg/L

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Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S0.1 **Date Collected: 11/7/2013 11:06:35**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	21604.4	21604.4	101	%	11:07:06
1	K 766.490 Radial†	1291.7	604.7	[1000]	µg/L	11:07:06
1	Sr 421.552†	8510.3	8426.3	[100]	µg/L	11:07:06
1	Sc 361.383	1167038.3	1167038.3	97.523	%	11:07:27
1	Y 371.029	685675.8	685675.8	97.043	%	11:07:27
1	Ag 328.068†	14418.6	14138.6	[100]	µg/L	11:07:29
1	As 188.979†	41.0	44.7	[100]	µg/L	11:07:49
1	B 249.677†	7676.8	7616.6	[100]	µg/L	11:07:29
1	Ba 233.527†	6395.7	6648.6	[100]	µg/L	11:07:29
1	Be 313.107†	212049.1	224224.6	[100]	µg/L	11:07:27
1	Cd 226.502†	5689.8	5924.1	[100]	µg/L	11:07:29
1	Co 228.616†	3209.8	3396.9	[100]	µg/L	11:07:49
1	Cr 267.716†	5151.7	5161.3	[100]	µg/L	11:07:29
1	Cu 324.752†	17214.5	13629.4	[100]	µg/L	11:07:29
1	Mn 257.610†	31944.9	32558.2	[100]	µg/L	11:07:29
1	Mo 202.031†	825.9	856.3	[100]	µg/L	11:07:49
1	Ni 231.604†	3124.5	3241.6	[100]	µg/L	11:07:29
1	P 214.914†	425.3	504.3	[500]	µg/L	11:07:49
1	Pb 220.353†	537.6	442.8	[100]	µg/L	11:07:49
1	S 181.975 Axial†	87.8	65.3	[200]	µg/L	11:07:49
1	Sb 206.836†	164.0	161.6	[100]	µg/L	11:07:49
1	Se 196.026†	83.2	68.5	[100]	µg/L	11:07:49
1	SiO2†	7225.0	5516.1	[1069.5]	µg/L	11:07:29
1	Si 251.611†	16028.1	16080.5	[500]	µg/L	11:07:29
1	Sn 189.927†	253.6	256.1	[100]	µg/L	11:07:49
1	Ti 334.940†	49858.1	49603.7	[100]	µg/L	11:07:29
1	Tl 190.801†	54.9	72.1	[100]	µg/L	11:07:49
1	U 367.007†	612.4	307.8	[100]	µg/L	11:07:29
1	V 292.402†	13262.2	13253.4	[100]	µg/L	11:07:29
1	Zn 213.857†	7711.6	7382.8	[100]	µg/L	11:07:29
2	Sc RADIAL	21645.6	21645.6	101	%	11:07:08
2	K 766.490 Radial†	1429.8	739.3	[1000]	µg/L	11:07:08
2	Sr 421.552†	8579.0	8478.4	[100]	µg/L	11:07:08
2	Sc 361.383	1156579.3	1156579.3	96.649	%	11:07:52
2	Y 371.029	679640.0	679640.0	96.188	%	11:07:52
2	Ag 328.068†	14471.1	14326.6	[100]	µg/L	11:07:54
2	As 188.979†	34.8	38.7	[100]	µg/L	11:08:14
2	B 249.677†	7768.3	7782.4	[100]	µg/L	11:07:54
2	Ba 233.527†	6538.3	6855.3	[100]	µg/L	11:07:54
2	Be 313.107†	209636.6	223694.7	[100]	µg/L	11:07:52
2	Cd 226.502†	5945.0	6240.9	[100]	µg/L	11:07:54
2	Co 228.616†	3045.9	3257.1	[100]	µg/L	11:08:14
2	Cr 267.716†	5305.2	5367.9	[100]	µg/L	11:07:54
2	Cu 324.752†	17609.8	14198.0	[100]	µg/L	11:07:54
2	Mn 257.610†	32797.2	33736.2	[100]	µg/L	11:07:54
2	Mo 202.031†	789.1	825.9	[100]	µg/L	11:08:14
2	Ni 231.604†	3218.2	3367.5	[100]	µg/L	11:07:54
2	P 214.914†	408.8	491.1	[500]	µg/L	11:08:14
2	Pb 220.353†	525.8	435.6	[100]	µg/L	11:08:14
2	S 181.975 Axial†	78.5	56.5	[200]	µg/L	11:08:14
2	Sb 206.836†	158.3	157.2	[100]	µg/L	11:08:14
2	Se 196.026†	81.0	67.0	[100]	µg/L	11:08:14
2	SiO2†	7305.3	5666.2	[1069.5]	µg/L	11:07:54
2	Si 251.611†	16408.7	16622.9	[500]	µg/L	11:07:54
2	Sn 189.927†	233.0	237.2	[100]	µg/L	11:08:14
2	Ti 334.940†	51158.0	51411.1	[100]	µg/L	11:07:54
2	Tl 190.801†	52.0	69.6	[100]	µg/L	11:08:14
2	U 367.007†	633.7	335.5	[100]	µg/L	11:07:54
2	V 292.402†	13689.3	13818.3	[100]	µg/L	11:07:54

2	Zn 213.857†	7852.4	7600.0	[100]	µg/L	11:07:54
3	Sc RADIAL	21819.7	21819.7	102	%	11:07:10
3	K 766.490 Radial†	1460.8	758.5	[1000]	µg/L	11:07:10
3	Sr 421.552†	8715.9	8545.2	[100]	µg/L	11:07:10
3	Sc 361.383	1186235.3	1186235.3	99.127	%	11:08:16
3	Y 371.029	697270.2	697270.2	98.683	%	11:08:16
3	Ag 328.068†	14716.6	14200.0	[100]	µg/L	11:08:18
3	As 188.979†	34.7	37.7	[100]	µg/L	11:08:38
3	B 249.677†	7978.7	7793.7	[100]	µg/L	11:08:18
3	Ba 233.527†	6717.8	6867.3	[100]	µg/L	11:08:18
3	Be 313.107†	216901.0	225600.4	[100]	µg/L	11:08:16
3	Cd 226.502†	6091.8	6235.3	[100]	µg/L	11:08:18
3	Co 228.616†	3205.9	3339.7	[100]	µg/L	11:08:38
3	Cr 267.716†	5395.8	5322.0	[100]	µg/L	11:08:18
3	Cu 324.752†	17896.9	14032.1	[100]	µg/L	11:08:18
3	Mn 257.610†	33529.3	33626.4	[100]	µg/L	11:08:18
3	Mo 202.031†	820.6	837.3	[100]	µg/L	11:08:38
3	Ni 231.604†	3298.9	3365.6	[100]	µg/L	11:08:18
3	P 214.914†	434.1	506.0	[500]	µg/L	11:08:38
3	Pb 220.353†	545.5	441.9	[100]	µg/L	11:08:38
3	S 181.975 Axial†	83.8	59.8	[200]	µg/L	11:08:38
3	Sb 206.836†	158.0	152.9	[100]	µg/L	11:08:38
3	Se 196.026†	84.5	68.3	[100]	µg/L	11:08:38
3	SiO2†	7425.4	5598.4	[1069.5]	µg/L	11:08:18
3	Si 251.611†	16749.8	16542.6	[500]	µg/L	11:08:18
3	Sn 189.927†	256.9	255.2	[100]	µg/L	11:08:38
3	Ti 334.940†	52212.2	51151.2	[100]	µg/L	11:08:18
3	Tl 190.801†	55.8	72.1	[100]	µg/L	11:08:38
3	U 367.007†	598.4	283.5	[100]	µg/L	11:08:18
3	V 292.402†	13957.8	13735.0	[100]	µg/L	11:08:18
3	Zn 213.857†	8009.5	7555.4	[100]	µg/L	11:08:18

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1169951.0	15041.04	1.29%	97.766	%
Sc RADIAL	21689.9	114.30	0.53%	101	%
Y 371.029	687528.7	8959.96	1.30%	97.305	%
Ag 328.068†	14221.8	95.87	0.67%	[100]	µg/L
As 188.979†	40.4	3.80	9.41%	[100]	µg/L
B 249.677†	7730.9	99.18	1.28%	[100]	µg/L
Ba 233.527†	6790.4	122.98	1.81%	[100]	µg/L
Be 313.107†	224506.6	983.66	0.44%	[100]	µg/L
Cd 226.502†	6133.4	181.29	2.96%	[100]	µg/L
Co 228.616†	3331.2	70.28	2.11%	[100]	µg/L
Cr 267.716†	5283.7	108.48	2.05%	[100]	µg/L
Cu 324.752†	13953.2	292.42	2.10%	[100]	µg/L
K 766.490 Radial†	700.9	83.83	11.96%	[1000]	µg/L
Mn 257.610†	33307.0	650.75	1.95%	[100]	µg/L
Mo 202.031†	839.8	15.37	1.83%	[100]	µg/L
Ni 231.604†	3324.9	72.17	2.17%	[100]	µg/L
P 214.914†	500.5	8.15	1.63%	[500]	µg/L
Pb 220.353†	440.1	3.94	0.89%	[100]	µg/L
S 181.975 Axial†	60.5	4.44	7.34%	[200]	µg/L
Sb 206.836†	157.3	4.38	2.79%	[100]	µg/L
Se 196.026†	67.9	0.84	1.23%	[100]	µg/L
SiO2†	5593.5	75.14	1.34%	[1069.5]	µg/L
Si 251.611†	16415.4	292.74	1.78%	[500]	µg/L
Sn 189.927†	249.5	10.68	4.28%	[100]	µg/L
Sr 421.552†	8483.3	59.63	0.70%	[100]	µg/L
Ti 334.940†	50722.0	977.14	1.93%	[100]	µg/L
Tl 190.801†	71.3	1.42	1.99%	[100]	µg/L
U 367.007†	308.9	26.05	8.43%	[100]	µg/L
V 292.402†	13602.2	304.94	2.24%	[100]	µg/L
Zn 213.857†	7512.7	114.73	1.53%	[100]	µg/L

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Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S0.5 **Date Collected: 11/7/2013 11:08:46**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	21525.1	21525.1	100	%	11:09:16
1	Al 396.153Radial†	2894.3	2985.4	[5000]	µg/L	11:09:36
1	Ca 317.933Radial†	7791.2	7710.6	[5000]	µg/L	11:09:36
1	K 766.490 Radial†	4552.6	3864.6	[5000]	µg/L	11:09:16
1	Mg 279.077 IEC†	772.0	767.5	[5000]	µg/L	11:09:36
1	Sr 421.552†	42564.6	42452.4	[500]	µg/L	11:09:16
1	Sc 361.383	1240335.2	1240335.2	103.65	%	11:10:38
1	Y 371.029	717869.0	717869.0	101.60	%	11:10:38
1	Ag 328.068†	74612.6	71340.3	[500]	µg/L	11:10:40
1	As 188.979†	208.4	203.8	[500]	µg/L	11:11:00
1	B 249.677†	40768.6	39078.5	[500]	µg/L	11:10:40
1	Ba 233.527†	35034.1	33891.4	[500]	µg/L	11:10:40
1	Be 313.107†	1157868.8	1123905.4	[500]	µg/L	11:10:38
1	Cd 226.502†	31937.4	30903.2	[500]	µg/L	11:10:40
1	Co 228.616†	16758.9	16274.7	[500]	µg/L	11:10:40
1	Cr 267.716†	27168.2	26090.7	[500]	µg/L	11:10:40
1	Cu 324.752†	76567.8	69850.5	[500]	µg/L	11:10:40
1	Mn 257.610†	169803.5	163628.9	[500]	µg/L	11:10:40
1	Mo 202.031†	4224.7	4085.4	[500]	µg/L	11:11:00
1	Ni 231.604†	16890.1	16333.4	[500]	µg/L	11:10:40
1	P 214.914†	2447.5	2429.5	[2500]	µg/L	11:11:00
1	Pb 220.353†	2346.1	2155.1	[500]	µg/L	11:11:00
1	S 181.975 Axial†	324.2	288.1	[1000]	µg/L	11:11:00
1	Sb 206.836†	811.5	776.5	[500]	µg/L	11:11:00
1	Se 196.026†	375.8	345.7	[500]	µg/L	11:11:00
1	SiO2†	30782.4	27806.5	[5347.5]	µg/L	11:10:40
1	Si 251.611†	85190.9	81837.8	[2500]	µg/L	11:10:40
1	Sn 189.927†	1285.0	1235.9	[500]	µg/L	11:11:00
1	Ti 334.940†	266631.7	255726.5	[500]	µg/L	11:10:40
1	Tl 190.801†	343.6	347.3	[500]	µg/L	11:11:00
1	U 367.007†	1916.5	1528.8	[500]	µg/L	11:10:40
1	V 292.402†	70751.5	67915.7	[500]	µg/L	11:10:40
1	Zn 213.857†	39371.3	37460.9	[500]	µg/L	11:10:40
2	Sc RADIAL	21471.5	21471.5	99.9	%	11:09:38
2	Al 396.153Radial†	2793.1	2891.4	[5000]	µg/L	11:09:58
2	Ca 317.933Radial†	7480.3	7418.9	[5000]	µg/L	11:09:58
2	K 766.490 Radial†	4564.8	3888.2	[5000]	µg/L	11:09:38
2	Mg 279.077 IEC†	749.7	747.1	[5000]	µg/L	11:09:58
2	Sr 421.552†	42372.8	42366.5	[500]	µg/L	11:09:38
2	Sc 361.383	1217637.2	1217637.2	101.75	%	11:11:02
2	Y 371.029	705196.6	705196.6	99.805	%	11:11:02
2	Ag 328.068†	75411.3	73467.2	[500]	µg/L	11:11:04
2	As 188.979†	223.2	222.1	[500]	µg/L	11:11:24
2	B 249.677†	41516.4	40546.6	[500]	µg/L	11:11:04
2	Ba 233.527†	35612.8	35090.2	[500]	µg/L	11:11:04
2	Be 313.107†	1139791.2	1126963.2	[500]	µg/L	11:11:02
2	Cd 226.502†	32278.7	31813.0	[500]	µg/L	11:11:04
2	Co 228.616†	17015.2	16827.9	[500]	µg/L	11:11:04
2	Cr 267.716†	27662.9	27065.5	[500]	µg/L	11:11:04
2	Cu 324.752†	77642.5	72283.8	[500]	µg/L	11:11:04
2	Mn 257.610†	172241.1	169078.5	[500]	µg/L	11:11:04
2	Mo 202.031†	4392.4	4326.2	[500]	µg/L	11:11:24
2	Ni 231.604†	17062.5	16806.6	[500]	µg/L	11:11:04
2	P 214.914†	2543.3	2567.6	[2500]	µg/L	11:11:24
2	Pb 220.353†	2442.7	2292.2	[500]	µg/L	11:11:24
2	S 181.975 Axial†	335.5	305.0	[1000]	µg/L	11:11:24
2	Sb 206.836†	845.5	824.4	[500]	µg/L	11:11:24
2	Se 196.026†	389.3	365.8	[500]	µg/L	11:11:24
2	SiO2†	31159.2	28730.4	[5347.5]	µg/L	11:11:04

2	Si 251.611†	86283.7	84444.0	[2500]	µg/L	11:11:04
2	Sn 189.927†	1327.6	1300.8	[500]	µg/L	11:11:24
2	Ti 334.940†	270323.9	264150.4	[500]	µg/L	11:11:04
2	Tl 190.801†	361.5	371.1	[500]	µg/L	11:11:24
2	U 367.007†	1989.2	1634.8	[500]	µg/L	11:11:04
2	V 292.402†	71668.8	70089.6	[500]	µg/L	11:11:04
2	Zn 213.857†	39952.2	38740.0	[500]	µg/L	11:11:04
3	Sc RADIAL	20112.3	20112.3	93.6	%	11:10:00
3	Al 396.153Radial†	2797.7	3085.2	[5000]	µg/L	11:10:20
3	Ca 317.933Radial†	7574.6	8025.5	[5000]	µg/L	11:10:20
3	K 766.490 Radial†	4350.0	3967.4	[5000]	µg/L	11:10:00
3	Mg 279.077 IEC†	759.9	808.6	[5000]	µg/L	11:10:20
3	Sr 421.552†	40577.1	43313.7	[500]	µg/L	11:10:00
3	Sc 361.383	1244206.8	1244206.8	103.97	%	11:11:26
3	Y 371.029	720352.2	720352.2	101.95	%	11:11:26
3	Ag 328.068†	75357.7	71833.0	[500]	µg/L	11:11:29
3	As 188.979†	221.6	215.9	[500]	µg/L	11:11:49
3	B 249.677†	41441.3	39603.0	[500]	µg/L	11:11:29
3	Ba 233.527†	35356.9	34096.7	[500]	µg/L	11:11:29
3	Be 313.107†	1164531.9	1126837.8	[500]	µg/L	11:11:26
3	Cd 226.502†	32121.0	30983.9	[500]	µg/L	11:11:29
3	Co 228.616†	17036.3	16491.1	[500]	µg/L	11:11:29
3	Cr 267.716†	27447.6	26277.9	[500]	µg/L	11:11:29
3	Cu 324.752†	77772.3	70779.1	[500]	µg/L	11:11:29
3	Mn 257.610†	171429.9	164683.5	[500]	µg/L	11:11:29
3	Mo 202.031†	4411.4	4252.3	[500]	µg/L	11:11:49
3	Ni 231.604†	16905.6	16297.5	[500]	µg/L	11:11:29
3	P 214.914†	2553.7	2524.3	[2500]	µg/L	11:11:49
3	Pb 220.353†	2448.4	2246.5	[500]	µg/L	11:11:49
3	S 181.975 Axial†	327.6	290.3	[1000]	µg/L	11:11:49
3	Sb 206.836†	846.6	807.7	[500]	µg/L	11:11:49
3	Se 196.026†	391.2	359.4	[500]	µg/L	11:11:49
3	SiO2†	31123.0	28041.7	[5347.5]	µg/L	11:11:29
3	Si 251.611†	86115.5	82471.4	[2500]	µg/L	11:11:29
3	Sn 189.927†	1331.0	1276.2	[500]	µg/L	11:11:49
3	Ti 334.940†	269531.4	257714.9	[500]	µg/L	11:11:29
3	Tl 190.801†	355.3	357.5	[500]	µg/L	11:11:49
3	U 367.007†	1913.9	1520.7	[500]	µg/L	11:11:29
3	V 292.402†	71212.6	68146.7	[500]	µg/L	11:11:29
3	Zn 213.857†	39707.4	37666.0	[500]	µg/L	11:11:29

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1234059.7	14353.49	1.16%	103.12	%
Sc RADIAL	21036.3	800.67	3.81%	97.9	%
Y 371.029	714472.6	8128.65	1.14%	101.12	%
Ag 328.068†	72213.5	1113.36	1.54%	[500]	µg/L
Al 396.153Radial†	2987.3	96.94	3.25%	[5000]	µg/L
As 188.979†	213.9	9.31	4.35%	[500]	µg/L
B 249.677†	39742.7	743.99	1.87%	[500]	µg/L
Ba 233.527†	34359.4	641.15	1.87%	[500]	µg/L
Be 313.107†	1125902.1	1730.32	0.15%	[500]	µg/L
Ca 317.933Radial†	7718.4	303.40	3.93%	[5000]	µg/L
Cd 226.502†	31233.3	503.58	1.61%	[500]	µg/L
Co 228.616†	16531.2	278.79	1.69%	[500]	µg/L
Cr 267.716†	26478.1	517.31	1.95%	[500]	µg/L
Cu 324.752†	70971.1	1227.96	1.73%	[500]	µg/L
K 766.490 Radial†	3906.7	53.85	1.38%	[5000]	µg/L
Mg 279.077 IEC†	774.4	31.37	4.05%	[5000]	µg/L
Mn 257.610†	165797.0	2890.36	1.74%	[500]	µg/L
Mo 202.031†	4221.3	123.38	2.92%	[500]	µg/L
Ni 231.604†	16479.1	284.12	1.72%	[500]	µg/L
P 214.914†	2507.1	70.64	2.82%	[2500]	µg/L
Pb 220.353†	2231.3	69.83	3.13%	[500]	µg/L
S 181.975 Axial†	294.5	9.18	3.12%	[1000]	µg/L
Sb 206.836†	802.9	24.35	3.03%	[500]	µg/L
Se 196.026†	357.0	10.27	2.88%	[500]	µg/L
SiO2†	28192.9	480.16	1.70%	[5347.5]	µg/L
Si 251.611†	82917.7	1359.23	1.64%	[2500]	µg/L

Sn 189.927†	1271.0	32.77	2.58%	[500] µg/L
Sr 421.552†	42710.9	523.86	1.23%	[500] µg/L
Ti 334.940†	259197.3	4403.27	1.70%	[500] µg/L
Tl 190.801†	358.6	11.92	3.32%	[500] µg/L
U 367.007†	1561.4	63.66	4.08%	[500] µg/L
V 292.402†	68717.3	1194.03	1.74%	[500] µg/L
Zn 213.857†	37955.6	686.97	1.81%	[500] µg/L

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Sequence No.: 4 **Autosampler Location: 4**
Sample ID: SCAL **Date Collected: 11/7/2013 11:11:57**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	21596.7	21596.7	101	%	11:12:46
1	Al 396.153Radial†	5756.2	5823.3	[10000]	µg/L	11:12:46
1	Ca 317.933Radial†	15212.8	15068.9	[10000]	µg/L	11:12:46
1	Fe 238.204 Radial†	3106.2	3060.0	[10000]	µg/L	11:12:46
1	K 766.490 Radial†	8097.1	7376.2	[10000]	µg/L	11:12:26
1	Mg 279.077 IEC†	1510.5	1499.7	[10000]	µg/L	11:12:46
1	Na 589.592 Radial†	10526.7	10515.3	[10000]	µg/L	11:12:26
1	Sr 421.552†	83131.1	82673.0	[1000]	µg/L	11:12:26
1	Sc 361.383	1227051.6	1227051.6	102.54	%	11:13:49
1	Y 371.029	708918.5	708918.5	100.33	%	11:13:49
1	Ag 328.068†	146446.3	142175.3	[1000]	µg/L	11:13:51
1	As 188.979†	468.3	459.4	[1000]	µg/L	11:14:11
1	B 249.677†	83521.4	81198.8	[1000]	µg/L	11:13:51
1	Ba 233.527†	70938.0	69272.6	[1000]	µg/L	11:13:51
1	Be 313.107†	2317804.5	2267223.8	[1000]	µg/L	11:13:49
1	Cd 226.502†	64110.3	62613.3	[1000]	µg/L	11:13:51
1	Co 228.616†	33810.2	33078.9	[1000]	µg/L	11:13:51
1	Cr 267.716†	54712.7	53237.3	[1000]	µg/L	11:13:51
1	Cu 324.752†	151568.8	143794.8	[1000]	µg/L	11:13:51
1	Mn 257.610†	340042.1	331427.3	[1000]	µg/L	11:13:51
1	Mo 202.031†	8699.8	8493.9	[1000]	µg/L	11:14:11
1	Ni 231.604†	33569.1	32775.9	[1000]	µg/L	11:13:51
1	P 214.914†	5036.7	4980.2	[5000]	µg/L	11:14:11
1	Pb 220.353†	4731.4	4505.9	[1000]	µg/L	11:14:11
1	S 181.975 Axial†	632.6	592.2	[2000]	µg/L	11:14:11
1	Sb 206.836†	1648.9	1601.5	[1000]	µg/L	11:14:11
1	Se 196.026†	769.9	733.9	[1000]	µg/L	11:14:11
1	SiO2†	60719.9	57324.5	[10695]	µg/L	11:13:51
1	Si 251.611†	172892.0	168258.0	[5000]	µg/L	11:13:51
1	Sn 189.927†	2599.2	2530.9	[1000]	µg/L	11:14:11
1	Ti 334.940†	532468.4	517768.1	[1000]	µg/L	11:13:49
1	Tl 190.801†	751.2	748.5	[1000]	µg/L	11:14:11
1	U 367.007†	3617.8	3208.1	[1000]	µg/L	11:13:51
1	V 292.402†	142759.4	138880.2	[1000]	µg/L	11:13:51
1	Zn 213.857†	78531.7	76063.2	[1000]	µg/L	11:13:51
2	Sc RADIAL	21007.3	21007.3	97.8	%	11:13:08
2	Al 396.153Radial†	5568.5	5792.0	[10000]	µg/L	11:13:08
2	Ca 317.933Radial†	14702.2	14971.3	[10000]	µg/L	11:13:08
2	Fe 238.204 Radial†	3011.1	3049.4	[10000]	µg/L	11:13:08
2	K 766.490 Radial†	8260.3	7769.1	[10000]	µg/L	11:12:48
2	Mg 279.077 IEC†	1466.3	1496.6	[10000]	µg/L	11:13:08
2	Na 589.592 Radial†	10610.3	10894.8	[10000]	µg/L	11:12:48
2	Sr 421.552†	83782.2	85659.7	[1000]	µg/L	11:12:48
2	Sc 361.383	1227177.5	1227177.5	102.55	%	11:14:13
2	Y 371.029	708231.6	708231.6	100.23	%	11:14:13
2	Ag 328.068†	142683.2	138491.1	[1000]	µg/L	11:14:16
2	As 188.979†	435.4	427.3	[1000]	µg/L	11:14:36
2	B 249.677†	81097.0	78826.3	[1000]	µg/L	11:14:16
2	Ba 233.527†	68809.8	67190.1	[1000]	µg/L	11:14:16
2	Be 313.107†	2319227.2	2268379.2	[1000]	µg/L	11:14:13
2	Cd 226.502†	61796.7	60350.8	[1000]	µg/L	11:14:16
2	Co 228.616†	32548.7	31845.4	[1000]	µg/L	11:14:16
2	Cr 267.716†	53163.1	51720.6	[1000]	µg/L	11:14:16
2	Cu 324.752†	147628.5	139937.2	[1000]	µg/L	11:14:16
2	Mn 257.610†	330046.9	321646.4	[1000]	µg/L	11:14:16
2	Mo 202.031†	8234.9	8039.7	[1000]	µg/L	11:14:36
2	Ni 231.604†	32415.8	31648.0	[1000]	µg/L	11:14:16
2	P 214.914†	4762.8	4712.6	[5000]	µg/L	11:14:36
2	Pb 220.353†	4483.7	4263.8	[1000]	µg/L	11:14:36

2	S 181.975 Axial†	598.0	558.4	[2000]	µg/L	11:14:36
2	Sb 206.836†	1563.8	1518.4	[1000]	µg/L	11:14:36
2	Se 196.026†	712.5	678.0	[1000]	µg/L	11:14:36
2	SiO2†	59130.1	55768.1	[10695]	µg/L	11:14:16
2	Si 251.611†	168156.6	163622.9	[5000]	µg/L	11:14:16
2	Sn 189.927†	2431.0	2366.7	[1000]	µg/L	11:14:36
2	Ti 334.940†	533019.4	518252.0	[1000]	µg/L	11:14:13
2	Tl 190.801†	705.9	704.2	[1000]	µg/L	11:14:36
2	U 367.007†	3597.1	3187.6	[1000]	µg/L	11:14:16
2	V 292.402†	138789.6	134994.8	[1000]	µg/L	11:14:16
2	Zn 213.857†	76252.8	73833.2	[1000]	µg/L	11:14:16
3	Sc RADIAL	21641.7	21641.7	101	%	11:13:30
3	Al 396.153Radial†	5725.6	5781.1	[10000]	µg/L	11:13:30
3	Ca 317.933Radial†	15157.5	14982.6	[10000]	µg/L	11:13:30
3	Fe 238.204 Radial†	3100.4	3047.8	[10000]	µg/L	11:13:30
3	K 766.490 Radial†	8464.2	7723.9	[10000]	µg/L	11:13:10
3	Mg 279.077 IEC†	1505.6	1491.7	[10000]	µg/L	11:13:30
3	Na 589.592 Radial†	10893.2	10857.5	[10000]	µg/L	11:13:10
3	Sr 421.552†	86507.5	85853.5	[1000]	µg/L	11:13:10
3	Sc 361.383	1245736.4	1245736.4	104.10	%	11:14:38
3	Y 371.029	719202.9	719202.9	101.79	%	11:14:38
3	Ag 328.068†	147678.3	141216.6	[1000]	µg/L	11:14:40
3	As 188.979†	457.1	441.8	[1000]	µg/L	11:15:00
3	B 249.677†	84222.5	80650.6	[1000]	µg/L	11:14:40
3	Ba 233.527†	71789.3	69052.7	[1000]	µg/L	11:14:40
3	Be 313.107†	2342305.4	2256855.7	[1000]	µg/L	11:14:38
3	Cd 226.502†	64759.5	62299.1	[1000]	µg/L	11:14:40
3	Co 228.616†	34250.1	33006.9	[1000]	µg/L	11:14:40
3	Cr 267.716†	55255.1	52957.9	[1000]	µg/L	11:14:40
3	Cu 324.752†	152886.5	142843.5	[1000]	µg/L	11:14:40
3	Mn 257.610†	343378.0	329657.8	[1000]	µg/L	11:14:40
3	Mo 202.031†	8619.2	8289.2	[1000]	µg/L	11:15:00
3	Ni 231.604†	33921.4	32623.3	[1000]	µg/L	11:14:40
3	P 214.914†	4995.4	4866.9	[5000]	µg/L	11:15:00
3	Pb 220.353†	4695.4	4402.1	[1000]	µg/L	11:15:00
3	S 181.975 Axial†	635.9	586.1	[2000]	µg/L	11:15:00
3	Sb 206.836†	1636.6	1565.6	[1000]	µg/L	11:15:00
3	Se 196.026†	748.1	701.8	[1000]	µg/L	11:15:00
3	SiO2†	61446.4	57134.2	[10695]	µg/L	11:14:40
3	Si 251.611†	174677.7	167444.3	[5000]	µg/L	11:14:40
3	Sn 189.927†	2572.7	2467.4	[1000]	µg/L	11:15:00
3	Ti 334.940†	538578.1	515848.4	[1000]	µg/L	11:14:38
3	Tl 190.801†	729.1	716.2	[1000]	µg/L	11:15:00
3	U 367.007†	3724.2	3257.3	[1000]	µg/L	11:14:40
3	V 292.402†	144173.2	138150.0	[1000]	µg/L	11:14:40
3	Zn 213.857†	79440.7	75787.7	[1000]	µg/L	11:14:40

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1233321.8	10751.50	0.87%	103.06	%
Sc RADIAL	21415.2	353.99	1.65%	99.7	%
Y 371.029	712117.7	6145.58	0.86%	100.78	%
Ag 328.068†	140627.6	1911.41	1.36%	[1000]	µg/L
Al 396.153Radial†	5798.8	21.92	0.38%	[10000]	µg/L
As 188.979†	442.8	16.06	3.63%	[1000]	µg/L
B 249.677†	80225.2	1242.14	1.55%	[1000]	µg/L
Ba 233.527†	68505.1	1144.14	1.67%	[1000]	µg/L
Be 313.107†	2264152.9	6345.93	0.28%	[1000]	µg/L
Ca 317.933Radial†	15007.6	53.36	0.36%	[10000]	µg/L
Cd 226.502†	61754.4	1225.69	1.98%	[1000]	µg/L
Co 228.616†	32643.8	692.32	2.12%	[1000]	µg/L
Cr 267.716†	52638.6	807.16	1.53%	[1000]	µg/L
Cu 324.752†	142191.8	2009.65	1.41%	[1000]	µg/L
Fe 238.204 Radial†	3052.4	6.62	0.22%	[10000]	µg/L
K 766.490 Radial†	7623.1	214.97	2.82%	[10000]	µg/L
Mg 279.077 IEC†	1496.0	4.03	0.27%	[10000]	µg/L
Mn 257.610†	327577.2	5211.83	1.59%	[1000]	µg/L
Mo 202.031†	8274.3	227.46	2.75%	[1000]	µg/L
Na 589.592 Radial†	10755.9	209.15	1.94%	[10000]	µg/L

Ni 231.604†	32349.1	611.95	1.89%	[1000]	µg/L
P 214.914†	4853.2	134.34	2.77%	[5000]	µg/L
Pb 220.353†	4390.6	121.43	2.77%	[1000]	µg/L
S 181.975 Axial†	578.9	18.01	3.11%	[2000]	µg/L
Sb 206.836†	1561.9	41.69	2.67%	[1000]	µg/L
Se 196.026†	704.6	28.09	3.99%	[1000]	µg/L
SiO2†	56742.3	848.99	1.50%	[10695]	µg/L
Si 251.611†	166441.7	2474.80	1.49%	[5000]	µg/L
Sn 189.927†	2455.0	82.84	3.37%	[1000]	µg/L
Sr 421.552†	84728.7	1782.94	2.10%	[1000]	µg/L
Ti 334.940†	517289.5	1271.30	0.25%	[1000]	µg/L
Tl 190.801†	722.9	22.91	3.17%	[1000]	µg/L
U 367.007†	3217.7	35.85	1.11%	[1000]	µg/L
V 292.402†	137341.7	2065.00	1.50%	[1000]	µg/L
Zn 213.857†	75228.0	1215.82	1.62%	[1000]	µg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S10 **Date Collected: 11/7/2013 11:15:09**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	21893.6	21893.6	102	%	11:15:40
1	Al 396.153Radial†	27327.7	26917.1	[50000]	µg/L	11:15:38
1	Ca 317.933Radial†	73039.7	71618.0	[50000]	µg/L	11:15:40
1	Fe 238.204 Radial†	5837.1	5698.3	[20000]	µg/L	11:15:40
1	Mg 279.077 IEC†	7060.9	6926.7	[50000]	µg/L	11:15:40
1	Na 589.592 Radial†	20253.0	19919.2	[20000]	µg/L	11:15:38
1	Sc 361.383	1235700.0	1235700.0	103.26	%	11:16:06
1	Y 371.029	709695.8	709695.8	100.44	%	11:16:06
2	Sc RADIAL	21752.3	21752.3	101	%	11:15:44
2	Al 396.153Radial†	28472.0	28221.6	[50000]	µg/L	11:15:42
2	Ca 317.933Radial†	76488.8	75490.6	[50000]	µg/L	11:15:44
2	Fe 238.204 Radial†	6060.0	5955.7	[20000]	µg/L	11:15:44
2	Mg 279.077 IEC†	7344.7	7252.0	[50000]	µg/L	11:15:44
2	Na 589.592 Radial†	21024.1	20810.0	[20000]	µg/L	11:15:42
2	Sc 361.383	1234038.2	1234038.2	103.12	%	11:16:09
2	Y 371.029	708281.5	708281.5	100.24	%	11:16:09
3	Sc RADIAL	21918.2	21918.2	102	%	11:15:48
3	Al 396.153Radial†	29054.5	28579.9	[50000]	µg/L	11:15:46
3	Ca 317.933Radial†	75662.7	74109.0	[50000]	µg/L	11:15:48
3	Fe 238.204 Radial†	6025.3	5876.4	[20000]	µg/L	11:15:48
3	Mg 279.077 IEC†	7273.5	7127.3	[50000]	µg/L	11:15:48
3	Na 589.592 Radial†	21413.9	21035.0	[20000]	µg/L	11:15:46
3	Sc 361.383	1216353.0	1216353.0	101.64	%	11:16:11
3	Y 371.029	699443.1	699443.1	98.991	%	11:16:11

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1228697.1	10722.50	0.87%	102.68	%
Sc RADIAL	21854.7	89.51	0.41%	102	%
Y 371.029	705806.8	5556.31	0.79%	99.892	%
Al 396.153Radial†	27906.2	875.11	3.14%	[50000]	µg/L
Ca 317.933Radial†	73739.2	1962.65	2.66%	[50000]	µg/L
Fe 238.204 Radial†	5843.4	131.78	2.26%	[20000]	µg/L
Mg 279.077 IEC†	7102.0	164.12	2.31%	[50000]	µg/L
Na 589.592 Radial†	20588.1	590.09	2.87%	[20000]	µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	141.4	0.00000	0.999943	
Al 396.153Radial	3	Lin Thru 0	0.0	0.5593	0.00000	0.999950	
As 188.979	3	Lin Thru 0	0.0	0.4395	0.00000	0.999880	
B 249.677	3	Lin Thru 0	0.0	80.06	0.00000	0.999989	
Ba 233.527	3	Lin Thru 0	0.0	68.54	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	2262	0.00000	0.999997	
Ca 317.933Radial	3	Lin Thru 0	0.0	1.476	0.00000	0.999984	
Cd 226.502	3	Lin Thru 0	0.0	61.89	0.00000	0.999989	
Co 228.616	3	Lin Thru 0	0.0	32.73	0.00000	0.999986	
Cr 267.716	3	Lin Thru 0	0.0	52.70	0.00000	0.999997	
Cu 324.752	3	Lin Thru 0	0.0	142.1	0.00000	0.999998	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.2948	0.00000	0.999843	
K 766.490 Radial	3	Lin Thru 0	0.0	0.7656	0.00000	0.999922	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.1425	0.00000	0.999912	
Mn 257.610	3	Lin Thru 0	0.0	328.4	0.00000	0.999987	
Mo 202.031	3	Lin Thru 0	0.0	8.309	0.00000	0.999967	
Na 589.592 Radia	2	Lin Thru 0	0.0	1.039	0.00000	0.999842	

Ni 231.604	3	Lin Thru 0	0.0	32.48	0.00000	0.999970
P 214.914	3	Lin Thru 0	0.0	0.9773	0.00000	0.999911
Pb 220.353	3	Lin Thru 0	0.0	4.405	0.00000	0.999979
S 181.975 Axial	3	Lin Thru 0	0.0	0.2906	0.00000	0.999969
Sb 206.836	3	Lin Thru 0	0.0	1.571	0.00000	0.999938
Se 196.026	3	Lin Thru 0	0.0	0.7062	0.00000	0.999980
SiO2	3	Lin Thru 0	0.0	5.298	0.00000	0.999996
Si 251.611	3	Lin Thru 0	0.0	33.26	0.00000	0.999998
Sn 189.927	3	Lin Thru 0	0.0	2.473	0.00000	0.999902
Sr 421.552	3	Lin Thru 0	0.0	84.87	0.00000	0.999995
Ti 334.940	3	Lin Thru 0	0.0	517.4	0.00000	0.999998
Tl 190.801	3	Lin Thru 0	0.0	0.7217	0.00000	0.999995
U 367.007	3	Lin Thru 0	0.0	3.198	0.00000	0.999926
V 292.402	3	Lin Thru 0	0.0	137.3	0.00000	1.000000
Zn 213.857	3	Lin Thru 0	0.0	75.36	0.00000	0.999993

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Sequence No.: 6 **Autosampler Location: 9**
Sample ID: ICV **Date Collected: 11/7/2013 11:16:19**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22117.7	22117.7	103	%			11:16:49
1	Al 396.153Radial†	2831.2	2846.8	5087.3	µg/L	5087.3	ppb	11:17:09
1	Ca 317.933Radial†	7680.1	7394.3	5006.9	µg/L	5006.9	ppb	11:17:09
1	Fe 238.204 Radial†	1552.0	1477.2	4995.9	µg/L	4995.9	ppb	11:17:09
1	K 766.490 Radial†	2529.5	1777.5	2331.7	µg/L	2331.7	ppb	11:16:49
1	Mg 279.077 IEC†	760.7	735.8	5166.3	µg/L	5166.3	ppb	11:17:09
1	Na 589.592 Radial†	2733.8	2697.7	2597.3	µg/L	2597.3	ppb	11:16:49
1	Sr 421.552†	42482.2	41233.8	485.82	µg/L	485.82	ppb	11:16:49
1	Sc 361.383	1233434.5	1233434.5	103.07	%			11:18:11
1	Y 371.029	718657.3	718657.3	101.71	%			11:18:11
1	Ag 328.068†	37566.3	35800.7	254.40	µg/L	254.40	ppb	11:18:11
1	As 188.979†	220.9	217.0	501.23	µg/L	501.23	ppb	11:18:31
1	B 249.677†	40848.9	39376.5	473.88	µg/L	473.88	ppb	11:18:11
1	Ba 233.527†	34724.4	33780.1	494.16	µg/L	494.16	ppb	11:18:11
1	Be 313.107†	582345.1	571781.5	252.83	µg/L	252.83	ppb	11:18:11
1	Cd 226.502†	31706.5	30851.5	498.13	µg/L	498.13	ppb	11:18:11
1	Co 228.616†	16606.1	16216.9	495.11	µg/L	495.11	ppb	11:18:11
1	Cr 267.716†	27398.9	26461.2	501.70	µg/L	501.70	ppb	11:18:11
1	Cu 324.752†	77835.4	71493.6	504.20	µg/L	504.20	ppb	11:18:11
1	Mn 257.610†	170787.1	165499.8	503.85	µg/L	503.85	ppb	11:18:11
1	Mo 202.031†	4181.6	4066.4	489.69	µg/L	489.69	ppb	11:18:31
1	Ni 231.604†	16821.5	16358.0	503.65	µg/L	503.65	ppb	11:18:11
1	P 214.914†	2378.7	2376.0	2416.5	µg/L	2416.5	ppb	11:18:31
1	Pb 220.353†	2409.5	2229.2	507.38	µg/L	507.38	ppb	11:18:31
1	S 181.975 Axial†	764.0	716.5	2461.6	µg/L	2461.6	ppb	11:18:31
1	Sb 206.836†	800.4	770.0	490.34	µg/L	490.34	ppb	11:18:31
1	Se 196.026†	1827.2	1755.9	2490	µg/L	2490	ppb	11:18:31
1	SiO2†	58137.0	54512.1	10299	µg/L	10299	ppb	11:18:11
1	Si 251.611†	164782.8	159517.8	4790.0	µg/L	4790.0	ppb	11:18:11
1	Sn 189.927†	1286.2	1244.0	503.58	µg/L	503.58	ppb	11:18:31
1	Ti 334.940†	267116.7	257636.3	497.69	µg/L	497.69	ppb	11:18:11
1	Tl 190.801†	346.6	352.1	482.66	µg/L	482.66	ppb	11:18:31
1	U 367.007†	2054.0	1672.6	494.23	µg/L	494.23	ppb	11:18:11
1	V 292.402†	70975.0	68514.4	506.57	µg/L	506.57	ppb	11:18:11
1	Zn 213.857†	40445.3	38715.4	510.01	µg/L	510.01	ppb	11:18:11
2	Sc RADIAL	22021.8	22021.8	102	%			11:17:11
2	Al 396.153Radial†	2870.6	2897.2	5177.0	µg/L	5177.0	ppb	11:17:31
2	Ca 317.933Radial†	7799.2	7542.9	5107.6	µg/L	5107.6	ppb	11:17:31
2	Fe 238.204 Radial†	1579.0	1510.1	5107.4	µg/L	5107.4	ppb	11:17:31
2	K 766.490 Radial†	2603.3	1860.2	2440.1	µg/L	2440.1	ppb	11:17:11
2	Mg 279.077 IEC†	768.7	746.9	5243.7	µg/L	5243.7	ppb	11:17:31
2	Na 589.592 Radial†	2742.5	2717.8	2616.7	µg/L	2616.7	ppb	11:17:11
2	Sr 421.552†	43326.7	42237.5	497.65	µg/L	497.65	ppb	11:17:11
2	Sc 361.383	1145625.1	1145625.1	95.734	%			11:18:34
2	Y 371.029	667284.6	667284.6	94.440	%			11:18:34
2	Ag 328.068†	35333.5	36262.0	257.67	µg/L	257.67	ppb	11:18:34
2	As 188.979†	224.3	237.0	546.95	µg/L	546.95	ppb	11:18:54
2	B 249.677†	38188.6	39635.2	476.65	µg/L	476.65	ppb	11:18:34
2	Ba 233.527†	32326.8	33857.8	495.30	µg/L	495.30	ppb	11:18:34
2	Be 313.107†	540856.2	571749.0	252.81	µg/L	252.81	ppb	11:18:34
2	Cd 226.502†	29263.0	30656.9	494.97	µg/L	494.97	ppb	11:18:34
2	Co 228.616†	15467.8	16262.8	496.56	µg/L	496.56	ppb	11:18:34
2	Cr 267.716†	25543.9	26561.0	503.58	µg/L	503.58	ppb	11:18:34
2	Cu 324.752†	73190.2	72429.5	510.80	µg/L	510.80	ppb	11:18:34
2	Mn 257.610†	158932.6	165817.3	504.82	µg/L	504.82	ppb	11:18:34
2	Mo 202.031†	4228.8	4426.7	533.05	µg/L	533.05	ppb	11:18:54
2	Ni 231.604†	15516.8	16246.1	500.20	µg/L	500.20	ppb	11:18:34
2	P 214.914†	2411.9	2587.6	2632.5	µg/L	2632.5	ppb	11:18:54
2	Pb 220.353†	2427.6	2427.3	552.46	µg/L	552.46	ppb	11:18:54

2	S 181.975 Axial†	774.1	783.9	2693.1 µg/L	2693.1 ppb	11:18:54
2	Sb 206.836†	804.8	834.2	531.53 µg/L	531.53 ppb	11:18:54
2	Se 196.026†	1840.5	1905.7	2700 µg/L	2700 ppb	11:18:54
2	SiO2†	54275.9	54802.2	10353 µg/L	10353 ppb	11:18:34
2	Si 251.611†	153969.4	160476.3	4818.2 µg/L	4818.2 ppb	11:18:34
2	Sn 189.927†	1307.5	1361.9	551.26 µg/L	551.26 ppb	11:18:54
2	Ti 334.940†	249772.8	259383.1	501.06 µg/L	501.06 ppb	11:18:34
2	Tl 190.801†	362.3	394.3	541.08 µg/L	541.08 ppb	11:18:54
2	U 367.007†	1984.3	1752.5	518.66 µg/L	518.66 ppb	11:18:34
2	V 292.402†	66194.8	68799.2	509.20 µg/L	509.20 ppb	11:18:34
2	Zn 213.857†	37756.1	38914.1	512.65 µg/L	512.65 ppb	11:18:34
3	Sc RADIAL	21765.7	21765.7	101 %		11:17:33
3	Al 396.153Radial†	2840.5	2900.4	5183.2 µg/L	5183.2 ppb	11:17:53
3	Ca 317.933Radial†	7706.7	7541.2	5106.4 µg/L	5106.4 ppb	11:17:53
3	Fe 238.204 Radial†	1554.7	1504.3	5087.6 µg/L	5087.6 ppb	11:17:53
3	K 766.490 Radial†	2687.1	1972.7	2586.8 µg/L	2586.8 ppb	11:17:33
3	Mg 279.077 IEC†	762.5	749.6	5262.7 µg/L	5262.7 ppb	11:17:53
3	Na 589.592 Radial†	2765.2	2771.7	2668.6 µg/L	2668.6 ppb	11:17:33
3	Sr 421.552†	43054.1	42465.9	500.34 µg/L	500.34 ppb	11:17:33
3	Sc 361.383	1242246.6	1242246.6	103.81 %		11:18:56
3	Y 371.029	724033.8	724033.8	102.47 %		11:18:56
3	Ag 328.068†	37799.7	35767.0	254.15 µg/L	254.15 ppb	11:18:56
3	As 188.979†	213.0	207.9	480.58 µg/L	480.58 ppb	11:19:16
3	B 249.677†	41464.6	39688.4	477.34 µg/L	477.34 ppb	11:18:56
3	Ba 233.527†	35152.2	33953.2	496.69 µg/L	496.69 ppb	11:18:56
3	Be 313.107†	589701.6	574860.4	254.19 µg/L	254.19 ppb	11:18:56
3	Cd 226.502†	32339.0	31242.6	504.44 µg/L	504.44 ppb	11:18:56
3	Co 228.616†	16881.6	16368.0	499.73 µg/L	499.73 ppb	11:18:56
3	Cr 267.716†	27710.5	26572.8	503.80 µg/L	503.80 ppb	11:18:56
3	Cu 324.752†	78720.7	71810.8	506.45 µg/L	506.45 ppb	11:18:56
3	Mn 257.610†	173064.7	166518.4	506.95 µg/L	506.95 ppb	11:18:56
3	Mo 202.031†	4221.1	4075.7	490.82 µg/L	490.82 ppb	11:19:16
3	Ni 231.604†	16956.1	16371.9	504.08 µg/L	504.08 ppb	11:18:56
3	P 214.914†	2424.7	2403.9	2445.0 µg/L	2445.0 ppb	11:19:16
3	Pb 220.353†	2422.5	2225.2	506.46 µg/L	506.46 ppb	11:19:16
3	S 181.975 Axial†	769.9	716.9	2462.9 µg/L	2462.9 ppb	11:19:16
3	Sb 206.836†	808.5	772.3	491.80 µg/L	491.80 ppb	11:19:16
3	Se 196.026†	1852.4	1767.6	2500 µg/L	2500 ppb	11:19:16
3	SiO2†	58833.4	54782.9	10350 µg/L	10350 ppb	11:18:56
3	Si 251.611†	166821.0	160347.1	4814.9 µg/L	4814.9 ppb	11:18:56
3	Sn 189.927†	1298.7	1247.1	504.84 µg/L	504.84 ppb	11:19:16
3	Ti 334.940†	270073.3	258646.0	499.64 µg/L	499.64 ppb	11:18:56
3	Tl 190.801†	365.6	368.0	504.69 µg/L	504.69 ppb	11:19:16
3	U 367.007†	2128.1	1729.9	511.65 µg/L	511.65 ppb	11:18:56
3	V 292.402†	71891.6	68908.9	509.48 µg/L	509.48 ppb	11:18:56
3	Zn 213.857†	40957.2	38930.2	512.84 µg/L	512.84 ppb	11:18:56

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1207102.1	100.87	%	4.464				4.43%
Sc RADIAL	21968.4	102	%	0.8				0.83%
Y 371.029	703325.2	99.540	%	4.4338				4.45%
Ag 328.068†	35943.2	255.41	µg/L	1.965	255.41	ppb	1.965	0.77%
QC value within limits for Ag 328.068 Recovery = 102.16%								
Al 396.153Radial†	2881.4	5149.2	µg/L	53.69	5149.2	ppb	53.69	1.04%
QC value within limits for Al 396.153Radial Recovery = 102.98%								
As 188.979†	220.6	509.59	µg/L	33.964	509.59	ppb	33.964	6.66%
QC value within limits for As 188.979 Recovery = 101.92%								
B 249.677†	39566.7	475.96	µg/L	1.833	475.96	ppb	1.833	0.39%
QC value within limits for B 249.677 Recovery = 95.19%								
Ba 233.527†	33863.7	495.38	µg/L	1.269	495.38	ppb	1.269	0.26%
QC value within limits for Ba 233.527 Recovery = 99.08%								
Be 313.107†	572797.0	253.28	µg/L	0.790	253.28	ppb	0.790	0.31%
QC value within limits for Be 313.107 Recovery = 101.31%								
Ca 317.933Radial†	7492.8	5073.6	µg/L	57.78	5073.6	ppb	57.78	1.14%
QC value within limits for Ca 317.933Radial Recovery = 101.47%								
Cd 226.502†	30917.0	499.18	µg/L	4.820	499.18	ppb	4.820	0.97%
QC value within limits for Cd 226.502 Recovery = 99.84%								
Co 228.616†	16282.5	497.13	µg/L	2.361	497.13	ppb	2.361	0.47%

```
   QC value within limits for Co 228.616  Recovery = 99.43%
Cr 267.716†            26531.7      503.03 µg/L         1.157      503.03 ppb          1.157   0.23%
   QC value within limits for Cr 267.716  Recovery = 100.61%
Cu 324.752†            71911.3      507.15 µg/L         3.353      507.15 ppb          3.353   0.66%
   QC value within limits for Cu 324.752  Recovery = 101.43%
Fe 238.204 Radial†      1497.2      5063.6 µg/L         59.47      5063.6 ppb          59.47   1.17%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.27%
K 766.490 Radial†       1870.1      2452.9 µg/L        128.02      2452.9 ppb         128.02   5.22%
   QC value within limits for K 766.490 Radial  Recovery = 98.11%
Mg 279.077 IEC†          744.1      5224.2 µg/L         51.06      5224.2 ppb          51.06   0.98%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.48%
Mn 257.610†           165945.1      505.21 µg/L         1.586      505.21 ppb          1.586   0.31%
   QC value within limits for Mn 257.610  Recovery = 101.04%
Mo 202.031†             4189.6      504.52 µg/L        24.716      504.52 ppb         24.716   4.90%
   QC value within limits for Mo 202.031  Recovery = 100.90%
Na 589.592 Radial†      2729.1      2627.5 µg/L         36.84      2627.5 ppb          36.84   1.40%
   QC value within limits for Na 589.592 Radial  Recovery = 105.10%
Ni 231.604†            16325.3      502.65 µg/L         2.124      502.65 ppb          2.124   0.42%
   QC value within limits for Ni 231.604  Recovery = 100.53%
P 214.914†              2455.8      2498.0 µg/L        117.33      2498.0 ppb         117.33   4.70%
   QC value within limits for P 214.914  Recovery = 99.92%
Pb 220.353†             2293.9      522.10 µg/L        26.297      522.10 ppb         26.297   5.04%
   QC value within limits for Pb 220.353  Recovery = 104.42%
S 181.975 Axial†         739.1      2539.2 µg/L        133.27      2539.2 ppb         133.27   5.25%
   QC value within limits for S 181.975 Axial  Recovery = 101.57%
Sb 206.836†              792.2      504.56 µg/L        23.366      504.56 ppb         23.366   4.63%
   QC value within limits for Sb 206.836  Recovery = 100.91%
Se 196.026†             1809.7        2560 µg/L         118.0        2560 ppb          118.0   4.60%
   QC value within limits for Se 196.026  Recovery = 102.55%
SiO2†                  54699.1       10334 µg/L          30.6       10334 ppb           30.6   0.30%
   QC value within limits for SiO2  Recovery = 96.62%
Si 251.611†           160113.8      4807.7 µg/L         15.44      4807.7 ppb          15.44   0.32%
   QC value within limits for Si 251.611  Recovery = 96.15%
Sn 189.927†             1284.3      519.89 µg/L        27.171      519.89 ppb         27.171   5.23%
   QC value within limits for Sn 189.927  Recovery = 103.98%
Sr 421.552†            41979.1      494.61 µg/L         7.722      494.61 ppb          7.722   1.56%
   QC value within limits for Sr 421.552  Recovery = 98.92%
Ti 334.940†           258555.1      499.46 µg/L         1.691      499.46 ppb          1.691   0.34%
   QC value within limits for Ti 334.940  Recovery = 99.89%
Tl 190.801†              371.5      509.48 µg/L        29.506      509.48 ppb         29.506   5.79%
   QC value within limits for Tl 190.801  Recovery = 101.90%
U 367.007†              1718.3      508.18 µg/L        12.576      508.18 ppb         12.576   2.47%
   QC value within limits for U 367.007  Recovery = 101.64%
V 292.402†             68740.8      508.42 µg/L         1.608      508.42 ppb          1.608   0.32%
   QC value within limits for V 292.402  Recovery = 101.68%
Zn 213.857†            38853.2      511.83 µg/L         1.585      511.83 ppb          1.585   0.31%
   QC value within limits for Zn 213.857  Recovery = 102.37%
All analyte(s) passed QC.
```

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

Autosampler Location: 10
Date Collected: 11/7/2013 11:19:26
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21483.6	21483.6	100.0	%			11:20:13
1	Al 396.153Radial†	-93.3	2.9	5.1791	µg/L	5.1791	ppb	11:20:13
1	Ca 317.933Radial†	74.6	7.6	5.1634	µg/L	5.1634	ppb	11:20:33
1	Fe 238.204 Radial†	29.6	-0.9	-3.2040	µg/L	-3.2040	ppb	11:20:33
1	K 766.490 Radial†	650.1	-29.8	-38.858	µg/L	-38.858	ppb	11:20:13
1	Mg 279.077 IEC†	6.9	3.7	25.998	µg/L	25.998	ppb	11:20:33
1	Na 589.592 Radial†	-69.5	-27.7	-26.637	µg/L	-26.637	ppb	11:20:13
1	Sr 421.552†	51.9	13.9	0.1640	µg/L	0.1640	ppb	11:20:13
1	Sc 361.383	1216352.8	1216352.8	101.64	%			11:22:11
1	Y 371.029	718984.0	718984.0	101.76	%			11:22:11
1	Ag 328.068†	587.5	-68.2	-0.4822	µg/L	-0.4822	ppb	11:22:13
1	As 188.979†	-3.4	-0.7	-1.4871	µg/L	-1.4871	ppb	11:22:33
1	B 249.677†	377.0	115.7	1.4737	µg/L	1.4737	ppb	11:22:33
1	Ba 233.527†	-83.8	7.9	0.1161	µg/L	0.1161	ppb	11:22:33
1	Be 313.107†	-6849.0	51.5	0.0228	µg/L	0.0228	ppb	11:22:13
1	Cd 226.502†	-75.1	16.0	0.2590	µg/L	0.2590	ppb	11:22:33
1	Co 228.616†	-96.3	10.8	0.3314	µg/L	0.3314	ppb	11:22:33
1	Cr 267.716†	108.5	-14.5	-0.2762	µg/L	-0.2762	ppb	11:22:33
1	Cu 324.752†	3888.8	-196.4	-1.3821	µg/L	-1.3821	ppb	11:22:13
1	Mn 257.610†	206.3	4.9	0.0139	µg/L	0.0139	ppb	11:22:33
1	Mo 202.031†	-11.9	-2.3	-0.2776	µg/L	-0.2776	ppb	11:22:33
1	Ni 231.604†	-39.0	-0.6	-0.0189	µg/L	-0.0189	ppb	11:22:33
1	P 214.914†	-57.9	11.2	11.476	µg/L	11.476	ppb	11:22:33
1	Pb 220.353†	99.8	-10.3	-2.3394	µg/L	-2.3394	ppb	11:22:33
1	S 181.975 Axial†	22.0	-3.1	-10.683	µg/L	-10.683	ppb	11:22:33
1	Sb 206.836†	-0.4	-6.9	-4.4087	µg/L	-4.4087	ppb	11:22:33
1	Se 196.026†	11.1	-5.9	-8.40	µg/L	-8.40	ppb	11:22:33
1	SiO2†	1842.4	-79.8	-15.073	µg/L	-15.073	ppb	11:22:33
1	Si 251.611†	383.4	22.5	0.6810	µg/L	0.6810	ppb	11:22:33
1	Sn 189.927†	1.3	-2.6	-1.0475	µg/L	-1.0475	ppb	11:22:33
1	Ti 334.940†	1251.6	-289.4	-0.5592	µg/L	-0.5592	ppb	11:22:13
1	Tl 190.801†	-16.8	-0.7	-1.0425	µg/L	-1.0425	ppb	11:22:33
1	U 367.007†	326.8	1.3	0.4260	µg/L	0.4260	ppb	11:22:13
1	V 292.402†	375.6	23.9	0.1702	µg/L	0.1702	ppb	11:22:13
1	Zn 213.857†	551.3	17.8	0.2364	µg/L	0.2364	ppb	11:22:33
2	Sc RADIAL	21308.1	21308.1	99.2	%			11:20:53
2	Al 396.153Radial†	-86.6	8.9	15.858	µg/L	15.858	ppb	11:20:53
2	Ca 317.933Radial†	76.0	9.6	6.5212	µg/L	6.5212	ppb	11:21:13
2	Fe 238.204 Radial†	26.1	-4.2	-14.390	µg/L	-14.390	ppb	11:21:13
2	K 766.490 Radial†	642.3	-32.3	-42.129	µg/L	-42.129	ppb	11:20:53
2	Mg 279.077 IEC†	8.4	5.3	36.994	µg/L	36.994	ppb	11:21:13
2	Na 589.592 Radial†	-41.0	0.5	0.5232	µg/L	0.5232	ppb	11:20:53
2	Sr 421.552†	41.0	3.3	0.0394	µg/L	0.0394	ppb	11:20:53
2	Sc 361.383	1203327.1	1203327.1	100.56	%			11:22:35
2	Y 371.029	710735.9	710735.9	100.59	%			11:22:35
2	Ag 328.068†	530.2	-118.8	-0.8482	µg/L	-0.8482	ppb	11:22:37
2	As 188.979†	-3.2	-0.4	-1.0138	µg/L	-1.0138	ppb	11:22:57
2	B 249.677†	383.1	125.8	1.6422	µg/L	1.6422	ppb	11:22:57
2	Ba 233.527†	-97.0	-6.0	-0.0893	µg/L	-0.0893	ppb	11:22:57
2	Be 313.107†	-6785.5	41.7	0.0184	µg/L	0.0184	ppb	11:22:37
2	Cd 226.502†	-77.5	12.7	0.2081	µg/L	0.2081	ppb	11:22:57
2	Co 228.616†	-109.5	-3.3	-0.0981	µg/L	-0.0981	ppb	11:22:57
2	Cr 267.716†	140.4	18.4	0.3435	µg/L	0.3435	ppb	11:22:57
2	Cu 324.752†	4041.6	-3.1	-0.0202	µg/L	-0.0202	ppb	11:22:37
2	Mn 257.610†	198.9	-0.3	-0.0025	µg/L	-0.0025	ppb	11:22:57
2	Mo 202.031†	-7.3	2.2	0.2652	µg/L	0.2652	ppb	11:22:57
2	Ni 231.604†	-10.0	27.8	0.8552	µg/L	0.8552	ppb	11:22:57
2	P 214.914†	-62.9	5.6	5.7520	µg/L	5.7520	ppb	11:22:57
2	Pb 220.353†	116.4	7.3	1.6635	µg/L	1.6635	ppb	11:22:57

2	S 181.975 Axial†	17.3	-7.5	-25.974 µg/L	-25.974 ppb	11:22:57
2	Sb 206.836†	5.4	-1.1	-0.7263 µg/L	-0.7263 ppb	11:22:57
2	Se 196.026†	14.3	-2.6	-3.71 µg/L	-3.71 ppb	11:22:57
2	SiO2†	1857.0	-45.7	-8.6154 µg/L	-8.6154 ppb	11:22:57
2	Si 251.611†	369.2	12.5	0.3696 µg/L	0.3696 ppb	11:22:57
2	Sn 189.927†	5.1	1.1	0.4529 µg/L	0.4529 ppb	11:22:57
2	Ti 334.940†	1335.5	-192.6	-0.3759 µg/L	-0.3759 ppb	11:22:37
2	Tl 190.801†	-10.5	5.4	7.4421 µg/L	7.4421 ppb	11:22:57
2	U 367.007†	344.8	22.7	7.1648 µg/L	7.1648 ppb	11:22:37
2	V 292.402†	277.4	-69.8	-0.5021 µg/L	-0.5021 ppb	11:22:37
2	Zn 213.857†	536.3	8.7	0.1105 µg/L	0.1105 ppb	11:22:57
3	Sc RADIAL	21314.6	21314.6	99.2 %		11:21:33
3	Al 396.153Radial†	-86.3	9.3	16.565 µg/L	16.565 ppb	11:21:33
3	Ca 317.933Radial†	82.3	16.0	10.802 µg/L	10.802 ppb	11:21:53
3	Fe 238.204 Radial†	30.5	0.2	0.5702 µg/L	0.5702 ppb	11:21:53
3	K 766.490 Radial†	655.3	-19.4	-25.280 µg/L	-25.280 ppb	11:21:33
3	Mg 279.077 IEC†	4.5	1.3	9.3203 µg/L	9.3203 ppb	11:21:53
3	Na 589.592 Radial†	-63.4	-22.0	-21.205 µg/L	-21.205 ppb	11:21:33
3	Sr 421.552†	33.6	-4.1	-0.0483 µg/L	-0.0483 ppb	11:21:33
3	Sc 361.383	1193514.2	1193514.2	99.735 %		11:22:59
3	Y 371.029	704944.1	704944.1	99.770 %		11:22:59
3	Ag 328.068†	620.0	-24.5	-0.1680 µg/L	-0.1680 ppb	11:23:01
3	As 188.979†	-9.2	-6.5	-14.806 µg/L	-14.806 ppb	11:23:21
3	B 249.677†	315.1	60.8	0.7673 µg/L	0.7673 ppb	11:23:21
3	Ba 233.527†	-86.5	3.7	0.0532 µg/L	0.0532 ppb	11:23:21
3	Be 313.107†	-6677.2	94.8	0.0419 µg/L	0.0419 ppb	11:23:01
3	Cd 226.502†	-86.5	3.1	0.0499 µg/L	0.0499 ppb	11:23:21
3	Co 228.616†	-103.3	2.1	0.0625 µg/L	0.0625 ppb	11:23:21
3	Cr 267.716†	144.1	23.3	0.4455 µg/L	0.4455 ppb	11:23:21
3	Cu 324.752†	4036.9	25.2	0.1745 µg/L	0.1745 ppb	11:23:01
3	Mn 257.610†	182.3	-15.3	-0.0468 µg/L	-0.0468 ppb	11:23:21
3	Mo 202.031†	-12.4	-3.0	-0.3555 µg/L	-0.3555 ppb	11:23:21
3	Ni 231.604†	-41.4	-3.7	-0.1153 µg/L	-0.1153 ppb	11:23:21
3	P 214.914†	-61.9	6.1	6.2306 µg/L	6.2306 ppb	11:23:21
3	Pb 220.353†	113.8	5.7	1.2988 µg/L	1.2988 ppb	11:23:21
3	S 181.975 Axial†	27.6	2.9	9.9841 µg/L	9.9841 ppb	11:23:21
3	Sb 206.836†	9.6	3.1	1.9470 µg/L	1.9470 ppb	11:23:21
3	Se 196.026†	17.7	0.9	1.27 µg/L	1.27 ppb	11:23:21
3	SiO2†	1839.3	-48.2	-9.0928 µg/L	-9.0928 ppb	11:23:21
3	Si 251.611†	382.7	29.0	0.8782 µg/L	0.8782 ppb	11:23:21
3	Sn 189.927†	5.7	1.8	0.7415 µg/L	0.7415 ppb	11:23:21
3	Ti 334.940†	1488.5	-28.2	-0.0508 µg/L	-0.0508 ppb	11:23:01
3	Tl 190.801†	-13.7	2.1	2.8636 µg/L	2.8636 ppb	11:23:21
3	U 367.007†	297.7	-21.7	-6.7889 µg/L	-6.7889 ppb	11:23:01
3	V 292.402†	322.0	-22.8	-0.1729 µg/L	-0.1729 ppb	11:23:01
3	Zn 213.857†	557.0	33.8	0.4493 µg/L	0.4493 ppb	11:23:21

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1204398.1	100.64	%	0.957				0.95%
Sc RADIAL	21368.8	99.4	%	0.46				0.47%
Y 371.029	711554.7	100.71	%	0.999				0.99%
Ag 328.068†	-70.5	-0.4995	µg/L	0.34045	-0.4995	ppb	0.34045	68.16%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	7.0	12.534	µg/L	6.3793	12.534	ppb	6.3793	50.90%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.5	-5.7689	µg/L	7.82975	-5.7689	ppb	7.82975	135.72%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	100.7	1.2944	µg/L	0.46419	1.2944	ppb	0.46419	35.86%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	1.9	0.0267	µg/L	0.10523	0.0267	ppb	0.10523	394.04%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	62.7	0.0277	µg/L	0.01251	0.0277	ppb	0.01251	45.13%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	11.1	7.4954	µg/L	2.94263	7.4954	ppb	2.94263	39.26%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	10.6	0.1723	µg/L	0.10904	0.1723	ppb	0.10904	63.28%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	3.2	0.0986	µg/L	0.21705	0.0986	ppb	0.21705	220.14%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                9.0      0.1709 µg/L       0.39056      0.1709 ppb        0.39056 228.48%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -58.1     -0.4093 µg/L       0.84809     -0.4093 ppb        0.84809 207.23%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -1.7     -5.6745 µg/L       7.77996     -5.6745 ppb        7.77996 137.10%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -27.1     -35.422 µg/L        8.9345     -35.422 ppb         8.9345  25.22%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           3.4      24.104 µg/L       13.9339      24.104 ppb        13.9339  57.81%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               -3.5     -0.0118 µg/L       0.03143     -0.0118 ppb        0.03143 266.20%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -1.0     -0.1226 µg/L       0.33812     -0.1226 ppb        0.33812 275.75%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -16.4     -15.773 µg/L       14.3716     -15.773 ppb        14.3716  91.12%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                7.8      0.2403 µg/L       0.53462      0.2403 ppb        0.53462 222.44%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 7.6      7.8195 µg/L       3.17545      7.8195 ppb        3.17545  40.61%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                0.9      0.2076 µg/L       2.21336      0.2076 ppb        2.21336 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -2.6     -8.8912 µg/L      18.04610     -8.8912 ppb       18.04610 202.97%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -1.7     -1.0627 µg/L       3.19120     -1.0627 ppb        3.19120 300.30%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -2.6       -3.61 µg/L         4.838       -3.61 ppb          4.838 133.89%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -57.9     -10.927 µg/L        3.5982     -10.927 ppb         3.5982  32.93%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               21.4      0.6429 µg/L       0.25645      0.6429 ppb        0.25645  39.89%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                0.1      0.0490 µg/L       0.96050      0.0490 ppb        0.96050 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                4.4      0.0517 µg/L       0.10667      0.0517 ppb        0.10667 206.29%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -170.1     -0.3286 µg/L       0.25749     -0.3286 ppb        0.25749  78.36%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                2.2      3.0878 µg/L       4.24671      3.0878 ppb        4.24671 137.53%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 0.8      0.2673 µg/L       6.97821      0.2673 ppb        6.97821 >999.9%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -22.9     -0.1683 µg/L       0.33614     -0.1683 ppb        0.33614 199.74%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               20.1      0.2654 µg/L       0.17127      0.2654 ppb        0.17127  64.54%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 8 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/7/2013 11:23:30**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21614.2	21614.2	101	%			11:24:18
1	Al 396.153Radial†	41.4	137.4	245.63	µg/L	245.63	ppb	11:24:18
1	Ca 317.933Radial†	392.2	323.0	218.66	µg/L	218.66	ppb	11:24:38
1	Fe 238.204 Radial†	61.4	30.5	103.32	µg/L	103.32	ppb	11:24:38
1	K 766.490 Radial†	780.8	96.3	125.78	µg/L	125.78	ppb	11:24:18
1	Mg 279.077 IEC†	46.4	42.9	301.06	µg/L	301.06	ppb	11:24:38
1	Na 589.592 Radial†	312.7	352.8	339.63	µg/L	339.63	ppb	11:24:18
1	Sr 421.552†	477.8	437.1	5.1483	µg/L	5.1483	ppb	11:24:18
1	Sc 361.383	1194041.5	1194041.5	99.780	%			11:26:16
1	Y 371.029	705208.7	705208.7	99.807	%			11:26:16
1	Ag 328.068†	1295.3	652.0	4.5857	µg/L	4.5857	ppb	11:26:18
1	As 188.979†	8.2	10.9	24.966	µg/L	24.966	ppb	11:26:38
1	B 249.677†	4171.9	3925.9	48.618	µg/L	48.618	ppb	11:26:18
1	Ba 233.527†	253.5	344.4	5.0386	µg/L	5.0386	ppb	11:26:38
1	Be 313.107†	4845.2	11645.6	5.1494	µg/L	5.1494	ppb	11:26:18
1	Cd 226.502†	231.7	322.1	5.1937	µg/L	5.1937	ppb	11:26:38
1	Co 228.616†	62.5	168.2	5.1409	µg/L	5.1409	ppb	11:26:38
1	Cr 267.716†	384.1	263.8	4.9719	µg/L	4.9719	ppb	11:26:38
1	Cu 324.752†	5367.9	1357.4	9.5888	µg/L	9.5888	ppb	11:26:18
1	Mn 257.610†	3495.3	3305.0	10.054	µg/L	10.054	ppb	11:26:38
1	Mo 202.031†	72.1	81.7	9.8397	µg/L	9.8397	ppb	11:26:38
1	Ni 231.604†	117.3	155.4	4.7829	µg/L	4.7829	ppb	11:26:38
1	P 214.914†	76.9	145.2	148.32	µg/L	148.32	ppb	11:26:38
1	Pb 220.353†	148.8	40.7	9.2310	µg/L	9.2310	ppb	11:26:38
1	S 181.975 Axial†	57.5	32.9	112.91	µg/L	112.91	ppb	11:26:38
1	Sb 206.836†	16.4	9.9	6.3527	µg/L	6.3527	ppb	11:26:38
1	Se 196.026†	43.8	27.1	38.3	µg/L	38.3	ppb	11:26:38
1	SiO2†	3017.0	1131.3	213.61	µg/L	213.61	ppb	11:26:18
1	Si 251.611†	3744.0	3397.6	102.03	µg/L	102.03	ppb	11:26:18
1	Sn 189.927†	23.6	19.7	8.0030	µg/L	8.0030	ppb	11:26:38
1	Ti 334.940†	3915.7	2403.6	4.6296	µg/L	4.6296	ppb	11:26:18
1	Tl 190.801†	3.4	19.3	26.630	µg/L	26.630	ppb	11:26:38
1	U 367.007†	467.0	147.8	45.623	µg/L	45.623	ppb	11:26:18
1	V 292.402†	1072.2	728.9	5.4769	µg/L	5.4769	ppb	11:26:18
1	Zn 213.857†	1296.9	775.1	10.235	µg/L	10.235	ppb	11:26:38
2	Sc RADIAL	21359.7	21359.7	99.4	%			11:24:58
2	Al 396.153Radial†	30.2	126.6	226.30	µg/L	226.30	ppb	11:24:58
2	Ca 317.933Radial†	390.1	325.5	220.36	µg/L	220.36	ppb	11:25:18
2	Fe 238.204 Radial†	61.4	31.3	105.86	µg/L	105.86	ppb	11:25:18
2	K 766.490 Radial†	770.0	94.6	123.61	µg/L	123.61	ppb	11:24:58
2	Mg 279.077 IEC†	49.6	46.6	327.48	µg/L	327.48	ppb	11:25:18
2	Na 589.592 Radial†	308.9	352.6	339.51	µg/L	339.51	ppb	11:24:58
2	Sr 421.552†	485.0	449.9	5.3000	µg/L	5.3000	ppb	11:24:58
2	Sc 361.383	1204968.7	1204968.7	100.69	%			11:26:40
2	Y 371.029	711608.0	711608.0	100.71	%			11:26:40
2	Ag 328.068†	1354.5	699.1	4.9270	µg/L	4.9270	ppb	11:26:42
2	As 188.979†	7.9	10.5	24.035	µg/L	24.035	ppb	11:27:02
2	B 249.677†	4114.0	3830.5	47.417	µg/L	47.417	ppb	11:26:42
2	Ba 233.527†	251.6	340.2	4.9751	µg/L	4.9751	ppb	11:27:02
2	Be 313.107†	4560.4	11318.7	5.0048	µg/L	5.0048	ppb	11:26:42
2	Cd 226.502†	207.8	296.2	4.7748	µg/L	4.7748	ppb	11:27:02
2	Co 228.616†	57.7	162.9	4.9785	µg/L	4.9785	ppb	11:27:02
2	Cr 267.716†	375.5	251.7	4.7499	µg/L	4.7499	ppb	11:27:02
2	Cu 324.752†	5309.7	1250.8	8.8333	µg/L	8.8333	ppb	11:26:42
2	Mn 257.610†	3491.7	3269.6	9.9457	µg/L	9.9457	ppb	11:27:02
2	Mo 202.031†	72.7	81.6	9.8339	µg/L	9.8339	ppb	11:27:02
2	Ni 231.604†	127.4	164.3	5.0574	µg/L	5.0574	ppb	11:27:02
2	P 214.914†	92.0	159.5	162.99	µg/L	162.99	ppb	11:27:02
2	Pb 220.353†	157.3	47.7	10.846	µg/L	10.846	ppb	11:27:02

2	S 181.975 Axial†	51.2	26.1	89.754 µg/L	89.754 ppb	11:27:02
2	Sb 206.836†	14.3	7.7	4.9197 µg/L	4.9197 ppb	11:27:02
2	Se 196.026†	31.9	14.8	21.0 µg/L	21.0 ppb	11:27:02
2	SiO2†	2942.1	1029.4	194.38 µg/L	194.38 ppb	11:26:42
2	Si 251.611†	3637.1	3257.5	97.818 µg/L	97.818 ppb	11:26:42
2	Sn 189.927†	22.2	18.1	7.3519 µg/L	7.3519 ppb	11:27:02
2	Ti 334.940†	3943.4	2395.6	4.6201 µg/L	4.6201 ppb	11:26:42
2	Tl 190.801†	0.5	16.4	22.585 µg/L	22.585 ppb	11:27:02
2	U 367.007†	433.2	110.0	33.786 µg/L	33.786 ppb	11:26:42
2	V 292.402†	976.7	624.4	4.7086 µg/L	4.7086 ppb	11:26:42
2	Zn 213.857†	1278.0	744.5	9.8276 µg/L	9.8276 ppb	11:27:02
3	Sc RADIAL	20877.7	20877.7	97.2 %		11:25:38
3	Al 396.153Radial†	32.7	129.9	232.18 µg/L	232.18 ppb	11:25:38
3	Ca 317.933Radial†	343.0	286.0	193.63 µg/L	193.63 ppb	11:25:58
3	Fe 238.204 Radial†	54.2	25.2	85.301 µg/L	85.301 ppb	11:25:58
3	K 766.490 Radial†	742.0	83.7	109.37 µg/L	109.37 ppb	11:25:38
3	Mg 279.077 IEC†	50.0	48.3	338.82 µg/L	338.82 ppb	11:25:58
3	Na 589.592 Radial†	327.6	379.0	364.95 µg/L	364.95 ppb	11:25:38
3	Sr 421.552†	474.7	450.6	5.3079 µg/L	5.3079 ppb	11:25:38
3	Sc 361.383	1135867.4	1135867.4	94.918 %		11:27:04
3	Y 371.029	671386.7	671386.7	95.020 %		11:27:04
3	Ag 328.068†	1374.4	801.9	5.6294 µg/L	5.6294 ppb	11:27:06
3	As 188.979†	7.5	10.6	24.280 µg/L	24.280 ppb	11:27:26
3	B 249.677†	3795.9	3743.9	46.421 µg/L	46.421 ppb	11:27:06
3	Ba 233.527†	243.6	347.0	5.0716 µg/L	5.0716 ppb	11:27:26
3	Be 313.107†	4125.7	11136.3	4.9242 µg/L	4.9242 ppb	11:27:06
3	Cd 226.502†	225.8	327.7	5.2879 µg/L	5.2879 ppb	11:27:26
3	Co 228.616†	78.9	188.7	5.7691 µg/L	5.7691 ppb	11:27:26
3	Cr 267.716†	406.6	307.2	5.7854 µg/L	5.7854 ppb	11:27:26
3	Cu 324.752†	5001.5	1246.8	8.8151 µg/L	8.8151 ppb	11:27:06
3	Mn 257.610†	3585.6	3579.5	10.888 µg/L	10.888 ppb	11:27:26
3	Mo 202.031†	73.9	87.3	10.516 µg/L	10.516 ppb	11:27:26
3	Ni 231.604†	146.7	192.3	5.9209 µg/L	5.9209 ppb	11:27:26
3	P 214.914†	89.9	162.9	166.44 µg/L	166.44 ppb	11:27:26
3	Pb 220.353†	146.6	46.0	10.428 µg/L	10.428 ppb	11:27:26
3	S 181.975 Axial†	57.5	35.9	123.20 µg/L	123.20 ppb	11:27:26
3	Sb 206.836†	22.2	16.9	10.790 µg/L	10.790 ppb	11:27:26
3	Se 196.026†	32.9	17.8	25.2 µg/L	25.2 ppb	11:27:26
3	SiO2†	2766.9	1022.6	193.11 µg/L	193.11 ppb	11:27:06
3	Si 251.611†	3323.1	3146.4	94.466 µg/L	94.466 ppb	11:27:06
3	Sn 189.927†	25.0	22.4	9.0889 µg/L	9.0889 ppb	11:27:26
3	Ti 334.940†	3661.8	2337.2	4.4923 µg/L	4.4923 ppb	11:27:06
3	Tl 190.801†	0.9	16.8	23.148 µg/L	23.148 ppb	11:27:26
3	U 367.007†	485.7	191.5	59.378 µg/L	59.378 ppb	11:27:06
3	V 292.402†	778.5	474.6	3.6400 µg/L	3.6400 ppb	11:27:06
3	Zn 213.857†	1315.4	861.2	11.372 µg/L	11.372 ppb	11:27:26

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1178292.6	98.464	%	3.1040				3.15%
Sc RADIAL	21283.9	99.1	%	1.74				1.76%
Y 371.029	696067.8	98.513	%	3.0588				3.10%
Ag 328.068†	717.6	5.0474	µg/L	0.53213	5.0474	ppb	0.53213	10.54%
QC value within limits for Ag 328.068 Recovery = 100.95%								
Al 396.153Radial†	131.3	234.71	µg/L	9.910	234.71	ppb	9.910	4.22%
QC value within limits for Al 396.153Radial Recovery = 117.35%								
As 188.979†	10.7	24.427	µg/L	0.4823	24.427	ppb	0.4823	1.97%
QC value within limits for As 188.979 Recovery = 81.42%								
B 249.677†	3833.4	47.485	µg/L	1.1003	47.485	ppb	1.1003	2.32%
QC value within limits for B 249.677 Recovery = 94.97%								
Ba 233.527†	343.9	5.0284	µg/L	0.04904	5.0284	ppb	0.04904	0.98%
QC value within limits for Ba 233.527 Recovery = 100.57%								
Be 313.107†	11366.9	5.0261	µg/L	0.11409	5.0261	ppb	0.11409	2.27%
QC value within limits for Be 313.107 Recovery = 100.52%								
Ca 317.933Radial†	311.5	210.89	µg/L	14.968	210.89	ppb	14.968	7.10%
QC value within limits for Ca 317.933Radial Recovery = 105.44%								
Cd 226.502†	315.3	5.0855	µg/L	0.27314	5.0855	ppb	0.27314	5.37%
QC value within limits for Cd 226.502 Recovery = 101.71%								
Co 228.616†	173.3	5.2962	µg/L	0.41756	5.2962	ppb	0.41756	7.88%

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   QC value within limits for Co 228.616  Recovery = 105.92%
Cr 267.716†              274.2      5.1691 µg/L       0.54520      5.1691 ppb        0.54520  10.55%
   QC value within limits for Cr 267.716  Recovery = 103.38%
Cu 324.752†             1285.0      9.0791 µg/L       0.44154      9.0791 ppb        0.44154   4.86%
   QC value within limits for Cu 324.752  Recovery = 90.79%
Fe 238.204 Radial†        29.0      98.159 µg/L       11.2083      98.159 ppb        11.2083  11.42%
   QC value within limits for Fe 238.204 Radial  Recovery = 98.16%
K 766.490 Radial†         91.5      119.58 µg/L         8.914      119.58 ppb          8.914   7.45%
   QC value within limits for K 766.490 Radial  Recovery = 79.72%
Mg 279.077 IEC†           45.9      322.45 µg/L        19.376      322.45 ppb         19.376   6.01%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.48%
Mn 257.610†             3384.7      10.296 µg/L        0.5158      10.296 ppb         0.5158   5.01%
   QC value within limits for Mn 257.610  Recovery = 102.96%
Mo 202.031†               83.5      10.063 µg/L        0.3922      10.063 ppb         0.3922   3.90%
   QC value within limits for Mo 202.031  Recovery = 100.63%
Na 589.592 Radial†       361.5      348.03 µg/L        14.649      348.03 ppb         14.649   4.21%
   QC value within limits for Na 589.592 Radial  Recovery = 116.01%
Ni 231.604†              170.6      5.2537 µg/L       0.59390      5.2537 ppb        0.59390  11.30%
   QC value within limits for Ni 231.604  Recovery = 105.07%
P 214.914†               155.9      159.25 µg/L         9.621      159.25 ppb          9.621   6.04%
   QC value within limits for P 214.914  Recovery = 106.17%
Pb 220.353†               44.8      10.169 µg/L        0.8383      10.169 ppb         0.8383   8.24%
   QC value within limits for Pb 220.353  Recovery = 101.69%
S 181.975 Axial†          31.6      108.62 µg/L        17.131      108.62 ppb         17.131  15.77%
   QC value within limits for S 181.975 Axial  Recovery = 108.62%
Sb 206.836†               11.5      7.3540 µg/L       3.06044      7.3540 ppb        3.06044  41.62%
   QC value within limits for Sb 206.836  Recovery = 73.54%
Se 196.026†               19.9        28.2 µg/L          9.03        28.2 ppb           9.03  32.03%
   QC value within limits for Se 196.026  Recovery = 93.98%
SiO2†                   1061.1      200.37 µg/L        11.486      200.37 ppb         11.486   5.73%
   QC value within limits for SiO2  Recovery = 94.07%
Si 251.611†             3267.2      98.105 µg/L        3.7904      98.105 ppb         3.7904   3.86%
   QC value within limits for Si 251.611  Recovery = 98.10%
Sn 189.927†               20.1      8.1480 µg/L       0.87752      8.1480 ppb        0.87752  10.77%
   QC value within limits for Sn 189.927  Recovery = 81.48%
Sr 421.552†              445.9      5.2521 µg/L       0.08997      5.2521 ppb        0.08997   1.71%
   QC value within limits for Sr 421.552  Recovery = 105.04%
Ti 334.940†             2378.8      4.5807 µg/L       0.07669      4.5807 ppb        0.07669   1.67%
   QC value within limits for Ti 334.940  Recovery = 91.61%
Tl 190.801†               17.5      24.121 µg/L        2.1909      24.121 ppb         2.1909   9.08%
   QC value within limits for Tl 190.801  Recovery = 120.60%
U 367.007†               149.8      46.262 µg/L       12.8082      46.262 ppb        12.8082  27.69%
   QC value within limits for U 367.007  Recovery = 92.52%
V 292.402†               609.3      4.6085 µg/L       0.92250      4.6085 ppb        0.92250  20.02%
   QC value within limits for V 292.402  Recovery = 92.17%
Zn 213.857†              793.6      10.478 µg/L        0.8002      10.478 ppb         0.8002   7.64%
   QC value within limits for Zn 213.857  Recovery = 104.78%
All analyte(s) passed QC.
```

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

Autosampler Location: 103
Date Collected: 11/7/2013 11:27:34
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20251.2	20251.2	94.2	%			11:28:07
1	Al 396.153Radial†	271596.1	288274.1	515630	µg/L	515630	ppb	11:28:05
1	Ca 317.933Radial†	640468.0	679503.4	460110	µg/L	460110	ppb	11:28:05
1	Fe 238.204 Radial†	51996.6	55140.6	187050	µg/L	187050	ppb	11:28:07
1	K 766.490 Radial†	610.1	-32.7	-61.161	µg/L	-61.161	ppb	11:28:07
1	Mg 279.077 IEC†	64943.7	68905.5	483740	µg/L	483740	ppb	11:28:07
1	Na 589.592 Radial†	-37.3	2.3	0.7237	µg/L	0.7237	ppb	11:28:07
1	Sr 421.552†	201.6	176.0	-1.5119	µg/L	-1.5119	ppb	11:28:07
1	Sc 361.383	1125022.4	1125022.4	94.012	%			11:28:33
1	Y 371.029	649697.8	649697.8	91.951	%			11:28:33
1	Ag 328.068†	2807.6	2340.3	1.9690	µg/L	1.9690	ppb	11:28:33
1	As 188.979†	-14.6	-12.8	2.8064	µg/L	2.8064	ppb	11:28:53
1	B 249.677†	50483.9	53444.2	-37.092	µg/L	-37.092	ppb	11:28:33
1	Ba 233.527†	152.3	252.4	1.4287	µg/L	1.4287	ppb	11:28:53
1	Be 313.107†	-7089.9	-751.8	-0.3324	µg/L	-0.3324	ppb	11:28:33
1	Cd 226.502†	1337.5	1512.6	-0.0308	µg/L	-0.0308	ppb	11:28:53
1	Co 228.616†	-58.7	43.2	-0.2766	µg/L	-0.2766	ppb	11:28:53
1	Cr 267.716†	152.3	40.8	2.0299	µg/L	2.0299	ppb	11:28:53
1	Cu 324.752†	-1228.2	-5328.8	-8.3653	µg/L	-8.3653	ppb	11:28:53
1	Mn 257.610†	3044.2	3040.0	-4.5482	µg/L	-4.5482	ppb	11:28:33
1	Mo 202.031†	-180.1	-182.2	-1.6799	µg/L	-1.6799	ppb	11:28:53
1	Ni 231.604†	-7.5	29.8	-0.0688	µg/L	-0.0688	ppb	11:28:53
1	P 214.914†	50.8	122.2	-13.661	µg/L	-13.661	ppb	11:28:53
1	Pb 220.353†	57.1	-47.7	5.7364	µg/L	5.7364	ppb	11:28:53
1	S 181.975 Axial†	76.7	56.9	33.731	µg/L	33.731	ppb	11:28:53
1	Sb 206.836†	16.8	11.4	12.679	µg/L	12.679	ppb	11:28:53
1	Se 196.026†	-37.9	-57.1	-15.8	µg/L	-15.8	ppb	11:28:53
1	SiO2†	1643.0	-144.8	-27.317	µg/L	-27.317	ppb	11:28:53
1	Si 251.611†	729.8	421.6	34.468	µg/L	34.468	ppb	11:28:53
1	Sn 189.927†	-113.6	-124.8	-8.4675	µg/L	-8.4675	ppb	11:28:53
1	Ti 334.940†	-8244.2	-10290.0	1.3187	µg/L	1.3187	ppb	11:28:33
1	Tl 190.801†	-20.1	-5.6	-12.032	µg/L	-12.032	ppb	11:28:53
1	U 367.007†	3679.6	3593.8	75.603	µg/L	75.603	ppb	11:28:33
1	V 292.402†	-3070.4	-3611.6	2.6792	µg/L	2.6792	ppb	11:28:53
1	Zn 213.857†	2486.2	2120.0	0.3959	µg/L	0.3959	ppb	11:28:53
2	Sc RADIAL	20546.9	20546.9	95.6	%			11:28:11
2	Al 396.153Radial†	282780.0	295821.5	529140	µg/L	529140	ppb	11:28:09
2	Ca 317.933Radial†	677112.7	708043.1	479440	µg/L	479440	ppb	11:28:09
2	Fe 238.204 Radial†	53532.7	55952.8	189810	µg/L	189810	ppb	11:28:11
2	K 766.490 Radial†	594.8	-58.0	-94.559	µg/L	-94.559	ppb	11:28:11
2	Mg 279.077 IEC†	66837.8	69894.3	490690	µg/L	490690	ppb	11:28:11
2	Na 589.592 Radial†	-36.9	3.3	1.6688	µg/L	1.6688	ppb	11:28:11
2	Sr 421.552†	175.1	145.2	-2.0254	µg/L	-2.0254	ppb	11:28:11
2	Sc 361.383	1124390.1	1124390.1	93.959	%			11:28:55
2	Y 371.029	649153.6	649153.6	91.874	%			11:28:55
2	Ag 328.068†	2787.4	2320.4	1.2772	µg/L	1.2772	ppb	11:28:55
2	As 188.979†	-19.5	-18.0	-8.6354	µg/L	-8.6354	ppb	11:29:15
2	B 249.677†	50786.4	53796.4	-43.060	µg/L	-43.060	ppb	11:28:55
2	Ba 233.527†	114.9	212.6	0.8168	µg/L	0.8168	ppb	11:29:15
2	Be 313.107†	-7271.6	-949.4	-0.4198	µg/L	-0.4198	ppb	11:28:55
2	Cd 226.502†	1372.5	1550.6	0.2230	µg/L	0.2230	ppb	11:29:15
2	Co 228.616†	-63.4	38.1	-0.4567	µg/L	-0.4567	ppb	11:29:15
2	Cr 267.716†	170.4	60.1	2.4064	µg/L	2.4064	ppb	11:29:15
2	Cu 324.752†	-1230.5	-5331.9	-7.9530	µg/L	-7.9530	ppb	11:29:15
2	Mn 257.610†	3087.1	3087.5	-4.6001	µg/L	-4.6001	ppb	11:28:55
2	Mo 202.031†	-178.7	-180.8	-1.2195	µg/L	-1.2195	ppb	11:29:15
2	Ni 231.604†	17.6	56.5	0.7398	µg/L	0.7398	ppb	11:29:15
2	P 214.914†	53.1	124.6	-11.958	µg/L	-11.958	ppb	11:29:15
2	Pb 220.353†	50.1	-55.1	4.5301	µg/L	4.5301	ppb	11:29:15

2	S 181.975 Axial†	65.4	44.9	-11.784	µg/L	-11.784	ppb	11:29:15
2	Sb 206.836†	6.0	-0.2	5.4112	µg/L	5.4112	ppb	11:29:15
2	Se 196.026†	-28.5	-47.2	-0.695	µg/L	-0.695	ppb	11:29:15
2	SiO2†	1631.7	-155.9	-29.398	µg/L	-29.398	ppb	11:29:15
2	Si 251.611†	714.4	405.7	34.304	µg/L	34.304	ppb	11:29:15
2	Sn 189.927†	-96.8	-106.9	0.4878	µg/L	0.4878	ppb	11:29:15
2	Ti 334.940†	-8129.7	-10173.1	2.5159	µg/L	2.5159	ppb	11:28:55
2	Tl 190.801†	-16.0	-1.2	-6.1124	µg/L	-6.1124	ppb	11:29:15
2	U 367.007†	3769.9	3692.1	88.749	µg/L	88.749	ppb	11:28:55
2	V 292.402†	-3051.9	-3593.7	3.2508	µg/L	3.2508	ppb	11:29:15
2	Zn 213.857†	2457.4	2090.7	-0.4025	µg/L	-0.4025	ppb	11:29:15
3	Sc RADIAL	20485.2	20485.2	95.3	%			11:28:15
3	Al 396.153Radial†	283513.2	297481.7	532100	µg/L	532100	ppb	11:28:13
3	Ca 317.933Radial†	674308.1	707234.9	478890	µg/L	478890	ppb	11:28:13
3	Fe 238.204 Radial†	53444.1	56028.6	190070	µg/L	190070	ppb	11:28:15
3	K 766.490 Radial†	529.1	-125.0	-182.01	µg/L	-182.01	ppb	11:28:15
3	Mg 279.077 IEC†	66788.3	70053.0	491800	µg/L	491800	ppb	11:28:15
3	Na 589.592 Radial†	-94.0	-56.8	-56.130	µg/L	-56.130	ppb	11:28:15
3	Sr 421.552†	164.4	134.4	-2.1475	µg/L	-2.1475	ppb	11:28:15
3	Sc 361.383	1130184.6	1130184.6	94.443	%			11:29:17
3	Y 371.029	652582.3	652582.3	92.359	%			11:29:17
3	Ag 328.068†	2664.1	2174.7	0.2788	µg/L	0.2788	ppb	11:29:17
3	As 188.979†	-17.3	-15.6	-3.1047	µg/L	-3.1047	ppb	11:29:38
3	B 249.677†	51185.0	53941.2	-42.183	µg/L	-42.183	ppb	11:29:17
3	Ba 233.527†	117.7	215.0	0.8476	µg/L	0.8476	ppb	11:29:38
3	Be 313.107†	-6947.5	-566.5	-0.2505	µg/L	-0.2505	ppb	11:29:17
3	Cd 226.502†	1343.0	1511.9	-0.4359	µg/L	-0.4359	ppb	11:29:38
3	Co 228.616†	-51.7	50.9	-0.0668	µg/L	-0.0668	ppb	11:29:38
3	Cr 267.716†	170.5	59.3	2.4043	µg/L	2.4043	ppb	11:29:38
3	Cu 324.752†	-1233.6	-5328.6	-7.8982	µg/L	-7.8982	ppb	11:29:38
3	Mn 257.610†	3051.1	3032.6	-4.8030	µg/L	-4.8030	ppb	11:29:17
3	Mo 202.031†	-173.7	-174.5	-0.4153	µg/L	-0.4153	ppb	11:29:38
3	Ni 231.604†	16.7	55.5	0.7064	µg/L	0.7064	ppb	11:29:38
3	P 214.914†	26.8	96.5	-40.486	µg/L	-40.486	ppb	11:29:38
3	Pb 220.353†	68.9	-35.5	9.1236	µg/L	9.1236	ppb	11:29:38
3	S 181.975 Axial†	70.4	49.8	4.6537	µg/L	4.6537	ppb	11:29:38
3	Sb 206.836†	9.0	3.0	7.4239	µg/L	7.4239	ppb	11:29:38
3	Se 196.026†	-34.4	-53.2	-9.21	µg/L	-9.21	ppb	11:29:38
3	SiO2†	1648.1	-147.3	-27.786	µg/L	-27.786	ppb	11:29:38
3	Si 251.611†	658.9	343.0	32.438	µg/L	32.438	ppb	11:29:38
3	Sn 189.927†	-120.3	-131.3	-9.4267	µg/L	-9.4267	ppb	11:29:38
3	Ti 334.940†	-8297.1	-10306.0	2.2353	µg/L	2.2353	ppb	11:29:17
3	Tl 190.801†	-19.4	-4.7	-10.988	µg/L	-10.988	ppb	11:29:38
3	U 367.007†	3722.4	3621.3	65.339	µg/L	65.339	ppb	11:29:17
3	V 292.402†	-3082.2	-3609.2	3.1740	µg/L	3.1740	ppb	11:29:38
3	Zn 213.857†	2451.5	2071.1	-0.7088	µg/L	-0.7088	ppb	11:29:38

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1126532.4	94.138	%	0.2656				0.28%
Sc RADIAL	20427.8	95.1	%	0.73				0.76%
Y 371.029	650477.9	92.061	%	0.2608				0.28%
Ag 328.068†	2278.5	1.1750	µg/L	0.84974	1.1750	ppb	0.84974	72.32%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	293859.1	525620	µg/L	8779.4	525620	ppb	8779.4	1.67%
QC value within limits for Al 396.153Radial Recovery = 105.12%								
As 188.979†	-15.5	-2.9779	µg/L	5.72194	-2.9779	ppb	5.72194	192.15%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	53727.3	-40.778	µg/L	3.2222	-40.778	ppb	3.2222	7.90%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	226.7	1.0310	µg/L	0.34475	1.0310	ppb	0.34475	33.44%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-755.9	-0.3342	µg/L	0.08467	-0.3342	ppb	0.08467	25.33%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	698260.4	472820	µg/L	11004.6	472820	ppb	11004.6	2.33%
QC value within limits for Ca 317.933Radial Recovery = 94.56%								
Cd 226.502†	1525.0	-0.0813	µg/L	0.33231	-0.0813	ppb	0.33231	408.98%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	44.0	-0.2667	µg/L	0.19515	-0.2667	ppb	0.19515	73.18%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               53.4      2.2802 µg/L       0.21679      2.2802 ppb        0.21679   9.51%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -5329.8     -8.0722 µg/L       0.25534     -8.0722 ppb        0.25534   3.16%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†     55707.3      188980 µg/L        1670.0      188980 ppb         1670.0   0.88%
   QC value within limits for Fe 238.204 Radial  Recovery = 94.49%
K 766.490 Radial†        -71.9     -112.58 µg/L        62.406     -112.58 ppb         62.406  55.43%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†        69617.6      488740 µg/L        4365.0      488740 ppb         4365.0   0.89%
   QC value within limits for Mg 279.077 IEC  Recovery = 97.75%
Mn 257.610†             3053.4     -4.6504 µg/L       0.13468     -4.6504 ppb        0.13468   2.90%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†             -179.2     -1.1049 µg/L       0.64005     -1.1049 ppb        0.64005  57.93%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -17.1     -17.913 µg/L       33.1008     -17.913 ppb        33.1008 184.79%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               47.3      0.4591 µg/L       0.45755      0.4591 ppb        0.45755  99.65%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               114.4     -22.035 µg/L       16.0019     -22.035 ppb        16.0019  72.62%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -46.1      6.4634 µg/L       2.38146      6.4634 ppb        2.38146  36.85%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          50.5      8.8669 µg/L      23.04845      8.8669 ppb       23.04845 259.94%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                4.7      8.5045 µg/L       3.75226      8.5045 ppb        3.75226  44.12%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -52.5       -8.56 µg/L         7.565       -8.56 ppb          7.565  88.34%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -149.3     -28.167 µg/L        1.0918     -28.167 ppb         1.0918   3.88%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              390.1      33.737 µg/L        1.1277      33.737 ppb         1.1277   3.34%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -121.0     -5.8022 µg/L       5.46831     -5.8022 ppb        5.46831  94.25%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              151.9     -1.8949 µg/L       0.33728     -1.8949 ppb        0.33728  17.80%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†           -10256.4      2.0233 µg/L       0.62611      2.0233 ppb        0.62611  30.95%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -3.8     -9.7108 µg/L       3.15970     -9.7108 ppb        3.15970  32.54%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†              3635.7      76.563 µg/L       11.7344      76.563 ppb        11.7344  15.33%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†             -3604.8      3.0347 µg/L       0.31026      3.0347 ppb        0.31026  10.22%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             2093.9     -0.2384 µg/L       0.57034     -0.2384 ppb        0.57034 239.19%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 10 **Autosampler Location: 104**
Sample ID: ICSAB **Date Collected: 11/7/2013 11:29:46**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20129.0	20129.0	93.7	%			11:30:18
1	Al 396.153Radial†	276336.4	295083.4	527810	µg/L	527810	ppb	11:30:16
1	Ca 317.933Radial†	648971.5	692705.5	469060	µg/L	469060	ppb	11:30:16
1	Fe 238.204 Radial†	51574.5	55024.8	186650	µg/L	186650	ppb	11:30:18
1	K 766.490 Radial†	4419.3	4037.5	5264.1	µg/L	5264.1	ppb	11:30:18
1	Mg 279.077 IEC†	64190.9	68520.2	481040	µg/L	481040	ppb	11:30:18
1	Na 589.592 Radial†	5493.3	5905.9	5684.7	µg/L	5684.7	ppb	11:30:18
1	Sr 421.552†	40185.7	42859.9	501.37	µg/L	501.37	ppb	11:30:18
1	Sc 361.383	1114476.5	1114476.5	93.131	%			11:30:44
1	Y 371.029	644463.9	644463.9	91.210	%			11:30:44
1	Ag 328.068†	38099.4	40263.4	271.36	µg/L	271.36	ppb	11:30:44
1	As 188.979†	188.8	205.4	505.56	µg/L	505.56	ppb	11:31:04
1	B 249.677†	86038.5	92129.4	447.09	µg/L	447.09	ppb	11:30:44
1	Ba 233.527†	31009.8	33387.4	486.24	µg/L	486.24	ppb	11:30:44
1	Be 313.107†	497519.4	541005.8	239.22	µg/L	239.22	ppb	11:30:44
1	Cd 226.502†	27366.6	29475.0	452.09	µg/L	452.09	ppb	11:31:04
1	Co 228.616†	13406.2	14500.6	441.12	µg/L	441.12	ppb	11:31:04
1	Cr 267.716†	23245.3	24838.6	472.08	µg/L	472.08	ppb	11:31:04
1	Cu 324.752†	72474.6	73797.9	548.69	µg/L	548.69	ppb	11:30:44
1	Mn 257.610†	144658.0	155129.8	458.64	µg/L	458.64	ppb	11:30:44
1	Mo 202.031†	3659.1	3938.4	494.16	µg/L	494.16	ppb	11:31:04
1	Ni 231.604†	13142.3	14149.4	434.69	µg/L	434.69	ppb	11:31:04
1	P 214.914†	2316.6	2555.7	2469.8	µg/L	2469.8	ppb	11:31:04
1	Pb 220.353†	2019.5	2060.0	485.97	µg/L	485.97	ppb	11:31:04
1	S 181.975 Axial†	753.3	784.1	2532.1	µg/L	2532.1	ppb	11:31:04
1	Sb 206.836†	747.2	795.8	512.43	µg/L	512.43	ppb	11:31:04
1	Se 196.026†	1475.5	1567.5	2280	µg/L	2280	ppb	11:31:04
1	SiO2†	53472.0	55523.6	10489	µg/L	10489	ppb	11:30:44
1	Si 251.611†	152942.1	163868.4	4941.9	µg/L	4941.9	ppb	11:30:44
1	Sn 189.927†	1006.6	1077.0	478.35	µg/L	478.35	ppb	11:31:04
1	Ti 334.940†	234708.4	250499.6	505.38	µg/L	505.38	ppb	11:30:44
1	Tl 190.801†	303.5	341.8	464.74	µg/L	464.74	ppb	11:31:04
1	U 367.007†	5099.5	5155.5	562.42	µg/L	562.42	ppb	11:30:44
1	V 292.402†	60886.5	65031.8	509.35	µg/L	509.35	ppb	11:30:44
1	Zn 213.857†	35488.5	37581.4	468.29	µg/L	468.29	ppb	11:30:44
2	Sc RADIAL	20378.1	20378.1	94.8	%			11:30:22
2	Al 396.153Radial†	283795.7	299342.5	535420	µg/L	535420	ppb	11:30:20
2	Ca 317.933Radial†	669975.9	706384.1	478320	µg/L	478320	ppb	11:30:20
2	Fe 238.204 Radial†	52399.9	55222.1	187320	µg/L	187320	ppb	11:30:22
2	K 766.490 Radial†	4361.7	3919.2	5109.5	µg/L	5109.5	ppb	11:30:22
2	Mg 279.077 IEC†	65434.5	68993.7	484360	µg/L	484360	ppb	11:30:22
2	Na 589.592 Radial†	5560.7	5905.4	5684.2	µg/L	5684.2	ppb	11:30:22
2	Sr 421.552†	40936.8	43127.5	504.45	µg/L	504.45	ppb	11:30:22
2	Sc 361.383	1114207.2	1114207.2	93.108	%			11:31:06
2	Y 371.029	644413.4	644413.4	91.203	%			11:31:06
2	Ag 328.068†	38153.1	40331.0	271.58	µg/L	271.58	ppb	11:31:06
2	As 188.979†	178.3	194.2	480.15	µg/L	480.15	ppb	11:31:26
2	B 249.677†	86476.7	92622.4	450.80	µg/L	450.80	ppb	11:31:06
2	Ba 233.527†	30969.2	33351.9	485.72	µg/L	485.72	ppb	11:31:06
2	Be 313.107†	498844.3	542557.9	239.91	µg/L	239.91	ppb	11:31:06
2	Cd 226.502†	27465.8	29588.6	453.84	µg/L	453.84	ppb	11:31:26
2	Co 228.616†	13468.8	14571.3	443.28	µg/L	443.28	ppb	11:31:26
2	Cr 267.716†	23347.8	24954.8	474.27	µg/L	474.27	ppb	11:31:26
2	Cu 324.752†	72514.7	73859.8	549.24	µg/L	549.24	ppb	11:31:06
2	Mn 257.610†	144898.2	155425.3	459.43	µg/L	459.43	ppb	11:31:06
2	Mo 202.031†	3684.5	3966.7	497.69	µg/L	497.69	ppb	11:31:26
2	Ni 231.604†	13259.3	14278.5	438.66	µg/L	438.66	ppb	11:31:26
2	P 214.914†	2327.5	2567.9	2483.0	µg/L	2483.0	ppb	11:31:26
2	Pb 220.353†	2039.5	2082.0	491.28	µg/L	491.28	ppb	11:31:26

2	S 181.975 Axial†	755.5	786.7	2538.9	µg/L	2538.9	ppb	11:31:26
2	Sb 206.836†	750.3	799.3	514.67	µg/L	514.67	ppb	11:31:26
2	Se 196.026†	1472.9	1565.0	2280	µg/L	2280	ppb	11:31:26
2	SiO2†	53564.7	55637.1	10510	µg/L	10510	ppb	11:31:06
2	Si 251.611†	153364.1	164361.3	4956.7	µg/L	4956.7	ppb	11:31:06
2	Sn 189.927†	1020.7	1092.3	485.39	µg/L	485.39	ppb	11:31:26
2	Ti 334.940†	234899.0	250765.2	506.36	µg/L	506.36	ppb	11:31:06
2	Tl 190.801†	311.7	350.6	476.84	µg/L	476.84	ppb	11:31:26
2	U 367.007†	5145.7	5206.4	573.20	µg/L	573.20	ppb	11:31:06
2	V 292.402†	60957.2	65123.6	510.17	µg/L	510.17	ppb	11:31:06
2	Zn 213.857†	35423.2	37520.5	467.33	µg/L	467.33	ppb	11:31:06
3	Sc RADIAL	20184.4	20184.4	93.9	%			11:30:26
3	Al 396.153Radial†	286173.4	304746.2	545090	µg/L	545090	ppb	11:30:24
3	Ca 317.933Radial†	677542.9	721221.0	488370	µg/L	488370	ppb	11:30:24
3	Fe 238.204 Radial†	52209.8	55550.1	188430	µg/L	188430	ppb	11:30:26
3	K 766.490 Radial†	4304.9	3902.9	5088.1	µg/L	5088.1	ppb	11:30:26
3	Mg 279.077 IEC†	65138.8	69341.2	486800	µg/L	486800	ppb	11:30:26
3	Na 589.592 Radial†	5537.6	5937.0	5714.7	µg/L	5714.7	ppb	11:30:26
3	Sr 421.552†	40754.9	43348.2	506.97	µg/L	506.97	ppb	11:30:26
3	Sc 361.383	1099374.1	1099374.1	91.869	%			11:31:29
3	Y 371.029	635848.0	635848.0	89.990	%			11:31:29
3	Ag 328.068†	37783.9	40482.0	272.36	µg/L	272.36	ppb	11:31:29
3	As 188.979†	183.2	202.1	498.50	µg/L	498.50	ppb	11:31:49
3	B 249.677†	85264.5	92556.1	445.81	µg/L	445.81	ppb	11:31:29
3	Ba 233.527†	30617.1	33417.4	486.66	µg/L	486.66	ppb	11:31:29
3	Be 313.107†	492126.9	542474.7	239.87	µg/L	239.87	ppb	11:31:29
3	Cd 226.502†	27394.3	29908.9	458.87	µg/L	458.87	ppb	11:31:49
3	Co 228.616†	13473.7	14771.8	449.40	µg/L	449.40	ppb	11:31:49
3	Cr 267.716†	23290.7	25230.9	479.50	µg/L	479.50	ppb	11:31:49
3	Cu 324.752†	71604.9	73920.3	549.85	µg/L	549.85	ppb	11:31:29
3	Mn 257.610†	142914.3	155365.5	459.19	µg/L	459.19	ppb	11:31:29
3	Mo 202.031†	3661.6	3995.2	501.22	µg/L	501.22	ppb	11:31:49
3	Ni 231.604†	13189.6	14394.8	442.24	µg/L	442.24	ppb	11:31:49
3	P 214.914†	2329.8	2604.2	2520.7	µg/L	2520.7	ppb	11:31:49
3	Pb 220.353†	2054.4	2127.8	502.02	µg/L	502.02	ppb	11:31:49
3	S 181.975 Axial†	773.4	817.1	2640.8	µg/L	2640.8	ppb	11:31:49
3	Sb 206.836†	747.7	807.4	519.85	µg/L	519.85	ppb	11:31:49
3	Se 196.026†	1471.0	1584.3	2310	µg/L	2310	ppb	11:31:49
3	SiO2†	52940.7	55734.1	10529	µg/L	10529	ppb	11:31:29
3	Si 251.611†	151377.1	164420.8	4958.6	µg/L	4958.6	ppb	11:31:29
3	Sn 189.927†	1011.4	1097.0	488.20	µg/L	488.20	ppb	11:31:49
3	Ti 334.940†	232049.7	251067.6	507.45	µg/L	507.45	ppb	11:31:29
3	Tl 190.801†	293.4	335.2	455.31	µg/L	455.31	ppb	11:31:49
3	U 367.007†	5169.4	5306.8	597.10	µg/L	597.10	ppb	11:31:29
3	V 292.402†	60356.1	65352.5	512.08	µg/L	512.08	ppb	11:31:29
3	Zn 213.857†	35136.3	37721.5	469.82	µg/L	469.82	ppb	11:31:29

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1109352.6	92.703	%	0.7222				0.78%
Sc RADIAL	20230.5	94.1	%	0.61				0.65%
Y 371.029	641575.1	90.801	%	0.7020				0.77%
Ag 328.068†	40358.8	271.77	µg/L	0.525	271.77	ppb	0.525	0.19%
QC value within limits for Ag 328.068 Recovery = 108.71%								
Al 396.153Radial†	299724.0	536110	µg/L	8662.9	536110	ppb	8662.9	1.62%
QC value within limits for Al 396.153Radial Recovery = 107.22%								
As 188.979†	200.6	494.74	µg/L	13.116	494.74	ppb	13.116	2.65%
QC value within limits for As 188.979 Recovery = 98.95%								
B 249.677†	92436.0	447.90	µg/L	2.591	447.90	ppb	2.591	0.58%
QC value within limits for B 249.677 Recovery = 89.58%								
Ba 233.527†	33385.6	486.21	µg/L	0.474	486.21	ppb	0.474	0.10%
QC value within limits for Ba 233.527 Recovery = 97.24%								
Be 313.107†	542012.8	239.66	µg/L	0.386	239.66	ppb	0.386	0.16%
QC value within limits for Be 313.107 Recovery = 95.87%								
Ca 317.933Radial†	706770.2	478580	µg/L	9658.8	478580	ppb	9658.8	2.02%
QC value within limits for Ca 317.933Radial Recovery = 95.72%								
Cd 226.502†	29657.5	454.93	µg/L	3.520	454.93	ppb	3.520	0.77%
QC value within limits for Cd 226.502 Recovery = 90.99%								
Co 228.616†	14614.6	444.60	µg/L	4.293	444.60	ppb	4.293	0.97%

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   QC value within limits for Co 228.616  Recovery = 88.92%
Cr 267.716†            25008.1      475.28 µg/L         3.812      475.28 ppb          3.812   0.80%
   QC value within limits for Cr 267.716  Recovery = 95.06%
Cu 324.752†            73859.3      549.26 µg/L         0.583      549.26 ppb          0.583   0.11%
   QC value within limits for Cu 324.752  Recovery = 109.85%
Fe 238.204 Radial†     55265.7      187460 µg/L         900.0      187460 ppb          900.0   0.48%
   QC value within limits for Fe 238.204 Radial  Recovery = 93.73%
K 766.490 Radial†       3953.2      5153.9 µg/L         96.05      5153.9 ppb          96.05   1.86%
   QC value within limits for K 766.490 Radial  Recovery = 103.08%
Mg 279.077 IEC†        68951.7      484070 µg/L        2893.3      484070 ppb         2893.3   0.60%
   QC value within limits for Mg 279.077 IEC  Recovery = 96.81%
Mn 257.610†           155306.9      459.09 µg/L         0.404      459.09 ppb          0.404   0.09%
   QC value within limits for Mn 257.610  Recovery = 91.82%
Mo 202.031†             3966.7      497.69 µg/L         3.531      497.69 ppb          3.531   0.71%
   QC value within limits for Mo 202.031  Recovery = 99.54%
Na 589.592 Radial†      5916.1      5694.5 µg/L         17.46      5694.5 ppb          17.46   0.31%
   QC value within limits for Na 589.592 Radial  Recovery = 113.89%
Ni 231.604†            14274.2      438.53 µg/L         3.774      438.53 ppb          3.774   0.86%
   QC value within limits for Ni 231.604  Recovery = 87.71%
P 214.914†              2575.9      2491.2 µg/L         26.39      2491.2 ppb          26.39   1.06%
   QC value within limits for P 214.914  Recovery = 99.65%
Pb 220.353†             2089.9      493.09 µg/L         8.177      493.09 ppb          8.177   1.66%
   QC value within limits for Pb 220.353  Recovery = 98.62%
S 181.975 Axial†         796.0      2570.6 µg/L         60.91      2570.6 ppb          60.91   2.37%
   QC value within limits for S 181.975 Axial  Recovery = 102.82%
Sb 206.836†              800.8      515.65 µg/L         3.803      515.65 ppb          3.803   0.74%
   QC value within limits for Sb 206.836  Recovery = 103.13%
Se 196.026†             1572.3        2290 µg/L          15.1        2290 ppb           15.1   0.66%
   QC value within limits for Se 196.026  Recovery = 91.65%
SiO2†                  55631.6       10509 µg/L          20.0       10509 ppb           20.0   0.19%
   QC value within limits for SiO2  Recovery = 98.26%
Si 251.611†           164216.8      4952.4 µg/L          9.16      4952.4 ppb          9.16   0.19%
   QC value within limits for Si 251.611  Recovery = 99.05%
Sn 189.927†             1088.7      483.98 µg/L         5.074      483.98 ppb          5.074   1.05%
   QC value within limits for Sn 189.927  Recovery = 96.80%
Sr 421.552†            43111.9      504.26 µg/L         2.806      504.26 ppb          2.806   0.56%
   QC value within limits for Sr 421.552  Recovery = 100.85%
Ti 334.940†           250777.5      506.40 µg/L         1.032      506.40 ppb          1.032   0.20%
   QC value within limits for Ti 334.940  Recovery = 101.28%
Tl 190.801†              342.5      465.63 µg/L        10.795      465.63 ppb         10.795   2.32%
   QC value within limits for Tl 190.801  Recovery = 93.13%
U 367.007†              5222.9      577.57 µg/L        17.745      577.57 ppb         17.745   3.07%
   QC value within limits for U 367.007  Recovery = 115.51%
V 292.402†             65169.3      510.53 µg/L         1.402      510.53 ppb          1.402   0.27%
   QC value within limits for V 292.402  Recovery = 102.11%
Zn 213.857†            37607.8      468.48 µg/L         1.255      468.48 ppb          1.255   0.27%
   QC value within limits for Zn 213.857  Recovery = 93.70%
All analyte(s) passed QC.
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Sequence No.: 11 **Autosampler Location: 105**
Sample ID: LR1 **Date Collected: 11/7/2013 11:31:57**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20123.3	20123.3	93.7	%			11:32:29
1	Al 396.153Radial†	273143.2	291756.9	521880	µg/L	521880	ppb	11:32:27
1	Ca 317.933Radial†	628441.0	670978.4	454340	µg/L	454340	ppb	11:32:27
1	Fe 238.204 Radial†	128909.8	137618.6	466840	µg/L	466840	ppb	11:32:29
1	K 766.490 Radial†	381.8	-272.3	-644.60	µg/L	-644.60	ppb	11:32:29
1	Mg 279.077 IEC†	65232.8	69652.0	489030	µg/L	489030	ppb	11:32:29
1	Na 589.592 Radial†	525236.3	560886.0	540020	µg/L	540020	ppb	11:32:27
1	Sr 421.552†	700.8	710.3	4.8289	µg/L	4.8289	ppb	11:32:29
1	Sc 361.383	1093882.6	1093882.6	91.410	%			11:32:55
1	Y 371.029	625349.5	625349.5	88.505	%			11:32:55
1	Ag 328.068†	5514.8	5386.9	6.5429	µg/L	6.5429	ppb	11:32:55
1	As 188.979†	-43.4	-44.8	-21.978	µg/L	-21.978	ppb	11:33:15
1	B 249.677†	123635.1	134998.4	-72.303	µg/L	-72.303	ppb	11:32:55
1	Ba 233.527†	512.9	651.5	3.8575	µg/L	3.8575	ppb	11:33:15
1	Be 313.107†	-14530.7	-9106.5	-4.0266	µg/L	-4.0266	ppb	11:32:55
1	Cd 226.502†	3672.6	4107.5	5.2983	µg/L	5.2983	ppb	11:33:15
1	Co 228.616†	108.8	224.6	2.8240	µg/L	2.8240	ppb	11:33:15
1	Cr 267.716†	740.6	688.9	13.958	µg/L	13.958	ppb	11:33:15
1	Cu 324.752†	-7930.4	-12698.1	-13.256	µg/L	-13.256	ppb	11:32:55
1	Mn 257.610†	510.8	360.8	-6.5279	µg/L	-6.5279	ppb	11:32:55
1	Mo 202.031†	-243.1	-256.5	-5.6048	µg/L	-5.6048	ppb	11:33:15
1	Ni 231.604†	187.1	242.4	5.0050	µg/L	5.0050	ppb	11:33:15
1	P 214.914†	409.8	516.4	19.291	µg/L	19.291	ppb	11:33:15
1	Pb 220.353†	176.9	85.1	16.427	µg/L	16.427	ppb	11:33:15
1	S 181.975 Axial†	13802.1	15074.4	51663	µg/L	51663	ppb	11:33:15
1	Sb 206.836†	17.4	12.5	21.680	µg/L	21.680	ppb	11:33:15
1	Se 196.026†	-121.1	-149.3	-45.3	µg/L	-45.3	ppb	11:33:15
1	SiO2†	1720.6	-10.1	-1.6544	µg/L	-1.6544	ppb	11:33:15
1	Si 251.611†	-170.6	-541.3	37.793	µg/L	37.793	ppb	11:33:15
1	Sn 189.927†	-108.8	-122.9	-7.6209	µg/L	-7.6209	ppb	11:33:15
1	Ti 334.940†	-3946.3	-5837.8	1.1711	µg/L	1.1711	ppb	11:32:55
1	Tl 190.801†	-17.3	-3.1	-8.2420	µg/L	-8.2420	ppb	11:33:15
1	U 367.007†	51510.5	56031.0	15059	µg/L	15059	ppb	11:32:55
1	V 292.402†	-8923.6	-10107.8	7.5663	µg/L	7.5663	ppb	11:33:15
1	Zn 213.857†	5105.6	5060.7	11.472	µg/L	11.472	ppb	11:33:15
2	Sc RADIAL	20327.1	20327.1	94.6	%			11:32:33
2	Al 396.153Radial†	283735.8	300029.9	536680	µg/L	536680	ppb	11:32:31
2	Ca 317.933Radial†	653353.5	690585.2	467620	µg/L	467620	ppb	11:32:31
2	Fe 238.204 Radial†	131169.5	138627.2	470260	µg/L	470260	ppb	11:32:33
2	K 766.490 Radial†	617.3	-27.4	-331.01	µg/L	-331.01	ppb	11:32:33
2	Mg 279.077 IEC†	66306.0	70088.1	492090	µg/L	492090	ppb	11:32:33
2	Na 589.592 Radial†	543528.8	574599.7	553220	µg/L	553220	ppb	11:32:31
2	Sr 421.552†	648.4	647.5	3.9853	µg/L	3.9853	ppb	11:32:33
2	Sc 361.383	1088692.5	1088692.5	90.976	%			11:33:17
2	Y 371.029	622212.1	622212.1	88.061	%			11:33:17
2	Ag 328.068†	5541.8	5445.3	6.3395	µg/L	6.3395	ppb	11:33:17
2	As 188.979†	-45.4	-47.2	-26.947	µg/L	-26.947	ppb	11:33:38
2	B 249.677†	122853.1	134783.6	-88.002	µg/L	-88.002	ppb	11:33:17
2	Ba 233.527†	509.7	650.6	3.8025	µg/L	3.8025	ppb	11:33:38
2	Be 313.107†	-14788.3	-9465.4	-4.1854	µg/L	-4.1854	ppb	11:33:17
2	Cd 226.502†	3692.5	4148.6	5.5134	µg/L	5.5134	ppb	11:33:38
2	Co 228.616†	137.8	257.1	3.7861	µg/L	3.7861	ppb	11:33:38
2	Cr 267.716†	720.0	670.2	13.522	µg/L	13.522	ppb	11:33:38
2	Cu 324.752†	-7794.9	-12590.4	-11.877	µg/L	-11.877	ppb	11:33:17
2	Mn 257.610†	584.9	444.9	-6.3082	µg/L	-6.3082	ppb	11:33:17
2	Mo 202.031†	-226.7	-239.8	-3.4239	µg/L	-3.4239	ppb	11:33:38
2	Ni 231.604†	163.9	217.9	4.2299	µg/L	4.2299	ppb	11:33:38
2	P 214.914†	390.7	497.6	-1.4357	µg/L	-1.4357	ppb	11:33:38
2	Pb 220.353†	228.7	143.0	29.895	µg/L	29.895	ppb	11:33:38

2	S 181.975 Axial†	13807.5	15152.3	51927	µg/L	51927	ppb	11:33:38
2	Sb 206.836†	10.9	5.5	17.352	µg/L	17.352	ppb	11:33:38
2	Se 196.026†	-117.4	-145.9	-39.2	µg/L	-39.2	ppb	11:33:38
2	SiO2†	1731.5	10.8	2.2902	µg/L	2.2902	ppb	11:33:38
2	Si 251.611†	-178.8	-551.2	37.862	µg/L	37.862	ppb	11:33:38
2	Sn 189.927†	-99.0	-112.7	-2.2856	µg/L	-2.2856	ppb	11:33:38
2	Ti 334.940†	-3761.0	-5654.7	2.0743	µg/L	2.0743	ppb	11:33:17
2	Tl 190.801†	-20.4	-6.6	-13.306	µg/L	-13.306	ppb	11:33:38
2	U 367.007†	52050.0	56892.6	15308	µg/L	15308	ppb	11:33:17
2	V 292.402†	-9015.1	-10255.0	7.1976	µg/L	7.1976	ppb	11:33:38
2	Zn 213.857†	5147.7	5133.6	12.046	µg/L	12.046	ppb	11:33:38
3	Sc RADIAL	19963.7	19963.7	92.9	%			11:32:37
3	Al 396.153Radial†	287859.2	309928.3	554380	µg/L	554380	ppb	11:32:35
3	Ca 317.933Radial†	664829.7	715510.6	484500	µg/L	484500	ppb	11:32:35
3	Fe 238.204 Radial†	129163.2	138992.0	471500	µg/L	471500	ppb	11:32:37
3	K 766.490 Radial†	539.4	-99.4	-433.97	µg/L	-433.97	ppb	11:32:37
3	Mg 279.077 IEC†	65179.6	70151.7	492540	µg/L	492540	ppb	11:32:37
3	Na 589.592 Radial†	552585.1	594807.0	572670	µg/L	572670	ppb	11:32:35
3	Sr 421.552†	665.2	678.0	4.2138	µg/L	4.2138	ppb	11:32:37
3	Sc 361.383	1088324.2	1088324.2	90.945	%			11:33:40
3	Y 371.029	621476.0	621476.0	87.956	%			11:33:40
3	Ag 328.068†	5560.0	5467.5	6.0077	µg/L	6.0077	ppb	11:33:40
3	As 188.979†	-46.1	-48.0	-28.576	µg/L	-28.576	ppb	11:34:00
3	B 249.677†	123901.2	135981.8	-77.659	µg/L	-77.659	ppb	11:33:40
3	Ba 233.527†	500.7	641.0	3.6462	µg/L	3.6462	ppb	11:34:00
3	Be 313.107†	-14621.3	-9287.3	-4.1066	µg/L	-4.1066	ppb	11:33:40
3	Cd 226.502†	3701.3	4159.7	5.5310	µg/L	5.5310	ppb	11:34:00
3	Co 228.616†	141.3	261.0	3.8933	µg/L	3.8933	ppb	11:34:00
3	Cr 267.716†	733.0	684.7	13.813	µg/L	13.813	ppb	11:34:00
3	Cu 324.752†	-7848.0	-12651.7	-12.112	µg/L	-12.112	ppb	11:33:40
3	Mn 257.610†	667.9	536.3	-6.0182	µg/L	-6.0182	ppb	11:33:40
3	Mo 202.031†	-241.0	-255.6	-5.2900	µg/L	-5.2900	ppb	11:34:00
3	Ni 231.604†	174.5	229.6	4.5846	µg/L	4.5846	ppb	11:34:00
3	P 214.914†	408.0	516.8	20.335	µg/L	20.335	ppb	11:34:00
3	Pb 220.353†	213.4	126.2	26.760	µg/L	26.760	ppb	11:34:00
3	S 181.975 Axial†	13924.0	15285.6	52381	µg/L	52381	ppb	11:34:00
3	Sb 206.836†	21.2	16.7	24.526	µg/L	24.526	ppb	11:34:00
3	Se 196.026†	-114.8	-143.0	-34.7	µg/L	-34.7	ppb	11:34:00
3	SiO2†	1701.3	-21.8	-3.8504	µg/L	-3.8504	ppb	11:34:00
3	Si 251.611†	-214.3	-590.3	36.855	µg/L	36.855	ppb	11:34:00
3	Sn 189.927†	-100.2	-114.1	-1.3125	µg/L	-1.3125	ppb	11:34:00
3	Ti 334.940†	-3812.4	-5712.7	2.8330	µg/L	2.8330	ppb	11:33:40
3	Tl 190.801†	-5.3	10.0	9.5376	µg/L	9.5376	ppb	11:34:00
3	U 367.007†	52155.4	57027.9	15341	µg/L	15341	ppb	11:33:40
3	V 292.402†	-9054.4	-10301.5	7.0503	µg/L	7.0503	ppb	11:34:00
3	Zn 213.857†	5165.9	5155.6	12.204	µg/L	12.204	ppb	11:34:00

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1090299.8	91.110	%	0.2597				0.29%
Sc RADIAL	20138.0	93.7	%	0.85				0.90%
Y 371.029	623012.5	88.174	%	0.2911				0.33%
Ag 328.068†	5433.2	6.2967	µg/L	0.27018	6.2967	ppb	0.27018	4.29%
Al 396.153Radial†	300571.7	537650	µg/L	16273.5	537650	ppb	16273.5	3.03%
QC value within limits for Al 396.153Radial Recovery = 107.53%								
As 188.979†	-46.7	-25.834	µg/L	3.4371	-25.834	ppb	3.4371	13.30%
B 249.677†	135254.6	-79.321	µg/L	7.9807	-79.321	ppb	7.9807	10.06%
Ba 233.527†	647.7	3.7687	µg/L	0.10960	3.7687	ppb	0.10960	2.91%
Be 313.107†	-9286.4	-4.1062	µg/L	0.07936	-4.1062	ppb	0.07936	1.93%
Ca 317.933Radial†	692358.1	468820	µg/L	15116.4	468820	ppb	15116.4	3.22%
QC value within limits for Ca 317.933Radial Recovery = 93.76%								
Cd 226.502†	4138.6	5.4476	µg/L	0.12955	5.4476	ppb	0.12955	2.38%
Co 228.616†	247.6	3.5012	µg/L	0.58885	3.5012	ppb	0.58885	16.82%
Cr 267.716†	681.3	13.765	µg/L	0.2220	13.765	ppb	0.2220	1.61%
Cu 324.752†	-12646.7	-12.415	µg/L	0.7376	-12.415	ppb	0.7376	5.94%
Fe 238.204 Radial†	138412.6	469540	µg/L	2413.3	469540	ppb	2413.3	0.51%
QC value within limits for Fe 238.204 Radial Recovery = 93.91%								
K 766.490 Radial†	-133.0	-469.86	µg/L	159.842	-469.86	ppb	159.842	34.02%
Mg 279.077 IEC†	69963.9	491220	µg/L	1909.8	491220	ppb	1909.8	0.39%

QC value within limits for Mg 279.077 IEC Recovery = 98.24%

Mn 257.610†	447.3	-6.2848	µg/L	0.25561	-6.2848	ppb	0.25561	4.07%
Mo 202.031†	-250.6	-4.7729	µg/L	1.17885	-4.7729	ppb	1.17885	24.70%
Na 589.592 Radial†	576764.2	555300	µg/L	16428.9	555300	ppb	16428.9	2.96%

QC value greater than the upper limit for Na 589.592 Radial Recovery = 111.06%

Ni 231.604†	230.0	4.6065	µg/L	0.38802	4.6065	ppb	0.38802	8.42%
P 214.914†	510.2	12.730	µg/L	12.2790	12.730	ppb	12.2790	96.46%
Pb 220.353†	118.1	24.361	µg/L	7.0470	24.361	ppb	7.0470	28.93%
S 181.975 Axial†	15170.8	51990	µg/L	363.5	51990	ppb	363.5	0.70%

QC value within limits for S 181.975 Axial Recovery = 103.98%

Sb 206.836†	11.6	21.186	µg/L	3.6124	21.186	ppb	3.6124	17.05%
Se 196.026†	-146.1	-39.8	µg/L	5.31	-39.8	ppb	5.31	13.35%
SiO2†	-7.0	-1.0715	µg/L	3.11152	-1.0715	ppb	3.11152	290.38%
Si 251.611†	-560.9	37.503	µg/L	0.5626	37.503	ppb	0.5626	1.50%
Sn 189.927†	-116.6	-3.7397	µg/L	3.39626	-3.7397	ppb	3.39626	90.82%
Sr 421.552†	678.6	4.3427	µg/L	0.43633	4.3427	ppb	0.43633	10.05%
Ti 334.940†	-5735.1	2.0261	µg/L	0.83199	2.0261	ppb	0.83199	41.06%
Tl 190.801†	0.1	-4.0034	µg/L	11.99703	-4.0034	ppb	11.99703	299.67%
U 367.007†	56650.5	15236	µg/L	154.6	15236	ppb	154.6	1.01%

QC value within limits for U 367.007 Recovery = 101.57%

V 292.402†	-10221.4	7.2714	µg/L	0.26581	7.2714	ppb	0.26581	3.66%
Zn 213.857†	5116.6	11.907	µg/L	0.3848	11.907	ppb	0.3848	3.23%

QC Failed. Continue with analysis.

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Sequence No.: 12 **Autosampler Location: 108**
Sample ID: LR2 **Date Collected: 11/7/2013 11:34:08**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21590.4	21590.4	100	%			11:34:41
1	Al 396.153Radial†	153.2	248.7	333.26	µg/L	333.26	ppb	11:34:41
1	Ca 317.933Radial†	164.2	96.4	65.353	µg/L	65.353	ppb	11:35:01
1	Fe 238.204 Radial†	-48.0	-78.3	-584.81	µg/L	-584.81	ppb	11:35:01
1	K 766.490 Radial†	225732.5	223976.7	292850	µg/L	292850	ppb	11:34:39
1	Mg 279.077 IEC†	-12.1	-15.2	-107.04	µg/L	-107.04	ppb	11:35:01
1	Na 589.592 Radial†	180.0	221.1	212.83	µg/L	212.83	ppb	11:34:41
1	Sr 421.552†	845774.6	841705.9	9917.9	µg/L	9917.9	ppb	11:34:39
1	Sc 361.383	1155914.1	1155914.1	96.593	%			11:36:12
1	Y 371.029	662914.1	662914.1	93.821	%			11:36:12
1	Ag 328.068†	-2189.3	-2912.6	18.936	µg/L	18.936	ppb	11:36:14
1	As 188.979†	4463.6	4623.7	10786	µg/L	10786	ppb	11:36:34
1	B 249.677†	393477.1	407098.5	5005.5	µg/L	5005.5	ppb	11:36:14
1	Ba 233.527†	1033388.7	1069923.5	15639	µg/L	15639	ppb	11:36:12
1	Be 313.107†	6788049.2	7034231.8	3110.4	µg/L	3110.4	ppb	11:36:09
1	Cd 226.502†	623426.6	645502.7	10436	µg/L	10436	ppb	11:36:12
1	Co 228.616†	325253.6	336829.8	10287	µg/L	10287	ppb	11:36:14
1	Cr 267.716†	1329519.2	1376285.9	26110	µg/L	26110	ppb	11:36:12
1	Cu 324.752†	3173866.8	3281776.6	23097	µg/L	23097	ppb	11:36:12
1	Mn 257.610†	3213650.0	3326787.2	10130	µg/L	10130	ppb	11:36:12
1	Mo 202.031†	84699.1	87695.6	10555	µg/L	10555	ppb	11:36:14
1	Ni 231.604†	329225.2	340873.6	10496	µg/L	10496	ppb	11:36:14
1	P 214.914†	14449.6	15027.4	15062	µg/L	15062	ppb	11:36:14
1	Pb 220.353†	114223.5	118143.4	26852	µg/L	26852	ppb	11:36:14
1	S 181.975 Axial†	65.4	42.9	111.68	µg/L	111.68	ppb	11:36:34
1	Sb 206.836†	16540.4	17117.2	10717	µg/L	10717	ppb	11:36:14
1	Se 196.026†	7098.1	7331.6	10400	µg/L	10400	ppb	11:36:34
1	SiO2†	523776.0	540355.5	102500	µg/L	102500	ppb	11:36:12
1	Si 251.611†	1530148.8	1583757.6	47475	µg/L	47475	ppb	11:36:12
1	Sn 189.927†	26113.1	27030.1	10932	µg/L	10932	ppb	11:36:14
1	Ti 334.940†	5302369.7	5487846.7	10596	µg/L	10596	ppb	11:36:09
1	Tl 190.801†	7277.2	7549.7	10347	µg/L	10347	ppb	11:36:34
1	U 367.007†	386.3	79.7	-25.181	µg/L	-25.181	ppb	11:36:14
1	V 292.402†	1422415.0	1472233.5	10896	µg/L	10896	ppb	11:36:12
1	Zn 213.857†	1137789.9	1177391.5	15547	µg/L	15547	ppb	11:36:12
2	Sc RADIAL	21270.2	21270.2	99.0	%			11:35:06
2	Al 396.153Radial†	50.3	147.0	154.87	µg/L	154.87	ppb	11:35:06
2	Ca 317.933Radial†	140.8	75.2	50.998	µg/L	50.998	ppb	11:35:26
2	Fe 238.204 Radial†	-56.7	-87.8	-606.09	µg/L	-606.09	ppb	11:35:26
2	K 766.490 Radial†	225843.3	227471.4	297400	µg/L	297400	ppb	11:35:03
2	Mg 279.077 IEC†	-18.3	-21.7	-152.30	µg/L	-152.30	ppb	11:35:26
2	Na 589.592 Radial†	38.9	81.1	78.109	µg/L	78.109	ppb	11:35:06
2	Sr 421.552†	850205.9	858856.8	10120	µg/L	10120	ppb	11:35:03
2	Sc 361.383	1190798.4	1190798.4	99.509	%			11:36:39
2	Y 371.029	682577.1	682577.1	96.604	%			11:36:39
2	Ag 328.068†	-2230.2	-2887.3	17.622	µg/L	17.622	ppb	11:36:41
2	As 188.979†	4425.6	4450.2	10381	µg/L	10381	ppb	11:37:01
2	B 249.677†	392405.2	394088.0	4840.0	µg/L	4840.0	ppb	11:36:41
2	Ba 233.527†	1022352.3	1027491.9	15019	µg/L	15019	ppb	11:36:39
2	Be 313.107†	6730463.2	6770493.4	2993.7	µg/L	2993.7	ppb	11:36:37
2	Cd 226.502†	616351.8	619485.7	10016	µg/L	10016	ppb	11:36:39
2	Co 228.616†	323654.8	325358.9	9937.0	µg/L	9937.0	ppb	11:36:41
2	Cr 267.716†	1315975.5	1322353.6	25087	µg/L	25087	ppb	11:36:39
2	Cu 324.752†	3141326.2	3152818.3	22189	µg/L	22189	ppb	11:36:39
2	Mn 257.610†	3180184.0	3195692.3	9730.6	µg/L	9730.6	ppb	11:36:39
2	Mo 202.031†	84517.8	84944.6	10224	µg/L	10224	ppb	11:36:41
2	Ni 231.604†	328167.2	329825.7	10156	µg/L	10156	ppb	11:36:41
2	P 214.914†	14381.4	14520.6	14555	µg/L	14555	ppb	11:36:41
2	Pb 220.353†	114216.1	114671.8	26063	µg/L	26063	ppb	11:36:41

2	S 181.975 Axial†	57.5	33.1	78.822	µg/L	78.822	ppb	11:37:01
2	Sb 206.836†	16581.8	16657.2	10432	µg/L	10432	ppb	11:36:41
2	Se 196.026†	6981.2	6998.8	9890	µg/L	9890	ppb	11:37:01
2	SiO2†	518620.4	519289.3	98504	µg/L	98504	ppb	11:36:39
2	Si 251.611†	1515241.8	1522370.7	45633	µg/L	45633	ppb	11:36:39
2	Sn 189.927†	26142.4	26267.6	10624	µg/L	10624	ppb	11:36:41
2	Ti 334.940†	5260293.8	5284752.7	10204	µg/L	10204	ppb	11:36:37
2	Tl 190.801†	7192.3	7243.6	9926.7	µg/L	9926.7	ppb	11:37:01
2	U 367.007†	374.7	56.4	-30.447	µg/L	-30.447	ppb	11:36:41
2	V 292.402†	1407673.9	1414280.5	10468	µg/L	10468	ppb	11:36:39
2	Zn 213.857†	1125893.8	1130929.8	14933	µg/L	14933	ppb	11:36:39
3	Sc RADIAL	20549.2	20549.2	95.6	%			11:35:30
3	Al 396.153Radial†	12.5	109.3	88.388	µg/L	88.388	ppb	11:35:30
3	Ca 317.933Radial†	130.7	69.6	47.183	µg/L	47.183	ppb	11:35:50
3	Fe 238.204 Radial†	-54.6	-87.7	-603.53	µg/L	-603.53	ppb	11:35:50
3	K 766.490 Radial†	226377.3	236034.5	308590	µg/L	308590	ppb	11:35:28
3	Mg 279.077 IEC†	-9.8	-13.5	-94.803	µg/L	-94.803	ppb	11:35:50
3	Na 589.592 Radial†	18.7	61.4	59.121	µg/L	59.121	ppb	11:35:30
3	Sr 421.552†	850677.6	889484.7	10481	µg/L	10481	ppb	11:35:28
3	Sc 361.383	1204226.8	1204226.8	100.63	%			11:37:07
3	Y 371.029	690743.5	690743.5	97.760	%			11:37:07
3	Ag 328.068†	-2314.4	-2946.0	17.127	µg/L	17.127	ppb	11:37:09
3	As 188.979†	4627.6	4601.3	10724	µg/L	10724	ppb	11:37:29
3	B 249.677†	394916.9	392186.6	4811.4	µg/L	4811.4	ppb	11:37:09
3	Ba 233.527†	1032789.1	1026406.7	15003	µg/L	15003	ppb	11:37:07
3	Be 313.107†	6776430.1	6740750.0	2980.6	µg/L	2980.6	ppb	11:37:04
3	Cd 226.502†	623594.7	619776.3	10020	µg/L	10020	ppb	11:37:07
3	Co 228.616†	325131.5	323199.4	9871.0	µg/L	9871.0	ppb	11:37:09
3	Cr 267.716†	1329331.3	1320878.7	25059	µg/L	25059	ppb	11:37:07
3	Cu 324.752†	3172012.3	3148110.0	22156	µg/L	22156	ppb	11:37:07
3	Mn 257.610†	3213037.4	3192702.3	9721.5	µg/L	9721.5	ppb	11:37:07
3	Mo 202.031†	84814.2	84292.1	10145	µg/L	10145	ppb	11:37:09
3	Ni 231.604†	329979.0	327948.6	10098	µg/L	10098	ppb	11:37:09
3	P 214.914†	14479.9	14457.2	14491	µg/L	14491	ppb	11:37:09
3	Pb 220.353†	114466.0	113640.2	25829	µg/L	25829	ppb	11:37:09
3	S 181.975 Axial†	68.3	43.1	114.05	µg/L	114.05	ppb	11:37:29
3	Sb 206.836†	16584.4	16473.9	10315	µg/L	10315	ppb	11:37:09
3	Se 196.026†	7285.4	7222.9	10200	µg/L	10200	ppb	11:37:29
3	SiO2†	524019.0	518842.4	98419	µg/L	98419	ppb	11:37:07
3	Si 251.611†	1529800.3	1519858.0	45559	µg/L	45559	ppb	11:37:07
3	Sn 189.927†	26026.5	25859.4	10458	µg/L	10458	ppb	11:37:09
3	Ti 334.940†	5294675.0	5259971.0	10156	µg/L	10156	ppb	11:37:04
3	Tl 190.801†	7545.7	7514.2	10302	µg/L	10302	ppb	11:37:29
3	U 367.007†	303.8	-18.3	-53.568	µg/L	-53.568	ppb	11:37:09
3	V 292.402†	1421350.8	1412097.1	10451	µg/L	10451	ppb	11:37:07
3	Zn 213.857†	1136676.5	1129028.0	14908	µg/L	14908	ppb	11:37:07

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1183646.4	98.911	%	2.0839				2.11%
Sc RADIAL	21136.6	98.4	%	2.48				2.52%
Y 371.029	678744.9	96.062	%	2.0246				2.11%
Ag 328.068†	-2915.3	17.895	µg/L	0.9348	17.895	ppb	0.9348	5.22%
Al 396.153Radial†	168.4	192.17	µg/L	126.628	192.17	ppb	126.628	65.89%
As 188.979†	4558.4	10630	µg/L	218.1	10630	ppb	218.1	2.05%
QC value within limits for As 188.979 Recovery = 106.30%								
B 249.677†	397791.1	4885.6	µg/L	104.79	4885.6	ppb	104.79	2.14%
QC value within limits for B 249.677 Recovery = 97.71%								
Ba 233.527†	1041274.0	15221	µg/L	362.8	15221	ppb	362.8	2.38%
QC value within limits for Ba 233.527 Recovery = 101.47%								
Be 313.107†	6848491.7	3028.2	µg/L	71.43	3028.2	ppb	71.43	2.36%
QC value within limits for Be 313.107 Recovery = 100.94%								
Ca 317.933Radial†	80.4	54.511	µg/L	9.5807	54.511	ppb	9.5807	17.58%
Cd 226.502†	628254.9	10157	µg/L	241.5	10157	ppb	241.5	2.38%
QC value within limits for Cd 226.502 Recovery = 101.57%								
Co 228.616†	328462.7	10032	µg/L	223.7	10032	ppb	223.7	2.23%
QC value within limits for Co 228.616 Recovery = 100.32%								
Cr 267.716†	1339839.4	25419	µg/L	599.0	25419	ppb	599.0	2.36%
QC value within limits for Cr 267.716 Recovery = 101.68%								

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Cu 324.752†          3194234.9       22481 µg/L         533.8       22481 ppb          533.8   2.37%
   QC value greater than the upper limit for Cu 324.752  Recovery = 112.40%
Fe 238.204 Radial†       -84.6     -598.14 µg/L        11.619     -598.14 ppb         11.619   1.94%
K 766.490 Radial†     229160.9      299610 µg/L        8098.3      299610 ppb         8098.3   2.70%
   QC value within limits for K 766.490 Radial  Recovery = 99.87%
Mg 279.077 IEC†          -16.8     -118.05 µg/L        30.287     -118.05 ppb         30.287  25.66%
Mn 257.610†          3238393.9      9860.6 µg/L        233.13      9860.6 ppb         233.13   2.36%
   QC value within limits for Mn 257.610  Recovery = 98.61%
Mo 202.031†            85644.1       10308 µg/L         217.4       10308 ppb          217.4   2.11%
   QC value within limits for Mo 202.031  Recovery = 103.08%
Na 589.592 Radial†       121.2      116.69 µg/L        83.801      116.69 ppb         83.801  71.82%
Ni 231.604†           332882.7       10250 µg/L         215.0       10250 ppb          215.0   2.10%
   QC value within limits for Ni 231.604  Recovery = 102.50%
P 214.914†             14668.4       14703 µg/L         312.7       14703 ppb          312.7   2.13%
   QC value within limits for P 214.914  Recovery = 98.02%
Pb 220.353†           115485.1       26248 µg/L         536.2       26248 ppb          536.2   2.04%
   QC value within limits for Pb 220.353  Recovery = 104.99%
S 181.975 Axial†          39.7      101.52 µg/L        19.691      101.52 ppb         19.691  19.40%
Sb 206.836†            16749.4       10488 µg/L         206.9       10488 ppb          206.9   1.97%
   QC value within limits for Sb 206.836  Recovery = 104.88%
Se 196.026†             7184.4       10200 µg/L         239.9       10200 ppb          239.9   2.36%
   QC value within limits for Se 196.026  Recovery = 101.51%
SiO2†                 526162.4       99808 µg/L        2332.1       99808 ppb         2332.1   2.34%
   QC value within limits for SiO2  Recovery = 93.28%
Si 251.611†          1541995.4       46222 µg/L        1085.1       46222 ppb         1085.1   2.35%
   QC value within limits for Si 251.611  Recovery = 92.44%
Sn 189.927†            26385.7       10671 µg/L         240.3       10671 ppb          240.3   2.25%
   QC value within limits for Sn 189.927  Recovery = 106.71%
Sr 421.552†           863349.1       10173 µg/L         285.2       10173 ppb          285.2   2.80%
   QC value within limits for Sr 421.552  Recovery = 101.73%
Ti 334.940†          5344190.2       10318 µg/L         241.4       10318 ppb          241.4   2.34%
   QC value within limits for Ti 334.940  Recovery = 103.18%
Tl 190.801†             7435.8       10192 µg/L         230.7       10192 ppb          230.7   2.26%
   QC value within limits for Tl 190.801  Recovery = 101.92%
U 367.007†                39.3     -36.398 µg/L       15.1003     -36.398 ppb        15.1003  41.49%
V 292.402†           1432870.4       10605 µg/L         252.1       10605 ppb          252.1   2.38%
   QC value within limits for V 292.402  Recovery = 106.05%
Zn 213.857†          1145783.1       15129 µg/L         361.9       15129 ppb          361.9   2.39%
   QC value within limits for Zn 213.857  Recovery = 100.86%
QC Failed.  Continue with analysis.
```

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Sequence No.: 13 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 11:37:37**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21944.8	21944.8	102	%			11:38:09
1	Al 396.153Radial†	3094.8	3126.6	5587.1	µg/L	5587.1	ppb	11:38:29
1	Ca 317.933Radial†	7719.9	7492.1	5073.1	µg/L	5073.1	ppb	11:38:29
1	Fe 238.204 Radial†	1586.3	1522.7	5150.2	µg/L	5150.2	ppb	11:38:29
1	K 766.490 Radial†	4723.3	3944.9	5158.9	µg/L	5158.9	ppb	11:38:09
1	Mg 279.077 IEC†	765.7	746.5	5241.1	µg/L	5241.1	ppb	11:38:29
1	Na 589.592 Radial†	12350.0	12134.5	11683	µg/L	11683	ppb	11:38:09
1	Sr 421.552†	43183.5	42245.8	497.75	µg/L	497.75	ppb	11:38:09
1	Sc 361.383	1174416.7	1174416.7	98.140	%			11:39:31
1	Y 371.029	680801.6	680801.6	96.353	%			11:39:31
1	Ag 328.068†	71606.9	72318.2	512.69	µg/L	512.69	ppb	11:39:33
1	As 188.979†	223.1	230.0	530.94	µg/L	530.94	ppb	11:39:53
1	B 249.677†	39542.2	40036.5	480.39	µg/L	480.39	ppb	11:39:33
1	Ba 233.527†	33018.8	33735.1	493.48	µg/L	493.48	ppb	11:39:33
1	Be 313.107†	1090726.7	1118192.8	494.44	µg/L	494.44	ppb	11:39:31
1	Cd 226.502†	29663.4	30315.5	489.45	µg/L	489.45	ppb	11:39:33
1	Co 228.616†	15832.0	16237.7	495.79	µg/L	495.79	ppb	11:39:33
1	Cr 267.716†	25656.9	26022.0	493.38	µg/L	493.38	ppb	11:39:33
1	Cu 324.752†	73882.1	71260.3	502.56	µg/L	502.56	ppb	11:39:33
1	Mn 257.610†	160661.5	163509.0	497.79	µg/L	497.79	ppb	11:39:33
1	Mo 202.031†	4311.9	4403.1	530.21	µg/L	530.21	ppb	11:39:53
1	Ni 231.604†	15745.5	16081.7	495.14	µg/L	495.14	ppb	11:39:33
1	P 214.914†	2373.5	2486.6	2529.3	µg/L	2529.3	ppb	11:39:53
1	Pb 220.353†	2359.5	2295.8	522.63	µg/L	522.63	ppb	11:39:53
1	S 181.975 Axial†	325.2	306.7	1050.9	µg/L	1050.9	ppb	11:39:53
1	Sb 206.836†	811.0	819.9	522.47	µg/L	522.47	ppb	11:39:53
1	Se 196.026†	377.1	367.4	522	µg/L	522	ppb	11:39:53
1	SiO2†	29121.5	27781.1	5253.1	µg/L	5253.1	ppb	11:39:33
1	Si 251.611†	80740.5	81916.4	2456.3	µg/L	2456.3	ppb	11:39:33
1	Sn 189.927†	1259.7	1279.6	518.00	µg/L	518.00	ppb	11:39:53
1	Ti 334.940†	254311.9	257612.1	497.66	µg/L	497.66	ppb	11:39:33
1	Tl 190.801†	351.3	373.8	512.71	µg/L	512.71	ppb	11:39:53
1	U 367.007†	1916.6	1632.8	481.02	µg/L	481.02	ppb	11:39:33
1	V 292.402†	66858.3	67780.0	501.71	µg/L	501.71	ppb	11:39:33
1	Zn 213.857†	37298.6	37481.0	493.67	µg/L	493.67	ppb	11:39:33
2	Sc RADIAL	22135.1	22135.1	103	%			11:38:31
2	Al 396.153Radial†	3043.1	3050.3	5451.1	µg/L	5451.1	ppb	11:38:51
2	Ca 317.933Radial†	7665.5	7374.3	4993.4	µg/L	4993.4	ppb	11:38:51
2	Fe 238.204 Radial†	1570.0	1493.5	5051.2	µg/L	5051.2	ppb	11:38:51
2	K 766.490 Radial†	4740.0	3921.3	5127.8	µg/L	5127.8	ppb	11:38:31
2	Mg 279.077 IEC†	762.8	737.3	5176.3	µg/L	5176.3	ppb	11:38:51
2	Na 589.592 Radial†	12582.8	12256.6	11801	µg/L	11801	ppb	11:38:31
2	Sr 421.552†	44522.1	43181.7	508.78	µg/L	508.78	ppb	11:38:31
2	Sc 361.383	1237612.2	1237612.2	103.42	%			11:39:55
2	Y 371.029	716835.5	716835.5	101.45	%			11:39:55
2	Ag 328.068†	74848.3	71726.6	508.50	µg/L	508.50	ppb	11:39:57
2	As 188.979†	217.8	213.3	492.72	µg/L	492.72	ppb	11:40:17
2	B 249.677†	41229.6	39610.7	475.46	µg/L	475.46	ppb	11:39:57
2	Ba 233.527†	34938.8	33873.6	495.50	µg/L	495.50	ppb	11:39:57
2	Be 313.107†	1156581.4	1125118.4	497.50	µg/L	497.50	ppb	11:39:55
2	Cd 226.502†	31345.4	30398.5	490.80	µg/L	490.80	ppb	11:39:57
2	Co 228.616†	16647.4	16202.4	494.69	µg/L	494.69	ppb	11:39:57
2	Cr 267.716†	27196.4	26175.7	496.31	µg/L	496.31	ppb	11:39:57
2	Cu 324.752†	77140.3	70566.6	497.66	µg/L	497.66	ppb	11:39:57
2	Mn 257.610†	169375.3	163575.4	497.99	µg/L	497.99	ppb	11:39:57
2	Mo 202.031†	4271.9	4140.0	498.55	µg/L	498.55	ppb	11:40:17
2	Ni 231.604†	16680.6	16166.6	497.76	µg/L	497.76	ppb	11:39:57
2	P 214.914†	2366.2	2356.0	2396.1	µg/L	2396.1	ppb	11:40:17
2	Pb 220.353†	2351.4	2165.2	492.91	µg/L	492.91	ppb	11:40:17

2	S 181.975 Axial†	323.4	288.0	986.64 µg/L	986.64 ppb	11:40:17
2	Sb 206.836†	800.9	767.9	489.07 µg/L	489.07 ppb	11:40:17
2	Se 196.026†	369.9	340.8	484 µg/L	484 ppb	11:40:17
2	SiO2†	30611.7	27706.8	5239.2 µg/L	5239.2 ppb	11:39:57
2	Si 251.611†	84757.3	81599.4	2447.2 µg/L	2447.2 ppb	11:39:57
2	Sn 189.927†	1242.4	1197.4	484.72 µg/L	484.72 ppb	11:40:17
2	Ti 334.940†	266476.3	256142.2	494.82 µg/L	494.82 ppb	11:39:57
2	Tl 190.801†	351.0	355.2	487.00 µg/L	487.00 ppb	11:40:17
2	U 367.007†	1930.8	1546.8	454.64 µg/L	454.64 ppb	11:39:57
2	V 292.402†	70186.6	67519.6	499.41 µg/L	499.41 ppb	11:39:57
2	Zn 213.857†	39100.6	37282.7	491.03 µg/L	491.03 ppb	11:39:57
3	Sc RADIAL	22385.7	22385.7	104 %		11:38:53
3	Al 396.153Radial†	3038.7	3013.1	5384.4 µg/L	5384.4 ppb	11:39:13
3	Ca 317.933Radial†	7686.3	7311.0	4950.5 µg/L	4950.5 ppb	11:39:13
3	Fe 238.204 Radial†	1574.5	1480.8	5007.7 µg/L	5007.7 ppb	11:39:13
3	K 766.490 Radial†	4782.1	3910.3	5113.7 µg/L	5113.7 ppb	11:38:53
3	Mg 279.077 IEC†	760.1	726.4	5100.4 µg/L	5100.4 ppb	11:39:13
3	Na 589.592 Radial†	12634.2	12169.2	11716 µg/L	11716 ppb	11:38:53
3	Sr 421.552†	44424.8	42604.4	501.98 µg/L	501.98 ppb	11:38:53
3	Sc 361.383	1252908.2	1252908.2	104.70 %		11:40:20
3	Y 371.029	725769.5	725769.5	102.72 %		11:40:20
3	Ag 328.068†	76869.8	72773.8	515.91 µg/L	515.91 ppb	11:40:22
3	As 188.979†	224.1	216.8	500.80 µg/L	500.80 ppb	11:40:42
3	B 249.677†	42560.2	40395.0	485.45 µg/L	485.45 ppb	11:40:22
3	Ba 233.527†	35912.0	34390.7	503.07 µg/L	503.07 ppb	11:40:22
3	Be 313.107†	1170699.7	1124950.1	497.42 µg/L	497.42 ppb	11:40:20
3	Cd 226.502†	32317.9	30957.4	499.84 µg/L	499.84 ppb	11:40:22
3	Co 228.616†	17110.4	16448.1	502.19 µg/L	502.19 ppb	11:40:22
3	Cr 267.716†	27860.5	26489.0	502.23 µg/L	502.23 ppb	11:40:22
3	Cu 324.752†	79245.6	71666.8	505.41 µg/L	505.41 ppb	11:40:22
3	Mn 257.610†	174182.2	166167.1	505.89 µg/L	505.89 ppb	11:40:22
3	Mo 202.031†	4394.4	4206.6	506.56 µg/L	506.56 ppb	11:40:42
3	Ni 231.604†	17077.9	16349.2	503.38 µg/L	503.38 ppb	11:40:22
3	P 214.914†	2441.8	2400.4	2441.4 µg/L	2441.4 ppb	11:40:42
3	Pb 220.353†	2405.4	2189.0	498.32 µg/L	498.32 ppb	11:40:42
3	S 181.975 Axial†	324.1	284.9	975.90 µg/L	975.90 ppb	11:40:42
3	Sb 206.836†	826.5	782.9	498.67 µg/L	498.67 ppb	11:40:42
3	Se 196.026†	385.5	351.4	499 µg/L	499 ppb	11:40:42
3	SiO2†	31291.9	27995.2	5293.7 µg/L	5293.7 ppb	11:40:22
3	Si 251.611†	86970.6	82712.8	2480.6 µg/L	2480.6 ppb	11:40:22
3	Sn 189.927†	1288.0	1226.3	496.42 µg/L	496.42 ppb	11:40:42
3	Ti 334.940†	273971.3	260155.1	502.56 µg/L	502.56 ppb	11:40:22
3	Tl 190.801†	363.0	362.5	497.01 µg/L	497.01 ppb	11:40:42
3	U 367.007†	2068.0	1655.0	488.66 µg/L	488.66 ppb	11:40:22
3	V 292.402†	72410.2	68814.9	508.96 µg/L	508.96 ppb	11:40:22
3	Zn 213.857†	40205.9	37876.9	498.89 µg/L	498.89 ppb	11:40:22

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1221645.7	102.09	%	3.477				3.41%
Sc RADIAL	22155.2	103	%	1.0				1.00%
Y 371.029	707802.2	100.17	%	3.369				3.36%
Ag 328.068†	72272.9	512.37	µg/L	3.716	512.37	ppb	3.716	0.73%
QC value within limits for Ag 328.068 Recovery = 102.47%								
Al 396.153Radial†	3063.3	5474.2	µg/L	103.32	5474.2	ppb	103.32	1.89%
QC value within limits for Al 396.153Radial Recovery = 109.48%								
As 188.979†	220.0	508.15	µg/L	20.146	508.15	ppb	20.146	3.96%
QC value within limits for As 188.979 Recovery = 101.63%								
B 249.677†	40014.1	480.43	µg/L	4.997	480.43	ppb	4.997	1.04%
QC value within limits for B 249.677 Recovery = 96.09%								
Ba 233.527†	33999.8	497.35	µg/L	5.055	497.35	ppb	5.055	1.02%
QC value within limits for Ba 233.527 Recovery = 99.47%								
Be 313.107†	1122753.8	496.45	µg/L	1.747	496.45	ppb	1.747	0.35%
QC value within limits for Be 313.107 Recovery = 99.29%								
Ca 317.933Radial†	7392.4	5005.7	µg/L	62.24	5005.7	ppb	62.24	1.24%
QC value within limits for Ca 317.933Radial Recovery = 100.11%								
Cd 226.502†	30557.2	493.36	µg/L	5.650	493.36	ppb	5.650	1.15%
QC value within limits for Cd 226.502 Recovery = 98.67%								
Co 228.616†	16296.1	497.56	µg/L	4.052	497.56	ppb	4.052	0.81%

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   QC value within limits for Co 228.616  Recovery = 99.51%
Cr 267.716†            26228.9      497.31 µg/L         4.508      497.31 ppb          4.508   0.91%
   QC value within limits for Cr 267.716  Recovery = 99.46%
Cu 324.752†            71164.6      501.88 µg/L         3.921      501.88 ppb          3.921   0.78%
   QC value within limits for Cu 324.752  Recovery = 100.38%
Fe 238.204 Radial†      1499.0      5069.7 µg/L         73.05      5069.7 ppb          73.05   1.44%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.39%
K 766.490 Radial†       3925.5      5133.5 µg/L         23.12      5133.5 ppb          23.12   0.45%
   QC value within limits for K 766.490 Radial  Recovery = 102.67%
Mg 279.077 IEC†          736.7      5172.6 µg/L         70.46      5172.6 ppb          70.46   1.36%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.45%
Mn 257.610†           164417.2      500.56 µg/L         4.617      500.56 ppb          4.617   0.92%
   QC value within limits for Mn 257.610  Recovery = 100.11%
Mo 202.031†             4249.9      511.77 µg/L        16.463      511.77 ppb         16.463   3.22%
   QC value within limits for Mo 202.031  Recovery = 102.35%
Na 589.592 Radial†     12186.8       11733 µg/L          60.5       11733 ppb           60.5   0.52%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 117.33%
Ni 231.604†            16199.2      498.76 µg/L         4.210      498.76 ppb          4.210   0.84%
   QC value within limits for Ni 231.604  Recovery = 99.75%
P 214.914†              2414.3      2455.6 µg/L         67.73      2455.6 ppb          67.73   2.76%
   QC value within limits for P 214.914  Recovery = 98.22%
Pb 220.353†             2216.7      504.62 µg/L        15.827      504.62 ppb         15.827   3.14%
   QC value within limits for Pb 220.353  Recovery = 100.92%
S 181.975 Axial†         293.2      1004.5 µg/L         40.56      1004.5 ppb          40.56   4.04%
   QC value within limits for S 181.975 Axial  Recovery = 100.45%
Sb 206.836†              790.2      503.40 µg/L        17.194      503.40 ppb         17.194   3.42%
   QC value within limits for Sb 206.836  Recovery = 100.68%
Se 196.026†              353.2         502 µg/L          19.0         502 ppb           19.0   3.79%
   QC value within limits for Se 196.026  Recovery = 100.30%
SiO2†                  27827.7      5262.0 µg/L         28.33      5262.0 ppb          28.33   0.54%
   QC value within limits for SiO2  Recovery = 98.40%
Si 251.611†            82076.2      2461.4 µg/L         17.24      2461.4 ppb          17.24   0.70%
   QC value within limits for Si 251.611  Recovery = 98.45%
Sn 189.927†             1234.4      499.71 µg/L        16.879      499.71 ppb         16.879   3.38%
   QC value within limits for Sn 189.927  Recovery = 99.94%
Sr 421.552†            42677.3      502.83 µg/L         5.564      502.83 ppb          5.564   1.11%
   QC value within limits for Sr 421.552  Recovery = 100.57%
Ti 334.940†           257969.8      498.35 µg/L         3.913      498.35 ppb          3.913   0.79%
   QC value within limits for Ti 334.940  Recovery = 99.67%
Tl 190.801†              363.8      498.91 µg/L        12.957      498.91 ppb         12.957   2.60%
   QC value within limits for Tl 190.801  Recovery = 99.78%
U 367.007†              1611.5      474.78 µg/L        17.850      474.78 ppb         17.850   3.76%
   QC value within limits for U 367.007  Recovery = 94.96%
V 292.402†             68038.2      503.36 µg/L         4.983      503.36 ppb          4.983   0.99%
   QC value within limits for V 292.402  Recovery = 100.67%
Zn 213.857†            37546.9      494.53 µg/L         3.998      494.53 ppb          3.998   0.81%
   QC value within limits for Zn 213.857  Recovery = 98.91%
QC Failed.  Continue with analysis.
```

Sequence No.: 14 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 11:40:50**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21858.4	21858.4	102	%			11:41:37
1	Al 396.153Radial†	-84.1	13.5	24.204	µg/L	24.204	ppb	11:41:37
1	Ca 317.933Radial†	71.3	3.1	2.1312	µg/L	2.1312	ppb	11:41:57
1	Fe 238.204 Radial†	28.3	-2.7	-9.2120	µg/L	-9.2120	ppb	11:41:57
1	K 766.490 Radial†	675.2	-16.2	-21.212	µg/L	-21.212	ppb	11:41:37
1	Mg 279.077 IEC†	0.6	-2.6	-18.298	µg/L	-18.298	ppb	11:41:57
1	Na 589.592 Radial†	-52.0	-9.3	-8.9067	µg/L	-8.9067	ppb	11:41:37
1	Sr 421.552†	58.9	19.9	0.2344	µg/L	0.2344	ppb	11:41:37
1	Sc 361.383	1200880.5	1200880.5	100.35	%			11:43:35
1	Y 371.029	710329.1	710329.1	100.53	%			11:43:35
1	Ag 328.068†	645.2	-3.2	-0.0188	µg/L	-0.0188	ppb	11:43:37
1	As 188.979†	0.5	3.2	7.3084	µg/L	7.3084	ppb	11:43:57
1	B 249.677†	543.3	286.2	3.6179	µg/L	3.6179	ppb	11:43:57
1	Ba 233.527†	-100.4	-9.7	-0.1418	µg/L	-0.1418	ppb	11:43:57
1	Be 313.107†	-6623.4	189.5	0.0838	µg/L	0.0838	ppb	11:43:37
1	Cd 226.502†	-78.5	11.7	0.1894	µg/L	0.1894	ppb	11:43:57
1	Co 228.616†	-106.3	-0.3	-0.0098	µg/L	-0.0098	ppb	11:43:57
1	Cr 267.716†	133.6	11.9	0.2285	µg/L	0.2285	ppb	11:43:57
1	Cu 324.752†	3874.4	-161.5	-1.1402	µg/L	-1.1402	ppb	11:43:37
1	Mn 257.610†	244.1	45.2	0.1382	µg/L	0.1382	ppb	11:43:57
1	Mo 202.031†	-9.9	-0.5	-0.0567	µg/L	-0.0567	ppb	11:43:57
1	Ni 231.604†	-46.0	-8.1	-0.2494	µg/L	-0.2494	ppb	11:43:57
1	P 214.914†	-61.0	7.4	7.6000	µg/L	7.6000	ppb	11:43:57
1	Pb 220.353†	96.6	-12.2	-2.7670	µg/L	-2.7670	ppb	11:43:57
1	S 181.975 Axial†	17.4	-7.4	-25.290	µg/L	-25.290	ppb	11:43:57
1	Sb 206.836†	4.9	-1.6	-1.0466	µg/L	-1.0466	ppb	11:43:57
1	Se 196.026†	17.2	0.3	0.426	µg/L	0.426	ppb	11:43:57
1	SiO2†	1783.4	-115.2	-21.746	µg/L	-21.746	ppb	11:43:57
1	Si 251.611†	378.7	22.8	0.6841	µg/L	0.6841	ppb	11:43:57
1	Sn 189.927†	-2.4	-6.3	-2.5556	µg/L	-2.5556	ppb	11:43:57
1	Ti 334.940†	1477.3	-48.6	-0.0914	µg/L	-0.0914	ppb	11:43:37
1	Tl 190.801†	-11.6	4.3	5.9187	µg/L	5.9187	ppb	11:43:57
1	U 367.007†	306.2	-15.0	-4.6455	µg/L	-4.6455	ppb	11:43:37
1	V 292.402†	328.5	-18.3	-0.1376	µg/L	-0.1376	ppb	11:43:37
1	Zn 213.857†	591.5	64.7	0.8627	µg/L	0.8627	ppb	11:43:57
2	Sc RADIAL	21627.5	21627.5	101	%			11:42:17
2	Al 396.153Radial†	-79.0	17.7	31.718	µg/L	31.718	ppb	11:42:17
2	Ca 317.933Radial†	77.2	9.8	6.6013	µg/L	6.6013	ppb	11:42:37
2	Fe 238.204 Radial†	28.6	-2.2	-7.3483	µg/L	-7.3483	ppb	11:42:37
2	K 766.490 Radial†	652.5	-31.7	-41.358	µg/L	-41.358	ppb	11:42:17
2	Mg 279.077 IEC†	5.7	2.4	16.996	µg/L	16.996	ppb	11:42:37
2	Na 589.592 Radial†	-58.9	-16.6	-16.009	µg/L	-16.009	ppb	11:42:17
2	Sr 421.552†	43.8	5.6	0.0654	µg/L	0.0654	ppb	11:42:17
2	Sc 361.383	1216553.1	1216553.1	101.66	%			11:43:59
2	Y 371.029	718799.8	718799.8	101.73	%			11:43:59
2	Ag 328.068†	536.6	-118.3	-0.8483	µg/L	-0.8483	ppb	11:44:01
2	As 188.979†	-6.3	-3.5	-7.8907	µg/L	-7.8907	ppb	11:44:21
2	B 249.677†	511.4	247.8	3.1403	µg/L	3.1403	ppb	11:44:21
2	Ba 233.527†	-101.1	-9.1	-0.1343	µg/L	-0.1343	ppb	11:44:21
2	Be 313.107†	-6731.6	168.1	0.0743	µg/L	0.0743	ppb	11:44:01
2	Cd 226.502†	-69.8	21.2	0.3442	µg/L	0.3442	ppb	11:44:21
2	Co 228.616†	-108.6	-1.2	-0.0362	µg/L	-0.0362	ppb	11:44:21
2	Cr 267.716†	172.5	48.5	0.9116	µg/L	0.9116	ppb	11:44:21
2	Cu 324.752†	3836.1	-249.0	-1.7477	µg/L	-1.7477	ppb	11:44:01
2	Mn 257.610†	225.5	23.8	0.0717	µg/L	0.0717	ppb	11:44:21
2	Mo 202.031†	-0.6	8.8	1.0610	µg/L	1.0610	ppb	11:44:21
2	Ni 231.604†	-25.7	12.5	0.3848	µg/L	0.3848	ppb	11:44:21
2	P 214.914†	-57.3	11.8	12.082	µg/L	12.082	ppb	11:44:21
2	Pb 220.353†	100.0	-10.1	-2.2972	µg/L	-2.2972	ppb	11:44:21

2	S 181.975 Axial†	26.9	1.7	5.9285	µg/L	5.9285	ppb	11:44:21
2	Sb 206.836†	3.2	-3.4	-2.1494	µg/L	-2.1494	ppb	11:44:21
2	Se 196.026†	24.6	7.3	10.4	µg/L	10.4	ppb	11:44:21
2	SiO2†	1842.0	-80.5	-15.181	µg/L	-15.181	ppb	11:44:21
2	Si 251.611†	408.0	46.7	1.3882	µg/L	1.3882	ppb	11:44:21
2	Sn 189.927†	1.0	-3.0	-1.1934	µg/L	-1.1934	ppb	11:44:21
2	Ti 334.940†	1341.7	-200.9	-0.3941	µg/L	-0.3941	ppb	11:44:01
2	Tl 190.801†	-17.5	-1.4	-1.9314	µg/L	-1.9314	ppb	11:44:21
2	U 367.007†	362.0	35.9	11.276	µg/L	11.276	ppb	11:44:01
2	V 292.402†	258.0	-91.9	-0.6483	µg/L	-0.6483	ppb	11:44:01
2	Zn 213.857†	608.2	73.7	0.9767	µg/L	0.9767	ppb	11:44:21
3	Sc RADIAL	20860.5	20860.5	97.1	%			11:42:57
3	Al 396.153Radial†	-90.5	3.1	5.4495	µg/L	5.4495	ppb	11:42:57
3	Ca 317.933Radial†	68.2	3.3	2.2212	µg/L	2.2212	ppb	11:43:17
3	Fe 238.204 Radial†	27.2	-2.5	-8.5799	µg/L	-8.5799	ppb	11:43:17
3	K 766.490 Radial†	669.4	9.6	12.509	µg/L	12.509	ppb	11:42:57
3	Mg 279.077 IEC†	3.0	-0.1	-1.0525	µg/L	-1.0525	ppb	11:43:17
3	Na 589.592 Radial†	-14.2	27.2	26.204	µg/L	26.204	ppb	11:42:57
3	Sr 421.552†	40.3	3.5	0.0411	µg/L	0.0411	ppb	11:42:57
3	Sc 361.383	1222090.9	1222090.9	102.12	%			11:44:23
3	Y 371.029	722317.6	722317.6	102.23	%			11:44:23
3	Ag 328.068†	544.0	-113.5	-0.7899	µg/L	-0.7899	ppb	11:44:25
3	As 188.979†	-2.5	0.2	0.5503	µg/L	0.5503	ppb	11:44:45
3	B 249.677†	482.5	217.3	2.7415	µg/L	2.7415	ppb	11:44:45
3	Ba 233.527†	-87.2	5.0	0.0720	µg/L	0.0720	ppb	11:44:45
3	Be 313.107†	-6731.1	198.6	0.0878	µg/L	0.0878	ppb	11:44:25
3	Cd 226.502†	-78.3	13.1	0.2134	µg/L	0.2134	ppb	11:44:45
3	Co 228.616†	-103.8	4.0	0.1229	µg/L	0.1229	ppb	11:44:45
3	Cr 267.716†	153.0	28.6	0.5517	µg/L	0.5517	ppb	11:44:45
3	Cu 324.752†	3972.6	-132.3	-0.9397	µg/L	-0.9397	ppb	11:44:25
3	Mn 257.610†	218.9	16.3	0.0493	µg/L	0.0493	ppb	11:44:45
3	Mo 202.031†	-2.3	7.2	0.8648	µg/L	0.8648	ppb	11:44:45
3	Ni 231.604†	-40.8	-2.2	-0.0675	µg/L	-0.0675	ppb	11:44:45
3	P 214.914†	-60.2	9.2	9.4530	µg/L	9.4530	ppb	11:44:45
3	Pb 220.353†	92.2	-18.1	-4.1024	µg/L	-4.1024	ppb	11:44:45
3	S 181.975 Axial†	19.9	-5.2	-18.022	µg/L	-18.022	ppb	11:44:45
3	Sb 206.836†	10.1	3.3	2.1313	µg/L	2.1313	ppb	11:44:45
3	Se 196.026†	19.0	1.8	2.49	µg/L	2.49	ppb	11:44:45
3	SiO2†	1795.8	-134.0	-25.277	µg/L	-25.277	ppb	11:44:45
3	Si 251.611†	415.5	52.2	1.5578	µg/L	1.5578	ppb	11:44:45
3	Sn 189.927†	3.1	-0.9	-0.3724	µg/L	-0.3724	ppb	11:44:45
3	Ti 334.940†	1490.2	-61.5	-0.1113	µg/L	-0.1113	ppb	11:44:25
3	Tl 190.801†	-12.0	4.1	5.6782	µg/L	5.6782	ppb	11:44:45
3	U 367.007†	278.2	-47.8	-14.890	µg/L	-14.890	ppb	11:44:25
3	V 292.402†	302.6	-49.3	-0.3572	µg/L	-0.3572	ppb	11:44:25
3	Zn 213.857†	581.5	44.8	0.5960	µg/L	0.5960	ppb	11:44:45

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1213174.9	101.38	%	0.919				0.91%
Sc RADIAL	21448.8	99.8	%	2.43				2.44%
Y 371.029	717148.8	101.50	%	0.872				0.86%
Ag 328.068†	-78.3	-0.5523	µg/L	0.46299	-0.5523	ppb	0.46299	83.83%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	11.4	20.457	µg/L	13.5290	20.457	ppb	13.5290	66.13%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.0	-0.0107	µg/L	7.61506	-0.0107	ppb	7.61506	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	250.4	3.1666	µg/L	0.43876	3.1666	ppb	0.43876	13.86%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-4.6	-0.0680	µg/L	0.12135	-0.0680	ppb	0.12135	178.39%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	185.4	0.0820	µg/L	0.00691	0.0820	ppb	0.00691	8.43%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.4	3.6512	µg/L	2.55522	3.6512	ppb	2.55522	69.98%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	15.3	0.2490	µg/L	0.08331	0.2490	ppb	0.08331	33.46%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	0.8	0.0256	µg/L	0.08526	0.0256	ppb	0.08526	332.43%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                29.6      0.5639 µg/L       0.34171      0.5639 ppb        0.34171  60.60%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -181.0     -1.2759 µg/L       0.42075     -1.2759 ppb        0.42075  32.98%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -2.5     -8.3800 µg/L       0.94779     -8.3800 ppb        0.94779  11.31%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -12.8     -16.687 µg/L       27.2173     -16.687 ppb        27.2173 163.11%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -0.1     -0.7847 µg/L      17.64837     -0.7847 ppb       17.64837 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                28.4      0.0864 µg/L       0.04623      0.0864 ppb        0.04623  53.51%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 5.2      0.6230 µg/L       0.59678      0.6230 ppb        0.59678  95.79%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          0.4      0.4296 µg/L      22.60216      0.4296 ppb       22.60216 >999.9%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 0.7      0.0226 µg/L       0.32657      0.0226 ppb        0.32657 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  9.5      9.7117 µg/L       2.25229      9.7117 ppb        2.25229  23.19%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -13.5     -3.0555 µg/L       0.93655     -3.0555 ppb        0.93655  30.65%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -3.6     -12.461 µg/L       16.3355     -12.461 ppb        16.3355 131.09%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -0.6     -0.3549 µg/L       2.22259     -0.3549 ppb        2.22259 626.26%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 3.1        4.42 µg/L         5.238        4.42 ppb          5.238 118.43%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -109.9     -20.734 µg/L        5.1233     -20.734 ppb         5.1233  24.71%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                40.6      1.2100 µg/L       0.46331      1.2100 ppb        0.46331  38.29%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -3.4     -1.3738 µg/L       1.10276     -1.3738 ppb        1.10276  80.27%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 9.6      0.1136 µg/L       0.10527      0.1136 ppb        0.10527  92.64%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -103.7     -0.1989 µg/L       0.16933     -0.1989 ppb        0.16933  85.12%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 2.3      3.2218 µg/L       4.46446      3.2218 ppb        4.46446 138.57%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 -8.9     -2.7533 µg/L      13.18491     -2.7533 ppb       13.18491 478.88%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -53.2     -0.3811 µg/L       0.25619     -0.3811 ppb        0.25619  67.23%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                61.1      0.8118 µg/L       0.19540      0.8118 ppb        0.19540  24.07%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

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Analysis Begun

Start Time: 11/7/2013 11:54:53 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110713.sif
Batch ID:
Results Data Set: 110713
Results Library: C:\pe\optima4\Results\Results.mdb

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Method Loaded
Method Name: Gen Eng fast_new SiU **Method Last Saved: 11/7/2013 11:06:28**
IEC File: 101613.iec **MSF File:**
Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
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
SiO2	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 367.007	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 11:54:55**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21628.6	21628.6	101	%			11:55:26
1	Al 396.153Radial†	3186.6	3262.0	5830.1	µg/L	5830.1	ppb	11:55:46
1	Ca 317.933Radial†	7683.8	7566.7	5123.7	µg/L	5123.7	ppb	11:55:46
1	Fe 238.204 Radial†	1583.2	1542.3	5217.7	µg/L	5217.7	ppb	11:55:46

1	K 766.490 Radial†	4690.9	3980.3	5203.7	µg/L	5203.7 ppb	11:55:26
1	Mg 279.077 IEC†	769.7	761.5	5346.6	µg/L	5346.6 ppb	11:55:46
1	Na 589.592 Radial†	13282.9	13238.1	12746	µg/L	12746 ppb	11:55:26
1	Sr 421.552†	43300.9	42980.4	506.40	µg/L	506.40 ppb	11:55:26
1	Sc 361.383	1321378.7	1321378.7	110.42	%		11:56:48
1	Y 371.029	765864.5	765864.5	108.39	%		11:56:48
1	Ag 328.068†	75273.7	67524.0	478.69	µg/L	478.69 ppb	11:56:50
1	As 188.979†	221.9	203.6	470.35	µg/L	470.35 ppb	11:57:10
1	B 249.677†	40569.9	36486.1	435.65	µg/L	435.65 ppb	11:56:50
1	Ba 233.527†	34829.3	31632.9	462.72	µg/L	462.72 ppb	11:56:50
1	Be 313.107†	1104955.3	1007469.8	445.48	µg/L	445.48 ppb	11:56:48
1	Cd 226.502†	31282.2	28419.9	458.79	µg/L	458.79 ppb	11:56:50
1	Co 228.616†	16591.9	15131.7	461.99	µg/L	461.99 ppb	11:56:50
1	Cr 267.716†	26977.9	24310.7	460.96	µg/L	460.96 ppb	11:56:50
1	Cu 324.752†	77667.5	66315.6	467.75	µg/L	467.75 ppb	11:56:50
1	Mn 257.610†	168948.3	152806.5	465.20	µg/L	465.20 ppb	11:56:50
1	Mo 202.031†	4228.1	3838.6	462.27	µg/L	462.27 ppb	11:57:10
1	Ni 231.604†	16596.0	15067.6	463.92	µg/L	463.92 ppb	11:56:50
1	P 214.914†	2323.2	2172.1	2208.4	µg/L	2208.4 ppb	11:57:10
1	Pb 220.353†	2320.4	1993.0	453.75	µg/L	453.75 ppb	11:57:10
1	S 181.975 Axial†	318.7	263.9	903.78	µg/L	903.78 ppb	11:57:10
1	Sb 206.836†	798.7	716.8	456.54	µg/L	456.54 ppb	11:57:10
1	Se 196.026†	373.5	321.4	457	µg/L	457 ppb	11:57:10
1	SiO2†	30556.8	25780.7	4874.9	µg/L	4874.9 ppb	11:56:50
1	Si 251.611†	84604.6	76265.7	2287.4	µg/L	2287.4 ppb	11:56:50
1	Sn 189.927†	1224.1	1104.7	447.24	µg/L	447.24 ppb	11:57:10
1	Ti 334.940†	266899.2	240191.1	464.03	µg/L	464.03 ppb	11:56:50
1	Tl 190.801†	351.2	333.9	457.76	µg/L	457.76 ppb	11:57:10
1	U 367.007†	1945.3	1441.6	421.02	µg/L	421.02 ppb	11:56:50
1	V 292.402†	70349.0	63364.5	468.67	µg/L	468.67 ppb	11:56:50
1	Zn 213.857†	38898.1	34702.6	456.98	µg/L	456.98 ppb	11:56:50
2	Sc RADIAL	21118.2	21118.2	98.3	%		11:55:48
2	Al 396.153Radial†	3154.8	3306.2	5908.7	µg/L	5908.7 ppb	11:56:08
2	Ca 317.933Radial†	7623.2	7689.5	5206.8	µg/L	5206.8 ppb	11:56:08
2	Fe 238.204 Radial†	1568.7	1565.6	5296.0	µg/L	5296.0 ppb	11:56:08
2	K 766.490 Radial†	4602.7	4003.2	5234.2	µg/L	5234.2 ppb	11:55:48
2	Mg 279.077 IEC†	755.1	765.1	5371.9	µg/L	5371.9 ppb	11:56:08
2	Na 589.592 Radial†	13202.2	13475.0	12974	µg/L	12974 ppb	11:55:48
2	Sr 421.552†	43653.0	44378.6	522.88	µg/L	522.88 ppb	11:55:48
2	Sc 361.383	1174003.9	1174003.9	98.105	%		11:57:12
2	Y 371.029	680352.5	680352.5	96.289	%		11:57:12
2	Ag 328.068†	70843.4	71565.5	507.32	µg/L	507.32 ppb	11:57:14
2	As 188.979†	213.7	220.6	509.33	µg/L	509.33 ppb	11:57:34
2	B 249.677†	38154.0	38635.7	462.27	µg/L	462.27 ppb	11:57:14
2	Ba 233.527†	32406.0	33122.3	484.52	µg/L	484.52 ppb	11:57:14
2	Be 313.107†	1085153.5	1112902.8	492.10	µg/L	492.10 ppb	11:57:12
2	Cd 226.502†	28856.2	29503.4	476.30	µg/L	476.30 ppb	11:57:14
2	Co 228.616†	15429.6	15833.2	483.42	µg/L	483.42 ppb	11:57:14
2	Cr 267.716†	25310.7	25678.4	486.87	µg/L	486.87 ppb	11:57:14
2	Cu 324.752†	73095.8	70485.3	497.13	µg/L	497.13 ppb	11:57:14
2	Mn 257.610†	158410.7	161272.3	490.98	µg/L	490.98 ppb	11:57:14
2	Mo 202.031†	4109.5	4198.3	505.57	µg/L	505.57 ppb	11:57:34
2	Ni 231.604†	15393.3	15728.3	484.26	µg/L	484.26 ppb	11:57:14
2	P 214.914†	2267.9	2379.8	2420.2	µg/L	2420.2 ppb	11:57:34
2	Pb 220.353†	2259.9	2195.1	499.71	µg/L	499.71 ppb	11:57:34
2	S 181.975 Axial†	301.0	282.1	966.18	µg/L	966.18 ppb	11:57:34
2	Sb 206.836†	775.4	783.9	499.40	µg/L	499.40 ppb	11:57:34
2	Se 196.026†	362.8	352.9	501	µg/L	501 ppb	11:57:34
2	SiO2†	28695.5	27357.3	5173.0	µg/L	5173.0 ppb	11:57:14
2	Si 251.611†	79191.8	80366.7	2410.1	µg/L	2410.1 ppb	11:57:14
2	Sn 189.927†	1194.1	1213.2	491.16	µg/L	491.16 ppb	11:57:34
2	Ti 334.940†	251036.8	254364.8	491.39	µg/L	491.39 ppb	11:57:14
2	Tl 190.801†	354.7	377.4	517.91	µg/L	517.91 ppb	11:57:34
2	U 367.007†	1916.5	1633.4	480.48	µg/L	480.48 ppb	11:57:14
2	V 292.402†	65778.6	66703.5	493.59	µg/L	493.59 ppb	11:57:14
2	Zn 213.857†	36466.7	36646.5	482.64	µg/L	482.64 ppb	11:57:14
3	Sc RADIAL	21647.7	21647.7	101	%		11:56:10
3	Al 396.153Radial†	3124.7	3197.8	5714.8	µg/L	5714.8 ppb	11:56:30
3	Ca 317.933Radial†	7556.9	7434.0	5033.8	µg/L	5033.8 ppb	11:56:30
3	Fe 238.204 Radial†	1554.6	1512.5	5115.2	µg/L	5115.2 ppb	11:56:30
3	K 766.490 Radial†	4687.8	3973.2	5195.4	µg/L	5195.4 ppb	11:56:10

3	Mg 279.077 IEC†	747.5	738.7	5186.8 µg/L	5186.8 ppb	11:56:30
3	Na 589.592 Radial†	13272.9	13216.5	12725 µg/L	12725 ppb	11:56:10
3	Sr 421.552†	43828.8	43466.5	512.13 µg/L	512.13 ppb	11:56:10
3	Sc 361.383	1213219.8	1213219.8	101.38 %		11:57:37
3	Y 371.029	702302.4	702302.4	99.396 %		11:57:37
3	Ag 328.068†	75580.1	73903.5	523.92 µg/L	523.92 ppb	11:57:39
3	As 188.979†	221.3	221.0	510.36 µg/L	510.36 ppb	11:57:59
3	B 249.677†	41162.8	40346.4	484.43 µg/L	484.43 ppb	11:57:39
3	Ba 233.527†	35098.0	34709.9	507.75 µg/L	507.75 ppb	11:57:39
3	Be 313.107†	1157963.6	1148966.5	508.04 µg/L	508.04 ppb	11:57:37
3	Cd 226.502†	31498.8	31159.2	503.09 µg/L	503.09 ppb	11:57:39
3	Co 228.616†	16780.1	16656.9	508.55 µg/L	508.55 ppb	11:57:39
3	Cr 267.716†	27205.9	26713.8	506.50 µg/L	506.50 ppb	11:57:39
3	Cu 324.752†	78368.7	73277.8	516.77 µg/L	516.77 ppb	11:57:39
3	Mn 257.610†	170873.4	168345.7	512.52 µg/L	512.52 ppb	11:57:39
3	Mo 202.031†	4244.4	4196.0	505.28 µg/L	505.28 ppb	11:57:59
3	Ni 231.604†	16742.4	16551.9	509.62 µg/L	509.62 ppb	11:57:39
3	P 214.914†	2360.6	2396.6	2437.3 µg/L	2437.3 ppb	11:57:59
3	Pb 220.353†	2331.8	2191.6	498.91 µg/L	498.91 ppb	11:57:59
3	S 181.975 Axial†	320.1	291.0	996.96 µg/L	996.96 ppb	11:57:59
3	Sb 206.836†	801.4	783.9	499.27 µg/L	499.27 ppb	11:57:59
3	Se 196.026†	372.1	350.2	497 µg/L	497 ppb	11:57:59
3	SiO2†	30850.4	28537.4	5396.1 µg/L	5396.1 ppb	11:57:39
3	Si 251.611†	85547.8	84026.9	2520.1 µg/L	2520.1 ppb	11:57:39
3	Sn 189.927†	1241.7	1220.8	494.21 µg/L	494.21 ppb	11:57:59
3	Ti 334.940†	270072.8	264870.1	511.67 µg/L	511.67 ppb	11:57:39
3	Tl 190.801†	350.9	362.0	496.25 µg/L	496.25 ppb	11:57:59
3	U 367.007†	1999.0	1651.6	487.00 µg/L	487.00 ppb	11:57:39
3	V 292.402†	71026.2	69712.2	515.49 µg/L	515.49 ppb	11:57:39
3	Zn 213.857†	39359.3	38298.1	504.42 µg/L	504.42 ppb	11:57:39

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1236200.8	103.30	%	6.378				6.17%
Sc RADIAL	21464.8	99.9	%	1.40				1.40%
Y 371.029	716173.1	101.36	%	6.285				6.20%
Ag 328.068†	70997.7	503.31	µg/L	22.881	503.31	ppb	22.881	4.55%
QC value within limits for Ag 328.068 Recovery = 100.66%								
Al 396.153Radial†	3255.4	5817.9	µg/L	97.52	5817.9	ppb	97.52	1.68%
QC value greater than the upper limit for Al 396.153Radial Recovery = 116.36%								
As 188.979†	215.1	496.68	µg/L	22.806	496.68	ppb	22.806	4.59%
QC value within limits for As 188.979 Recovery = 99.34%								
B 249.677†	38489.4	460.78	µg/L	24.423	460.78	ppb	24.423	5.30%
QC value within limits for B 249.677 Recovery = 92.16%								
Ba 233.527†	33155.0	485.00	µg/L	22.515	485.00	ppb	22.515	4.64%
QC value within limits for Ba 233.527 Recovery = 97.00%								
Be 313.107†	1089779.7	481.87	µg/L	32.512	481.87	ppb	32.512	6.75%
QC value within limits for Be 313.107 Recovery = 96.37%								
Ca 317.933Radial†	7563.4	5121.4	µg/L	86.55	5121.4	ppb	86.55	1.69%
QC value within limits for Ca 317.933Radial Recovery = 102.43%								
Cd 226.502†	29694.1	479.39	µg/L	22.312	479.39	ppb	22.312	4.65%
QC value within limits for Cd 226.502 Recovery = 95.88%								
Co 228.616†	15873.9	484.65	µg/L	23.307	484.65	ppb	23.307	4.81%
QC value within limits for Co 228.616 Recovery = 96.93%								
Cr 267.716†	25567.6	484.77	µg/L	22.839	484.77	ppb	22.839	4.71%
QC value within limits for Cr 267.716 Recovery = 96.95%								
Cu 324.752†	70026.2	493.88	µg/L	24.671	493.88	ppb	24.671	5.00%
QC value within limits for Cu 324.752 Recovery = 98.78%								
Fe 238.204 Radial†	1540.1	5209.6	µg/L	90.67	5209.6	ppb	90.67	1.74%
QC value within limits for Fe 238.204 Radial Recovery = 104.19%								
K 766.490 Radial†	3985.6	5211.1	µg/L	20.44	5211.1	ppb	20.44	0.39%
QC value within limits for K 766.490 Radial Recovery = 104.22%								
Mg 279.077 IEC†	755.1	5301.8	µg/L	100.40	5301.8	ppb	100.40	1.89%
QC value within limits for Mg 279.077 IEC Recovery = 106.04%								
Mn 257.610†	160808.2	489.57	µg/L	23.691	489.57	ppb	23.691	4.84%
QC value within limits for Mn 257.610 Recovery = 97.91%								
Mo 202.031†	4077.6	491.04	µg/L	24.915	491.04	ppb	24.915	5.07%
QC value within limits for Mo 202.031 Recovery = 98.21%								
Na 589.592 Radial†	13309.9	12815	µg/L	138.1	12815	ppb	138.1	1.08%

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   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 128.15%
Ni 231.604†            15782.6      485.93 µg/L        22.898      485.93 ppb         22.898   4.71%
   QC value within limits for Ni 231.604  Recovery = 97.19%
P 214.914†              2316.2      2355.3 µg/L       127.51      2355.3 ppb         127.51   5.41%
   QC value within limits for P 214.914  Recovery = 94.21%
Pb 220.353†             2126.6      484.13 µg/L        26.307      484.13 ppb         26.307   5.43%
   QC value within limits for Pb 220.353  Recovery = 96.83%
S 181.975 Axial†         279.0      955.64 µg/L        47.476      955.64 ppb         47.476   4.97%
   QC value within limits for S 181.975 Axial  Recovery = 95.56%
Sb 206.836†              761.5      485.07 µg/L        24.709      485.07 ppb         24.709   5.09%
   QC value within limits for Sb 206.836  Recovery = 97.01%
Se 196.026†              341.5         485 µg/L          24.7         485 ppb           24.7   5.10%
   QC value within limits for Se 196.026  Recovery = 97.00%
SiO2†                  27225.1      5148.0 µg/L        261.49      5148.0 ppb         261.49   5.08%
   QC value within limits for SiO2  Recovery = 96.27%
Si 251.611†            80219.8      2405.9 µg/L        116.43      2405.9 ppb         116.43   4.84%
   QC value within limits for Si 251.611  Recovery = 96.23%
Sn 189.927†             1179.6      477.54 µg/L        26.281      477.54 ppb         26.281   5.50%
   QC value within limits for Sn 189.927  Recovery = 95.51%
Sr 421.552†            43608.5      513.81 µg/L         8.363      513.81 ppb          8.363   1.63%
   QC value within limits for Sr 421.552  Recovery = 102.76%
Ti 334.940†           253142.0      489.03 µg/L        23.907      489.03 ppb         23.907   4.89%
   QC value within limits for Ti 334.940  Recovery = 97.81%
Tl 190.801†              357.7      490.64 µg/L        30.462      490.64 ppb         30.462   6.21%
   QC value within limits for Tl 190.801  Recovery = 98.13%
U 367.007†              1575.5      462.83 µg/L        36.359      462.83 ppb         36.359   7.86%
   QC value within limits for U 367.007  Recovery = 92.57%
V 292.402†             66593.4      492.58 µg/L        23.428      492.58 ppb         23.428   4.76%
   QC value within limits for V 292.402  Recovery = 98.52%
Zn 213.857†            36549.0      481.35 µg/L        23.745      481.35 ppb         23.745   4.93%
   QC value within limits for Zn 213.857  Recovery = 96.27%
QC Failed.  Continue with analysis.
```

Sequence No.: 2 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 11:58:07**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20284.3	20284.3	94.4	%			11:58:54
1	Al 396.153Radial†	-89.4	1.5	2.7363	µg/L	2.7363	ppb	11:58:54
1	Ca 317.933Radial†	81.0	18.8	12.751	µg/L	12.751	ppb	11:59:14
1	Fe 238.204 Radial†	30.4	1.6	5.5610	µg/L	5.5610	ppb	11:59:14
1	K 766.490 Radial†	653.9	12.7	16.651	µg/L	16.651	ppb	11:58:54
1	Mg 279.077 IEC†	5.1	2.2	15.275	µg/L	15.275	ppb	11:59:14
1	Na 589.592 Radial†	-46.4	-7.3	-6.9917	µg/L	-6.9917	ppb	11:58:54
1	Sr 421.552†	55.6	20.9	0.2466	µg/L	0.2466	ppb	11:58:54
1	Sc 361.383	1161061.0	1161061.0	97.024	%			12:00:52
1	Y 371.029	685503.4	685503.4	97.018	%			12:00:52
1	Ag 328.068†	552.0	-77.2	-0.5311	µg/L	-0.5311	ppb	12:00:54
1	As 188.979†	-0.6	2.1	4.6844	µg/L	4.6844	ppb	12:01:14
1	B 249.677†	338.9	94.0	1.1484	µg/L	1.1484	ppb	12:01:14
1	Ba 233.527†	-83.1	4.7	0.0657	µg/L	0.0657	ppb	12:01:14
1	Be 313.107†	-6663.5	-78.2	-0.0346	µg/L	-0.0346	ppb	12:00:54
1	Cd 226.502†	-100.1	-13.3	-0.2160	µg/L	-0.2160	ppb	12:01:14
1	Co 228.616†	-89.1	13.8	0.4216	µg/L	0.4216	ppb	12:01:14
1	Cr 267.716†	113.3	-4.5	-0.0719	µg/L	-0.0719	ppb	12:01:14
1	Cu 324.752†	3838.7	-66.0	-0.4727	µg/L	-0.4727	ppb	12:00:54
1	Mn 257.610†	205.6	13.9	0.0418	µg/L	0.0418	ppb	12:01:14
1	Mo 202.031†	-0.3	9.2	1.1020	µg/L	1.1020	ppb	12:01:14
1	Ni 231.604†	-36.9	-0.3	-0.0103	µg/L	-0.0103	ppb	12:01:14
1	P 214.914†	-71.1	-5.1	-5.2706	µg/L	-5.2706	ppb	12:01:14
1	Pb 220.353†	96.5	-9.0	-2.0259	µg/L	-2.0259	ppb	12:01:14
1	S 181.975 Axial†	24.9	1.0	3.3902	µg/L	3.3902	ppb	12:01:14
1	Sb 206.836†	2.6	-3.8	-2.4109	µg/L	-2.4109	ppb	12:01:14
1	Se 196.026†	11.1	-5.5	-7.72	µg/L	-7.72	ppb	12:01:14
1	SiO2†	1784.2	-53.5	-10.105	µg/L	-10.105	ppb	12:01:14
1	Si 251.611†	370.6	27.3	0.8055	µg/L	0.8055	ppb	12:01:14
1	Sn 189.927†	6.9	3.2	1.2826	µg/L	1.2826	ppb	12:01:14
1	Ti 334.940†	1402.0	-75.7	-0.1355	µg/L	-0.1355	ppb	12:00:54
1	Tl 190.801†	-13.6	1.8	2.5379	µg/L	2.5379	ppb	12:01:14
1	U 367.007†	249.8	-62.8	-19.656	µg/L	-19.656	ppb	12:00:54
1	V 292.402†	198.2	-141.3	-1.0262	µg/L	-1.0262	ppb	12:00:54
1	Zn 213.857†	539.4	31.3	0.4150	µg/L	0.4150	ppb	12:01:14
2	Sc RADIAL	20505.3	20505.3	95.4	%			11:59:34
2	Al 396.153Radial†	-79.4	13.0	23.247	µg/L	23.247	ppb	11:59:34
2	Ca 317.933Radial†	62.2	-1.8	-1.2359	µg/L	-1.2359	ppb	11:59:54
2	Fe 238.204 Radial†	25.8	-3.5	-11.863	µg/L	-11.863	ppb	11:59:54
2	K 766.490 Radial†	628.9	-21.0	-27.396	µg/L	-27.396	ppb	11:59:34
2	Mg 279.077 IEC†	7.5	4.6	32.429	µg/L	32.429	ppb	11:59:54
2	Na 589.592 Radial†	-53.5	-14.2	-13.644	µg/L	-13.644	ppb	11:59:34
2	Sr 421.552†	32.7	-3.7	-0.0440	µg/L	-0.0440	ppb	11:59:34
2	Sc 361.383	1112696.9	1112696.9	92.982	%			12:01:16
2	Y 371.029	657379.8	657379.8	93.038	%			12:01:16
2	Ag 328.068†	688.0	93.8	0.6646	µg/L	0.6646	ppb	12:01:18
2	As 188.979†	-5.3	-3.0	-6.7414	µg/L	-6.7414	ppb	12:01:38
2	B 249.677†	369.5	142.2	1.8330	µg/L	1.8330	ppb	12:01:38
2	Ba 233.527†	-85.9	-2.0	-0.0274	µg/L	-0.0274	ppb	12:01:38
2	Be 313.107†	-6563.3	-269.0	-0.1189	µg/L	-0.1189	ppb	12:01:18
2	Cd 226.502†	-81.6	2.0	0.0348	µg/L	0.0348	ppb	12:01:38
2	Co 228.616†	-91.2	7.5	0.2314	µg/L	0.2314	ppb	12:01:38
2	Cr 267.716†	125.9	14.1	0.2677	µg/L	0.2677	ppb	12:01:38
2	Cu 324.752†	3805.5	70.4	0.4937	µg/L	0.4937	ppb	12:01:18
2	Mn 257.610†	176.7	-8.0	-0.0258	µg/L	-0.0258	ppb	12:01:38
2	Mo 202.031†	-6.9	2.0	0.2425	µg/L	0.2425	ppb	12:01:38
2	Ni 231.604†	-28.6	7.0	0.2149	µg/L	0.2149	ppb	12:01:38
2	P 214.914†	-57.3	6.5	6.6419	µg/L	6.6419	ppb	12:01:38
2	Pb 220.353†	96.1	-5.1	-1.1528	µg/L	-1.1528	ppb	12:01:38

2	S 181.975 Axial†	22.6	-0.4	-1.3705	µg/L	-1.3705	ppb	12:01:38
2	Sb 206.836†	2.7	-3.6	-2.3183	µg/L	-2.3183	ppb	12:01:38
2	Se 196.026†	12.5	-3.4	-4.88	µg/L	-4.88	ppb	12:01:38
2	SiO2†	1713.7	-49.4	-9.3153	µg/L	-9.3153	ppb	12:01:38
2	Si 251.611†	362.3	35.0	1.0463	µg/L	1.0463	ppb	12:01:38
2	Sn 189.927†	1.2	-2.6	-1.0521	µg/L	-1.0521	ppb	12:01:38
2	Ti 334.940†	1194.6	-236.0	-0.4563	µg/L	-0.4563	ppb	12:01:18
2	Tl 190.801†	-13.1	1.7	2.3241	µg/L	2.3241	ppb	12:01:38
2	U 367.007†	297.4	-0.3	-0.0486	µg/L	-0.0486	ppb	12:01:18
2	V 292.402†	365.5	47.5	0.3476	µg/L	0.3476	ppb	12:01:18
2	Zn 213.857†	540.6	56.7	0.7514	µg/L	0.7514	ppb	12:01:38
3	Sc RADIAL	19911.1	19911.1	92.7	%			12:00:14
3	Al 396.153Radial†	-76.8	13.3	23.770	µg/L	23.770	ppb	12:00:14
3	Ca 317.933Radial†	72.8	11.5	7.8007	µg/L	7.8007	ppb	12:00:34
3	Fe 238.204 Radial†	32.1	4.1	14.022	µg/L	14.022	ppb	12:00:34
3	K 766.490 Radial†	628.8	-1.4	-1.8328	µg/L	-1.8328	ppb	12:00:14
3	Mg 279.077 IEC†	3.3	0.4	2.8258	µg/L	2.8258	ppb	12:00:34
3	Na 589.592 Radial†	-29.4	10.1	9.7197	µg/L	9.7197	ppb	12:00:14
3	Sr 421.552†	42.8	8.2	0.0964	µg/L	0.0964	ppb	12:00:14
3	Sc 361.383	1075274.3	1075274.3	89.855	%			12:01:40
3	Y 371.029	634941.8	634941.8	89.862	%			12:01:40
3	Ag 328.068†	460.9	-133.2	-0.9358	µg/L	-0.9358	ppb	12:01:42
3	As 188.979†	-4.6	-2.4	-5.5429	µg/L	-5.5429	ppb	12:02:02
3	B 249.677†	329.3	111.2	1.3354	µg/L	1.3354	ppb	12:02:02
3	Ba 233.527†	-96.4	-16.9	-0.2457	µg/L	-0.2457	ppb	12:02:02
3	Be 313.107†	-6888.2	-876.2	-0.3874	µg/L	-0.3874	ppb	12:01:42
3	Cd 226.502†	-76.4	4.8	0.0748	µg/L	0.0748	ppb	12:02:02
3	Co 228.616†	-111.3	-18.3	-0.5577	µg/L	-0.5577	ppb	12:02:02
3	Cr 267.716†	121.1	13.6	0.2619	µg/L	0.2619	ppb	12:02:02
3	Cu 324.752†	3916.8	336.6	2.3672	µg/L	2.3672	ppb	12:01:42
3	Mn 257.610†	193.8	17.7	0.0540	µg/L	0.0540	ppb	12:02:02
3	Mo 202.031†	-8.1	0.4	0.0522	µg/L	0.0522	ppb	12:02:02
3	Ni 231.604†	-50.5	-18.5	-0.5699	µg/L	-0.5699	ppb	12:02:02
3	P 214.914†	-56.7	5.1	5.1369	µg/L	5.1369	ppb	12:02:02
3	Pb 220.353†	83.1	-15.9	-3.6141	µg/L	-3.6141	ppb	12:02:02
3	S 181.975 Axial†	22.7	0.6	1.9583	µg/L	1.9583	ppb	12:02:02
3	Sb 206.836†	4.3	-1.7	-1.0941	µg/L	-1.0941	ppb	12:02:02
3	Se 196.026†	8.1	-7.8	-11.1	µg/L	-11.1	ppb	12:02:02
3	SiO2†	1722.4	24.5	4.6248	µg/L	4.6248	ppb	12:02:02
3	Si 251.611†	340.5	24.3	0.7320	µg/L	0.7320	ppb	12:02:02
3	Sn 189.927†	-1.7	-5.8	-2.3606	µg/L	-2.3606	ppb	12:02:02
3	Ti 334.940†	1261.1	-117.2	-0.2229	µg/L	-0.2229	ppb	12:01:42
3	Tl 190.801†	-16.3	-2.4	-3.2633	µg/L	-3.2633	ppb	12:02:02
3	U 367.007†	268.8	-21.1	-6.6534	µg/L	-6.6534	ppb	12:01:42
3	V 292.402†	339.6	32.3	0.2346	µg/L	0.2346	ppb	12:01:42
3	Zn 213.857†	533.1	68.6	0.9100	µg/L	0.9100	ppb	12:02:02

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1116344.0	93.287	%	3.5941				3.85%
Sc RADIAL	20233.6	94.2	%	1.40				1.48%
Y 371.029	659275.0	93.306	%	3.5855				3.84%
Ag 328.068†	-38.9	-0.2674	µg/L	0.83215	-0.2674	ppb	0.83215	311.17%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	9.3	16.585	µg/L	11.9958	16.585	ppb	11.9958	72.33%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.1	-2.5333	µg/L	6.27936	-2.5333	ppb	6.27936	247.88%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	115.8	1.4389	µg/L	0.35384	1.4389	ppb	0.35384	24.59%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-4.7	-0.0691	µg/L	0.15984	-0.0691	ppb	0.15984	231.21%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-407.8	-0.1803	µg/L	0.18425	-0.1803	ppb	0.18425	102.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	9.5	6.4386	µg/L	7.09222	6.4386	ppb	7.09222	110.15%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-2.2	-0.0355	µg/L	0.15761	-0.0355	ppb	0.15761	444.44%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	1.0	0.0318	µg/L	0.51928	0.0318	ppb	0.51928	>999.9%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                7.7      0.1526 µg/L       0.19440      0.1526 ppb        0.19440 127.42%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              113.7      0.7961 µg/L       1.44388      0.7961 ppb        1.44388 181.38%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         0.8      2.5733 µg/L      13.19830      2.5733 ppb       13.19830 512.89%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -3.2     -4.1927 µg/L      22.11794     -4.1927 ppb       22.11794 527.53%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            2.4      16.843 µg/L       14.8640      16.843 ppb        14.8640  88.25%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                7.8      0.0233 µg/L       0.04295      0.0233 ppb        0.04295 184.15%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                3.9      0.4655 µg/L       0.55930      0.4655 ppb        0.55930 120.14%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -3.8     -3.6386 µg/L      12.03727     -3.6386 ppb       12.03727 330.82%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -4.0     -0.1218 µg/L       0.40412     -0.1218 ppb        0.40412 331.90%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 2.1      2.1694 µg/L       6.48701      2.1694 ppb        6.48701 299.02%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -10.0     -2.2643 µg/L       1.24787     -2.2643 ppb        1.24787  55.11%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           0.4      1.3260 µg/L       2.44251      1.3260 ppb        2.44251 184.20%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -3.0     -1.9411 µg/L       0.73499     -1.9411 ppb        0.73499  37.86%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -5.6       -7.88 µg/L         3.087       -7.88 ppb          3.087  39.16%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -26.1     -4.9320 µg/L       8.28586     -4.9320 ppb        8.28586 168.00%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               28.8      0.8613 µg/L       0.16438      0.8613 ppb        0.16438  19.09%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -1.8     -0.7100 µg/L       1.84553     -0.7100 ppb        1.84553 259.93%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                8.5      0.0997 µg/L       0.14534      0.0997 ppb        0.14534 145.80%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -143.0     -0.2716 µg/L       0.16585     -0.2716 ppb        0.16585  61.07%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                0.4      0.5329 µg/L       3.28935      0.5329 ppb        3.28935 617.25%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -28.0     -8.7859 µg/L       9.97592     -8.7859 ppb        9.97592 113.55%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -20.5     -0.1480 µg/L       0.76263     -0.1480 ppb        0.76263 515.33%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               52.2      0.6921 µg/L       0.25275      0.6921 ppb        0.25275  36.52%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 3 **Autosampler Location: 149**
Sample ID: LR1 **Date Collected: 11/7/2013 12:02:11**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21583.6	21583.6	100	%			12:02:44
1	Al 396.153Radial†	-82.5	14.1	25.138	µg/L	25.138	ppb	12:02:44
1	Ca 317.933Radial†	101.0	33.6	22.738	µg/L	22.738	ppb	12:03:05
1	Fe 238.204 Radial†	28.6	-2.1	-7.0419	µg/L	-7.0419	ppb	12:03:05
1	K 766.490 Radial†	613.0	-69.7	-314.73	µg/L	-314.73	ppb	12:02:44
1	Mg 279.077 IEC†	3.7	0.5	3.2237	µg/L	3.2237	ppb	12:03:05
1	Na 589.592 Radial†	519534.2	517265.1	498020	µg/L	498020	ppb	12:02:42
1	Sr 421.552†	36.5	-1.6	-0.0195	µg/L	-0.0195	ppb	12:02:44
1	Sc 361.383	1069629.3	1069629.3	89.383	%			12:04:10
1	Y 371.029	613313.0	613313.0	86.801	%			12:04:10
1	Ag 328.068†	748.6	191.4	1.3578	µg/L	1.3578	ppb	12:04:12
1	As 188.979†	-7.9	-6.2	-14.068	µg/L	-14.068	ppb	12:04:32
1	B 249.677†	573.1	386.0	4.8843	µg/L	4.8843	ppb	12:04:32
1	Ba 233.527†	1446.3	1708.5	24.927	µg/L	24.927	ppb	12:04:32
1	Be 313.107†	-6508.5	-491.9	-0.2175	µg/L	-0.2175	ppb	12:04:12
1	Cd 226.502†	-55.3	28.0	0.4536	µg/L	0.4536	ppb	12:04:32
1	Co 228.616†	-97.4	-3.3	-0.0891	µg/L	-0.0891	ppb	12:04:32
1	Cr 267.716†	106.5	-2.1	-0.0365	µg/L	-0.0365	ppb	12:04:32
1	Cu 324.752†	3652.3	63.7	0.4446	µg/L	0.4446	ppb	12:04:12
1	Mn 257.610†	209.6	36.4	0.1106	µg/L	0.1106	ppb	12:04:32
1	Mo 202.031†	-7.0	1.6	0.1931	µg/L	0.1931	ppb	12:04:32
1	Ni 231.604†	-48.1	-16.1	-0.4944	µg/L	-0.4944	ppb	12:04:32
1	P 214.914†	-69.7	-9.8	-10.032	µg/L	-10.032	ppb	12:04:32
1	Pb 220.353†	100.1	3.6	0.8125	µg/L	0.8125	ppb	12:04:32
1	S 181.975 Axial†	19.2	-3.3	-11.367	µg/L	-11.367	ppb	12:04:32
1	Sb 206.836†	4.6	-1.4	-0.8597	µg/L	-0.8597	ppb	12:04:32
1	Se 196.026†	14.2	-1.0	-1.44	µg/L	-1.44	ppb	12:04:32
1	SiO2†	1825.8	150.2	28.353	µg/L	28.353	ppb	12:04:32
1	Si 251.611†	574.8	288.4	8.6678	µg/L	8.6678	ppb	12:04:32
1	Sn 189.927†	4.2	0.7	0.3051	µg/L	0.3051	ppb	12:04:32
1	Ti 334.940†	1375.0	17.7	0.0379	µg/L	0.0379	ppb	12:04:12
1	Tl 190.801†	-13.6	0.6	0.8514	µg/L	0.8514	ppb	12:04:32
1	U 367.007†	271.8	-16.0	-4.9824	µg/L	-4.9824	ppb	12:04:12
1	V 292.402†	320.4	12.8	0.0915	µg/L	0.0915	ppb	12:04:12
1	Zn 213.857†	569.1	112.1	1.4906	µg/L	1.4906	ppb	12:04:32
2	Sc RADIAL	21634.9	21634.9	101	%			12:03:09
2	Al 396.153Radial†	-113.3	-16.3	-29.194	µg/L	-29.194	ppb	12:03:09
2	Ca 317.933Radial†	102.2	34.5	23.342	µg/L	23.342	ppb	12:03:29
2	Fe 238.204 Radial†	26.8	-3.9	-13.273	µg/L	-13.273	ppb	12:03:29
2	K 766.490 Radial†	700.7	15.9	-205.60	µg/L	-205.60	ppb	12:03:09
2	Mg 279.077 IEC†	4.9	1.7	11.815	µg/L	11.815	ppb	12:03:29
2	Na 589.592 Radial†	527123.2	523575.8	504100	µg/L	504100	ppb	12:03:07
2	Sr 421.552†	73.6	35.1	0.4135	µg/L	0.4135	ppb	12:03:09
2	Sc 361.383	1182880.8	1182880.8	98.847	%			12:04:34
2	Y 371.029	678241.5	678241.5	95.990	%			12:04:34
2	Ag 328.068†	585.5	-53.8	-0.3889	µg/L	-0.3889	ppb	12:04:36
2	As 188.979†	-6.9	-4.2	-9.6354	µg/L	-9.6354	ppb	12:04:57
2	B 249.677†	600.6	352.4	4.4456	µg/L	4.4456	ppb	12:04:57
2	Ba 233.527†	1607.8	1717.0	25.048	µg/L	25.048	ppb	12:04:57
2	Be 313.107†	-7012.6	-304.7	-0.1347	µg/L	-0.1347	ppb	12:04:36
2	Cd 226.502†	-74.9	14.1	0.2293	µg/L	0.2293	ppb	12:04:57
2	Co 228.616†	-85.0	19.6	0.6129	µg/L	0.6129	ppb	12:04:57
2	Cr 267.716†	131.9	12.2	0.2268	µg/L	0.2268	ppb	12:04:57
2	Cu 324.752†	3943.9	-32.5	-0.2266	µg/L	-0.2266	ppb	12:04:36
2	Mn 257.610†	230.2	34.8	0.1052	µg/L	0.1052	ppb	12:04:57
2	Mo 202.031†	-8.7	0.7	0.0805	µg/L	0.0805	ppb	12:04:57
2	Ni 231.604†	-44.0	-6.8	-0.2096	µg/L	-0.2096	ppb	12:04:57
2	P 214.914†	-70.2	-2.9	-2.9628	µg/L	-2.9628	ppb	12:04:57
2	Pb 220.353†	85.4	-22.0	-5.0081	µg/L	-5.0081	ppb	12:04:57

2	S 181.975 Axial†	29.0	4.6	15.669	µg/L	15.669	ppb	12:04:57
2	Sb 206.836†	2.9	-3.6	-2.2660	µg/L	-2.2660	ppb	12:04:57
2	Se 196.026†	14.2	-2.5	-3.54	µg/L	-3.54	ppb	12:04:57
2	SiO2†	1905.4	35.2	6.6505	µg/L	6.6505	ppb	12:04:57
2	Si 251.611†	622.2	274.8	8.2593	µg/L	8.2593	ppb	12:04:57
2	Sn 189.927†	1.5	-2.4	-0.9788	µg/L	-0.9788	ppb	12:04:57
2	Ti 334.940†	1475.4	-28.1	-0.0571	µg/L	-0.0571	ppb	12:04:36
2	Tl 190.801†	-9.5	6.2	8.6083	µg/L	8.6083	ppb	12:04:57
2	U 367.007†	340.0	23.8	7.5043	µg/L	7.5043	ppb	12:04:36
2	V 292.402†	278.1	-64.3	-0.4641	µg/L	-0.4641	ppb	12:04:36
2	Zn 213.857†	580.1	62.2	0.8284	µg/L	0.8284	ppb	12:04:57
3	Sc RADIAL	21358.8	21358.8	99.4	%			12:03:33
3	Al 396.153Radial†	-95.6	0.0	0.0344	µg/L	0.0344	ppb	12:03:33
3	Ca 317.933Radial†	101.1	34.8	23.553	µg/L	23.553	ppb	12:03:53
3	Fe 238.204 Radial†	29.0	-1.4	-4.7525	µg/L	-4.7525	ppb	12:03:53
3	K 766.490 Radial†	586.6	-89.9	-349.40	µg/L	-349.40	ppb	12:03:33
3	Mg 279.077 IEC†	-2.3	-5.5	-38.533	µg/L	-38.533	ppb	12:03:53
3	Na 589.592 Radial†	533160.6	536416.1	516460	µg/L	516460	ppb	12:03:31
3	Sr 421.552†	81.1	43.6	0.5137	µg/L	0.5137	ppb	12:03:33
3	Sc 361.383	1101383.3	1101383.3	92.037	%			12:04:59
3	Y 371.029	631302.3	631302.3	89.347	%			12:04:59
3	Ag 328.068†	553.3	-45.0	-0.3046	µg/L	-0.3046	ppb	12:05:01
3	As 188.979†	-1.9	0.7	1.5438	µg/L	1.5438	ppb	12:05:21
3	B 249.677†	567.8	361.7	4.5842	µg/L	4.5842	ppb	12:05:21
3	Ba 233.527†	1586.3	1813.9	26.466	µg/L	26.466	ppb	12:05:21
3	Be 313.107†	-6427.5	-193.9	-0.0857	µg/L	-0.0857	ppb	12:05:01
3	Cd 226.502†	-66.6	17.5	0.2838	µg/L	0.2838	ppb	12:05:21
3	Co 228.616†	-96.3	1.0	0.0436	µg/L	0.0436	ppb	12:05:21
3	Cr 267.716†	122.2	11.6	0.2287	µg/L	0.2287	ppb	12:05:21
3	Cu 324.752†	3779.5	84.1	0.5848	µg/L	0.5848	ppb	12:05:01
3	Mn 257.610†	217.8	38.6	0.1189	µg/L	0.1189	ppb	12:05:21
3	Mo 202.031†	-15.2	-7.1	-0.8591	µg/L	-0.8591	ppb	12:05:21
3	Ni 231.604†	-34.6	0.2	0.0048	µg/L	0.0048	ppb	12:05:21
3	P 214.914†	-75.5	-13.9	-14.172	µg/L	-14.172	ppb	12:05:21
3	Pb 220.353†	101.8	2.1	0.4944	µg/L	0.4944	ppb	12:05:21
3	S 181.975 Axial†	26.7	4.2	14.637	µg/L	14.637	ppb	12:05:21
3	Sb 206.836†	0.2	-6.3	-4.0489	µg/L	-4.0489	ppb	12:05:21
3	Se 196.026†	8.4	-7.8	-11.0	µg/L	-11.0	ppb	12:05:21
3	SiO2†	1888.0	158.9	29.997	µg/L	29.997	ppb	12:05:21
3	Si 251.611†	595.0	291.9	8.7860	µg/L	8.7860	ppb	12:05:21
3	Sn 189.927†	0.0	-3.9	-1.5679	µg/L	-1.5679	ppb	12:05:21
3	Ti 334.940†	1292.6	-116.2	-0.2162	µg/L	-0.2162	ppb	12:05:01
3	Tl 190.801†	-10.8	4.1	5.6484	µg/L	5.6484	ppb	12:05:21
3	U 367.007†	254.1	-44.0	-13.750	µg/L	-13.750	ppb	12:05:01
3	V 292.402†	415.6	105.9	0.7526	µg/L	0.7526	ppb	12:05:01
3	Zn 213.857†	567.4	91.9	1.2194	µg/L	1.2194	ppb	12:05:21

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1117964.5	93.422	%	4.8817				5.23%
Sc RADIAL	21525.7	100	%	0.7				0.68%
Y 371.029	640952.3	90.713	%	4.7444				5.23%
Ag 328.068†	30.9	0.2214	µg/L	0.98503	0.2214	ppb	0.98503	444.82%
Al 396.153Radial†	-0.8	-1.3405	µg/L	27.19200	-1.3405	ppb	27.19200	>999.9%
As 188.979†	-3.2	-7.3864	µg/L	8.04499	-7.3864	ppb	8.04499	108.92%
B 249.677†	366.7	4.6380	µg/L	0.22424	4.6380	ppb	0.22424	4.83%
Ba 233.527†	1746.5	25.480	µg/L	0.8559	25.480	ppb	0.8559	3.36%
Be 313.107†	-330.2	-0.1460	µg/L	0.06661	-0.1460	ppb	0.06661	45.63%
Ca 317.933Radial†	34.3	23.211	µg/L	0.4231	23.211	ppb	0.4231	1.82%
Cd 226.502†	19.9	0.3222	µg/L	0.11698	0.3222	ppb	0.11698	36.30%
Co 228.616†	5.8	0.1892	µg/L	0.37292	0.1892	ppb	0.37292	197.16%
Cr 267.716†	7.2	0.1397	µg/L	0.15252	0.1397	ppb	0.15252	109.21%
Cu 324.752†	38.4	0.2676	µg/L	0.43367	0.2676	ppb	0.43367	162.06%
Fe 238.204 Radial†	-2.5	-8.3558	µg/L	4.40958	-8.3558	ppb	4.40958	52.77%
K 766.490 Radial†	-47.9	-289.91	µg/L	75.042	-289.91	ppb	75.042	25.88%
Concentration less than lower limit for K 766.490 Radial.								
Mg 279.077 IEC†	-1.1	-7.8316	µg/L	26.93323	-7.8316	ppb	26.93323	343.90%
Mn 257.610†	36.6	0.1116	µg/L	0.00690	0.1116	ppb	0.00690	6.18%
Mo 202.031†	-1.6	-0.1952	µg/L	0.57774	-0.1952	ppb	0.57774	296.02%

Na 589.592 Radial†	525752.3	506190	µg/L	9396.2	506190	ppb	9396.2	1.86%
Concentration greater than upper limit for Na 589.592 Radial.								
Ni 231.604†	-7.6	-0.2331	µg/L	0.25041	-0.2331	ppb	0.25041	107.44%
P 214.914†	-8.9	-9.0556	µg/L	5.66789	-9.0556	ppb	5.66789	62.59%
Pb 220.353†	-5.4	-1.2337	µg/L	3.27257	-1.2337	ppb	3.27257	265.26%
S 181.975 Axial†	1.8	6.3131	µg/L	15.32035	6.3131	ppb	15.32035	242.67%
Sb 206.836†	-3.8	-2.3915	µg/L	1.59829	-2.3915	ppb	1.59829	66.83%
Se 196.026†	-3.8	-5.32	µg/L	5.014	-5.32	ppb	5.014	94.31%
SiO2†	114.8	21.667	µg/L	13.0305	21.667	ppb	13.0305	60.14%
Si 251.611†	285.0	8.5710	µg/L	0.27636	8.5710	ppb	0.27636	3.22%
Sn 189.927†	-1.9	-0.7472	µg/L	0.95777	-0.7472	ppb	0.95777	128.18%
Sr 421.552†	25.7	0.3026	µg/L	0.28341	0.3026	ppb	0.28341	93.67%
Ti 334.940†	-42.2	-0.0784	µg/L	0.12839	-0.0784	ppb	0.12839	163.68%
Tl 190.801†	3.6	5.0360	µg/L	3.91451	5.0360	ppb	3.91451	77.73%
U 367.007†	-12.1	-3.7428	µg/L	10.68142	-3.7428	ppb	10.68142	285.38%
V 292.402†	18.1	0.1266	µg/L	0.60911	0.1266	ppb	0.60911	480.96%
Zn 213.857†	88.7	1.1795	µg/L	0.33293	1.1795	ppb	0.33293	28.23%

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Sequence No.: 4 **Autosampler Location: 150**
Sample ID: LR2 **Date Collected: 11/7/2013 12:05:29**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22166.3	22166.3	103	%			12:06:17
1	Al 396.153Radial†	-84.0	14.8	26.485	µg/L	26.485	ppb	12:06:17
1	Ca 317.933Radial†	108.9	38.6	26.134	µg/L	26.134	ppb	12:06:37
1	Fe 238.204 Radial†	25.5	-5.8	-19.663	µg/L	-19.663	ppb	12:06:37
1	K 766.490 Radial†	686.0	-15.0	-19.655	µg/L	-19.655	ppb	12:06:17
1	Mg 279.077 IEC†	2.4	-0.8	-5.8831	µg/L	-5.8831	ppb	12:06:37
1	Na 589.592 Radial†	154.3	191.4	184.29	µg/L	184.29	ppb	12:06:17
1	Sr 421.552†	36.5	-2.6	-0.0311	µg/L	-0.0311	ppb	12:06:17
1	Sc 361.383	1222482.9	1222482.9	102.16	%			12:08:15
1	Y 371.029	712555.8	712555.8	100.85	%			12:08:15
1	Ag 328.068†	859.8	195.4	1.3969	µg/L	1.3969	ppb	12:08:17
1	As 188.979†	-2.0	0.7	1.6980	µg/L	1.6980	ppb	12:08:37
1	B 249.677†	352.3	89.7	1.2030	µg/L	1.2030	ppb	12:08:37
1	Ba 233.527†	-77.8	14.3	0.2055	µg/L	0.2055	ppb	12:08:37
1	Be 313.107†	-6914.1	21.6	0.0095	µg/L	0.0095	ppb	12:08:17
1	Cd 226.502†	-118.0	-25.7	-0.4125	µg/L	-0.4125	ppb	12:08:37
1	Co 228.616†	-97.3	10.3	0.3132	µg/L	0.3132	ppb	12:08:37
1	Cr 267.716†	135.8	11.7	0.2343	µg/L	0.2343	ppb	12:08:37
1	Cu 324.752†	2214738.0	2163968.4	15226	µg/L	15226	ppb	12:08:15
1	Mn 257.610†	204.3	2.0	0.0057	µg/L	0.0057	ppb	12:08:37
1	Mo 202.031†	-6.3	3.3	0.3960	µg/L	0.3960	ppb	12:08:37
1	Ni 231.604†	-47.7	-8.9	-0.2744	µg/L	-0.2744	ppb	12:08:37
1	P 214.914†	-9.6	58.8	-87.771	µg/L	-87.771	ppb	12:08:17
1	Pb 220.353†	131.0	19.8	0.2811	µg/L	0.2811	ppb	12:08:37
1	S 181.975 Axial†	26.7	1.4	4.9547	µg/L	4.9547	ppb	12:08:37
1	Sb 206.836†	2.2	-4.4	-2.7719	µg/L	-2.7719	ppb	12:08:37
1	Se 196.026†	4.4	-12.5	-17.7	µg/L	-17.7	ppb	12:08:37
1	SiO2†	1846.6	-84.8	-16.010	µg/L	-16.010	ppb	12:08:37
1	Si 251.611†	408.5	45.2	1.3519	µg/L	1.3519	ppb	12:08:37
1	Sn 189.927†	-1.3	-5.2	-2.0984	µg/L	-2.0984	ppb	12:08:37
1	Ti 334.940†	2213.8	646.4	1.2609	µg/L	1.2609	ppb	12:08:17
1	Tl 190.801†	-15.5	0.7	0.9570	µg/L	0.9570	ppb	12:08:37
1	U 367.007†	261.7	-64.0	-19.927	µg/L	-19.927	ppb	12:08:17
1	V 292.402†	210.5	-139.5	-1.0262	µg/L	-1.0262	ppb	12:08:17
1	Zn 213.857†	1948.0	1382.2	4.7189	µg/L	4.7189	ppb	12:08:37
2	Sc RADIAL	22164.9	22164.9	103	%			12:06:57
2	Al 396.153Radial†	-90.8	8.2	14.734	µg/L	14.734	ppb	12:06:57
2	Ca 317.933Radial†	100.1	30.1	20.370	µg/L	20.370	ppb	12:07:17
2	Fe 238.204 Radial†	30.5	-1.0	-3.2344	µg/L	-3.2344	ppb	12:07:17
2	K 766.490 Radial†	697.9	-3.5	-4.5651	µg/L	-4.5651	ppb	12:06:57
2	Mg 279.077 IEC†	0.7	-2.6	-17.973	µg/L	-17.973	ppb	12:07:17
2	Na 589.592 Radial†	51.3	91.6	88.180	µg/L	88.180	ppb	12:06:57
2	Sr 421.552†	49.9	10.4	0.1227	µg/L	0.1227	ppb	12:06:57
2	Sc 361.383	1213296.6	1213296.6	101.39	%			12:08:39
2	Y 371.029	707787.7	707787.7	100.17	%			12:08:39
2	Ag 328.068†	934.3	275.3	1.9577	µg/L	1.9577	ppb	12:08:41
2	As 188.979†	-5.3	-2.5	-5.6949	µg/L	-5.6949	ppb	12:09:01
2	B 249.677†	318.2	58.6	0.7464	µg/L	0.7464	ppb	12:09:01
2	Ba 233.527†	-87.5	4.1	0.0580	µg/L	0.0580	ppb	12:09:01
2	Be 313.107†	-6810.5	72.5	0.0320	µg/L	0.0320	ppb	12:08:41
2	Cd 226.502†	-90.8	0.3	0.0049	µg/L	0.0049	ppb	12:09:01
2	Co 228.616†	-103.2	3.8	0.1138	µg/L	0.1138	ppb	12:09:01
2	Cr 267.716†	134.3	11.2	0.2224	µg/L	0.2224	ppb	12:09:01
2	Cu 324.752†	2190581.3	2156557.2	15174	µg/L	15174	ppb	12:08:39
2	Mn 257.610†	219.6	18.5	0.0569	µg/L	0.0569	ppb	12:09:01
2	Mo 202.031†	-15.4	-5.8	-0.6983	µg/L	-0.6983	ppb	12:09:01
2	Ni 231.604†	-32.0	6.1	0.1891	µg/L	0.1891	ppb	12:09:01
2	P 214.914†	25.6	93.4	-51.844	µg/L	-51.844	ppb	12:08:41
2	Pb 220.353†	126.8	16.6	-0.4349	µg/L	-0.4349	ppb	12:09:01

2	S 181.975 Axial†	26.8	1.7	5.7911	µg/L	5.7911	ppb	12:09:01
2	Sb 206.836†	-0.4	-7.0	-4.4403	µg/L	-4.4403	ppb	12:09:01
2	Se 196.026†	12.8	-4.3	-6.03	µg/L	-6.03	ppb	12:09:01
2	SiO2†	1809.8	-107.4	-20.267	µg/L	-20.267	ppb	12:09:01
2	Si 251.611†	390.0	30.0	0.9107	µg/L	0.9107	ppb	12:09:01
2	Sn 189.927†	1.1	-2.9	-1.1603	µg/L	-1.1603	ppb	12:09:01
2	Ti 334.940†	2069.6	520.5	1.0149	µg/L	1.0149	ppb	12:08:41
2	Tl 190.801†	-16.9	-0.9	-1.2053	µg/L	-1.2053	ppb	12:09:01
2	U 367.007†	275.4	-48.5	-15.163	µg/L	-15.163	ppb	12:08:41
2	V 292.402†	251.3	-97.8	-0.7302	µg/L	-0.7302	ppb	12:08:41
2	Zn 213.857†	1925.5	1374.5	4.6583	µg/L	4.6583	ppb	12:09:01
3	Sc RADIAL	21586.8	21586.8	100	%			12:07:37
3	Al 396.153Radial†	-88.2	8.4	15.048	µg/L	15.048	ppb	12:07:37
3	Ca 317.933Radial†	108.0	40.5	27.415	µg/L	27.415	ppb	12:07:57
3	Fe 238.204 Radial†	29.3	-1.4	-4.6010	µg/L	-4.6010	ppb	12:07:57
3	K 766.490 Radial†	615.7	-67.1	-87.644	µg/L	-87.644	ppb	12:07:37
3	Mg 279.077 IEC†	-1.0	-4.2	-29.244	µg/L	-29.244	ppb	12:07:57
3	Na 589.592 Radial†	38.2	79.9	76.909	µg/L	76.909	ppb	12:07:37
3	Sr 421.552†	46.6	8.4	0.0984	µg/L	0.0984	ppb	12:07:37
3	Sc 361.383	1222012.2	1222012.2	102.12	%			12:09:03
3	Y 371.029	712489.1	712489.1	100.84	%			12:09:03
3	Ag 328.068†	764.8	102.8	0.7343	µg/L	0.7343	ppb	12:09:05
3	As 188.979†	-1.6	1.2	2.6759	µg/L	2.6759	ppb	12:09:25
3	B 249.677†	312.4	50.7	0.6873	µg/L	0.6873	ppb	12:09:25
3	Ba 233.527†	-90.6	1.7	0.0243	µg/L	0.0243	ppb	12:09:25
3	Be 313.107†	-6847.1	84.5	0.0374	µg/L	0.0374	ppb	12:09:05
3	Cd 226.502†	-99.1	-7.2	-0.1163	µg/L	-0.1163	ppb	12:09:25
3	Co 228.616†	-100.0	7.6	0.2321	µg/L	0.2321	ppb	12:09:25
3	Cr 267.716†	149.8	25.5	0.4896	µg/L	0.4896	ppb	12:09:25
3	Cu 324.752†	2207371.0	2157589.2	15181	µg/L	15181	ppb	12:09:03
3	Mn 257.610†	201.9	-0.4	-0.0001	µg/L	-0.0001	ppb	12:09:25
3	Mo 202.031†	-6.0	3.5	0.4258	µg/L	0.4258	ppb	12:09:25
3	Ni 231.604†	-39.3	-0.7	-0.0215	µg/L	-0.0215	ppb	12:09:25
3	P 214.914†	11.5	79.4	-66.296	µg/L	-66.296	ppb	12:09:05
3	Pb 220.353†	132.7	21.5	0.6690	µg/L	0.6690	ppb	12:09:25
3	S 181.975 Axial†	23.2	-2.0	-7.0435	µg/L	-7.0435	ppb	12:09:25
3	Sb 206.836†	-0.4	-6.9	-4.3958	µg/L	-4.3958	ppb	12:09:25
3	Se 196.026†	10.8	-6.2	-8.85	µg/L	-8.85	ppb	12:09:25
3	SiO2†	1800.7	-129.1	-24.351	µg/L	-24.351	ppb	12:09:25
3	Si 251.611†	366.4	4.2	0.1196	µg/L	0.1196	ppb	12:09:25
3	Sn 189.927†	5.8	1.7	0.7097	µg/L	0.7097	ppb	12:09:25
3	Ti 334.940†	2063.0	499.5	0.9717	µg/L	0.9717	ppb	12:09:05
3	Tl 190.801†	-11.0	5.0	6.9711	µg/L	6.9711	ppb	12:09:25
3	U 367.007†	296.0	-30.3	-9.4623	µg/L	-9.4623	ppb	12:09:05
3	V 292.402†	324.1	-28.2	-0.2064	µg/L	-0.2064	ppb	12:09:05
3	Zn 213.857†	1908.0	1343.8	4.2461	µg/L	4.2461	ppb	12:09:25

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1219263.9	101.89	%	0.432				0.42%
Sc RADIAL	21972.7	102	%	1.6				1.52%
Y 371.029	710944.2	100.62	%	0.387				0.38%
Ag 328.068†	191.2	1.3629	µg/L	0.61241	1.3629	ppb	0.61241	44.93%
Al 396.153Radial†	10.5	18.756	µg/L	6.6956	18.756	ppb	6.6956	35.70%
As 188.979†	-0.2	-0.4403	µg/L	4.57681	-0.4403	ppb	4.57681	>999.9%
B 249.677†	66.3	0.8789	µg/L	0.28225	0.8789	ppb	0.28225	32.11%
Ba 233.527†	6.7	0.0960	µg/L	0.09632	0.0960	ppb	0.09632	100.39%
Be 313.107†	59.5	0.0263	µg/L	0.01477	0.0263	ppb	0.01477	56.11%
Ca 317.933Radial†	36.4	24.640	µg/L	3.7528	24.640	ppb	3.7528	15.23%
Cd 226.502†	-10.9	-0.1747	µg/L	0.21473	-0.1747	ppb	0.21473	122.93%
Co 228.616†	7.3	0.2197	µg/L	0.10030	0.2197	ppb	0.10030	45.66%
Cr 267.716†	16.1	0.3154	µg/L	0.15090	0.3154	ppb	0.15090	47.84%
Cu 324.752†	2159371.6	15194	µg/L	28.2	15194	ppb	28.2	0.19%
Fe 238.204 Radial†	-2.7	-9.1661	µg/L	9.11620	-9.1661	ppb	9.11620	99.46%
K 766.490 Radial†	-28.5	-37.288	µg/L	44.2573	-37.288	ppb	44.2573	118.69%
Mg 279.077 IEC†	-2.5	-17.700	µg/L	11.6828	-17.700	ppb	11.6828	66.01%
Mn 257.610†	6.7	0.0209	µg/L	0.03137	0.0209	ppb	0.03137	150.39%
Mo 202.031†	0.3	0.0412	µg/L	0.64055	0.0412	ppb	0.64055	>999.9%
Na 589.592 Radial†	121.0	116.46	µg/L	59.014	116.46	ppb	59.014	50.67%

Ni 231.604†	-1.2	-0.0356	µg/L	0.23209	-0.0356	ppb	0.23209	652.16%
P 214.914†	77.2	-68.637	µg/L	18.0777	-68.637	ppb	18.0777	26.34%
Pb 220.353†	19.3	0.1717	µg/L	0.56003	0.1717	ppb	0.56003	326.11%
S 181.975 Axial†	0.4	1.2341	µg/L	7.18081	1.2341	ppb	7.18081	581.87%
Sb 206.836†	-6.1	-3.8693	µg/L	0.95067	-3.8693	ppb	0.95067	24.57%
Se 196.026†	-7.7	-10.9	µg/L	6.09	-10.9	ppb	6.09	56.09%
SiO2†	-107.1	-20.209	µg/L	4.1707	-20.209	ppb	4.1707	20.64%
Si 251.611†	26.5	0.7941	µg/L	0.62437	0.7941	ppb	0.62437	78.63%
Sn 189.927†	-2.1	-0.8497	µg/L	1.42961	-0.8497	ppb	1.42961	168.25%
Sr 421.552†	5.4	0.0633	µg/L	0.08268	0.0633	ppb	0.08268	130.55%
Ti 334.940†	555.5	1.0825	µg/L	0.15600	1.0825	ppb	0.15600	14.41%
Tl 190.801†	1.6	2.2409	µg/L	4.23672	2.2409	ppb	4.23672	189.06%
U 367.007†	-47.6	-14.851	µg/L	5.2393	-14.851	ppb	5.2393	35.28%
V 292.402†	-88.5	-0.6542	µg/L	0.41515	-0.6542	ppb	0.41515	63.46%
Zn 213.857†	1366.8	4.5411	µg/L	0.25728	4.5411	ppb	0.25728	5.67%

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Sequence No.: 5 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 12:09:34**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22306.2	22306.2	104	%			12:10:06
1	Al 396.153Radial†	3186.5	3165.8	5657.6	µg/L	5657.6	ppb	12:10:26
1	Ca 317.933Radial†	7556.7	7212.4	4883.8	µg/L	4883.8	ppb	12:10:26
1	Fe 238.204 Radial†	1551.4	1464.0	4950.9	µg/L	4950.9	ppb	12:10:26
1	K 766.490 Radial†	4544.2	3697.4	4835.1	µg/L	4835.1	ppb	12:10:06
1	Mg 279.077 IEC†	748.6	717.9	5040.5	µg/L	5040.5	ppb	12:10:26
1	Na 589.592 Radial†	13343.4	12895.6	12416	µg/L	12416	ppb	12:10:06
1	Sr 421.552†	42246.3	40657.9	479.04	µg/L	479.04	ppb	12:10:06
1	Sc 361.383	1226358.5	1226358.5	102.48	%			12:11:27
1	Y 371.029	710403.5	710403.5	100.54	%			12:11:27
1	Ag 328.068†	74008.9	71571.7	507.38	µg/L	507.38	ppb	12:11:30
1	As 188.979†	215.9	213.4	492.98	µg/L	492.98	ppb	12:11:50
1	B 249.677†	40443.8	39209.7	470.94	µg/L	470.94	ppb	12:11:30
1	Ba 233.527†	34638.3	33890.4	495.75	µg/L	495.75	ppb	12:11:30
1	Be 313.107†	1126100.7	1105637.8	488.88	µg/L	488.88	ppb	12:11:27
1	Cd 226.502†	30954.1	30294.8	489.14	µg/L	489.14	ppb	12:11:30
1	Co 228.616†	16485.4	16192.0	494.36	µg/L	494.36	ppb	12:11:30
1	Cr 267.716†	26855.7	26084.6	494.56	µg/L	494.56	ppb	12:11:30
1	Cu 324.752†	77010.9	71124.8	501.59	µg/L	501.59	ppb	12:11:30
1	Mn 257.610†	168154.7	163887.2	498.95	µg/L	498.95	ppb	12:11:30
1	Mo 202.031†	4157.3	4066.1	489.65	µg/L	489.65	ppb	12:11:50
1	Ni 231.604†	16425.2	16065.5	494.64	µg/L	494.64	ppb	12:11:30
1	P 214.914†	2289.9	2302.6	2341.7	µg/L	2341.7	ppb	12:11:50
1	Pb 220.353†	2286.3	2122.5	483.19	µg/L	483.19	ppb	12:11:50
1	S 181.975 Axial†	317.0	284.6	975.11	µg/L	975.11	ppb	12:11:50
1	Sb 206.836†	774.4	749.1	477.07	µg/L	477.07	ppb	12:11:50
1	Se 196.026†	356.1	330.7	470	µg/L	470	ppb	12:11:50
1	SiO2†	29872.9	27257.5	5154.3	µg/L	5154.3	ppb	12:11:30
1	Si 251.611†	82581.4	80228.2	2406.1	µg/L	2406.1	ppb	12:11:30
1	Sn 189.927†	1206.6	1173.5	475.05	µg/L	475.05	ppb	12:11:50
1	Ti 334.940†	263774.0	255869.7	494.28	µg/L	494.28	ppb	12:11:30
1	Tl 190.801†	350.0	357.4	490.01	µg/L	490.01	ppb	12:11:50
1	U 367.007†	2017.8	1648.8	487.06	µg/L	487.06	ppb	12:11:30
1	V 292.402†	69682.5	67650.5	500.25	µg/L	500.25	ppb	12:11:30
1	Zn 213.857†	38689.0	37228.0	490.33	µg/L	490.33	ppb	12:11:30
2	Sc RADIAL	22333.1	22333.1	104	%			12:10:28
2	Al 396.153Radial†	3154.3	3131.1	5595.4	µg/L	5595.4	ppb	12:10:48
2	Ca 317.933Radial†	7566.9	7213.5	4884.5	µg/L	4884.5	ppb	12:10:48
2	Fe 238.204 Radial†	1546.8	1457.6	4929.2	µg/L	4929.2	ppb	12:10:48
2	K 766.490 Radial†	4939.2	4072.2	5324.6	µg/L	5324.6	ppb	12:10:28
2	Mg 279.077 IEC†	754.7	723.0	5075.9	µg/L	5075.9	ppb	12:10:48
2	Na 589.592 Radial†	13853.4	13370.8	12873	µg/L	12873	ppb	12:10:28
2	Sr 421.552†	44423.2	42703.4	503.14	µg/L	503.14	ppb	12:10:28
2	Sc 361.383	1228434.7	1228434.7	102.65	%			12:11:52
2	Y 371.029	710791.5	710791.5	100.60	%			12:11:52
2	Ag 328.068†	75143.6	72554.9	514.36	µg/L	514.36	ppb	12:11:54
2	As 188.979†	225.7	222.5	513.78	µg/L	513.78	ppb	12:12:14
2	B 249.677†	40779.2	39469.8	474.10	µg/L	474.10	ppb	12:11:54
2	Ba 233.527†	35090.0	34273.3	501.35	µg/L	501.35	ppb	12:11:54
2	Be 313.107†	1117125.4	1095037.3	484.20	µg/L	484.20	ppb	12:11:52
2	Cd 226.502†	31482.0	30758.0	496.63	µg/L	496.63	ppb	12:11:54
2	Co 228.616†	16780.9	16452.7	502.33	µg/L	502.33	ppb	12:11:54
2	Cr 267.716†	27073.1	26252.0	497.73	µg/L	497.73	ppb	12:11:54
2	Cu 324.752†	77982.1	71943.9	507.35	µg/L	507.35	ppb	12:11:54
2	Mn 257.610†	170752.3	166140.3	505.80	µg/L	505.80	ppb	12:11:54
2	Mo 202.031†	4248.6	4148.2	499.52	µg/L	499.52	ppb	12:12:14
2	Ni 231.604†	16685.7	16292.1	501.62	µg/L	501.62	ppb	12:11:54
2	P 214.914†	2360.6	2367.7	2408.2	µg/L	2408.2	ppb	12:12:14
2	Pb 220.353†	2333.0	2164.3	492.70	µg/L	492.70	ppb	12:12:14

2	S 181.975 Axial†	317.1	284.2	973.66 µg/L	973.66 ppb	12:12:14
2	Sb 206.836†	801.6	774.3	493.18 µg/L	493.18 ppb	12:12:14
2	Se 196.026†	375.8	349.3	496 µg/L	496 ppb	12:12:14
2	SiO2†	30214.2	27540.7	5207.8 µg/L	5207.8 ppb	12:11:54
2	Si 251.611†	83672.5	81154.9	2433.8 µg/L	2433.8 ppb	12:11:54
2	Sn 189.927†	1228.4	1192.7	482.82 µg/L	482.82 ppb	12:12:14
2	Ti 334.940†	267428.3	258994.5	500.32 µg/L	500.32 ppb	12:11:54
2	Tl 190.801†	348.9	355.7	487.55 µg/L	487.55 ppb	12:12:14
2	U 367.007†	2002.5	1630.5	481.43 µg/L	481.43 ppb	12:11:54
2	V 292.402†	70666.4	68494.0	506.51 µg/L	506.51 ppb	12:11:54
2	Zn 213.857†	39084.7	37549.8	494.56 µg/L	494.56 ppb	12:11:54
3	Sc RADIAL	21643.2	21643.2	101 %		12:10:50
3	Al 396.153Radial†	3105.2	3179.0	5681.2 µg/L	5681.2 ppb	12:11:10
3	Ca 317.933Radial†	7429.2	7308.7	4949.0 µg/L	4949.0 ppb	12:11:10
3	Fe 238.204 Radial†	1518.1	1476.6	4993.8 µg/L	4993.8 ppb	12:11:10
3	K 766.490 Radial†	4633.8	3920.5	5126.4 µg/L	5126.4 ppb	12:10:50
3	Mg 279.077 IEC†	744.4	735.8	5166.1 µg/L	5166.1 ppb	12:11:10
3	Na 589.592 Radial†	13539.6	13484.1	12982 µg/L	12982 ppb	12:10:50
3	Sr 421.552†	43481.4	43130.6	508.18 µg/L	508.18 ppb	12:10:50
3	Sc 361.383	1205548.1	1205548.1	100.74 %		12:12:16
3	Y 371.029	698715.4	698715.4	98.888 %		12:12:16
3	Ag 328.068†	73441.9	72255.5	512.23 µg/L	512.23 ppb	12:12:18
3	As 188.979†	220.4	221.5	511.47 µg/L	511.47 ppb	12:12:38
3	B 249.677†	40106.0	39555.7	474.99 µg/L	474.99 ppb	12:12:18
3	Ba 233.527†	34225.8	34064.4	498.30 µg/L	498.30 ppb	12:12:18
3	Be 313.107†	1108988.7	1107620.2	489.76 µg/L	489.76 ppb	12:12:16
3	Cd 226.502†	30584.5	30449.4	491.63 µg/L	491.63 ppb	12:12:18
3	Co 228.616†	16302.0	16287.7	497.29 µg/L	497.29 ppb	12:12:18
3	Cr 267.716†	26467.5	26151.5	495.83 µg/L	495.83 ppb	12:12:18
3	Cu 324.752†	76420.8	71836.2	506.60 µg/L	506.60 ppb	12:12:18
3	Mn 257.610†	166817.7	165392.4	503.52 µg/L	503.52 ppb	12:12:18
3	Mo 202.031†	4212.0	4190.5	504.62 µg/L	504.62 ppb	12:12:38
3	Ni 231.604†	16301.5	16219.3	499.38 µg/L	499.38 ppb	12:12:18
3	P 214.914†	2350.3	2401.2	2442.3 µg/L	2442.3 ppb	12:12:38
3	Pb 220.353†	2326.1	2200.6	500.95 µg/L	500.95 ppb	12:12:38
3	S 181.975 Axial†	312.5	285.5	978.09 µg/L	978.09 ppb	12:12:38
3	Sb 206.836†	796.7	784.4	499.63 µg/L	499.63 ppb	12:12:38
3	Se 196.026†	378.8	359.2	510 µg/L	510 ppb	12:12:38
3	SiO2†	29630.3	27519.9	5203.9 µg/L	5203.9 ppb	12:12:18
3	Si 251.611†	81726.1	80770.3	2422.2 µg/L	2422.2 ppb	12:12:18
3	Sn 189.927†	1220.5	1207.6	488.85 µg/L	488.85 ppb	12:12:38
3	Ti 334.940†	261659.8	258214.3	498.81 µg/L	498.81 ppb	12:12:18
3	Tl 190.801†	356.2	369.4	506.69 µg/L	506.69 ppb	12:12:38
3	U 367.007†	1974.1	1639.4	483.88 µg/L	483.88 ppb	12:12:18
3	V 292.402†	68972.2	68119.2	503.85 µg/L	503.85 ppb	12:12:18
3	Zn 213.857†	38346.1	37539.4	494.43 µg/L	494.43 ppb	12:12:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1220113.8	101.96	%	1.058				1.04%
Sc RADIAL	22094.2	103	%	1.8				1.77%
Y 371.029	706636.8	100.01	%	0.971				0.97%
Ag 328.068†	72127.4	511.32	µg/L	3.580	511.32	ppb	3.580	0.70%
QC value within limits for Ag 328.068 Recovery = 102.26%								
Al 396.153Radial†	3158.6	5644.7	µg/L	44.29	5644.7	ppb	44.29	0.78%
QC value greater than the upper limit for Al 396.153Radial Recovery = 112.89%								
As 188.979†	219.2	506.08	µg/L	11.403	506.08	ppb	11.403	2.25%
QC value within limits for As 188.979 Recovery = 101.22%								
B 249.677†	39411.7	473.35	µg/L	2.129	473.35	ppb	2.129	0.45%
QC value within limits for B 249.677 Recovery = 94.67%								
Ba 233.527†	34076.0	498.47	µg/L	2.805	498.47	ppb	2.805	0.56%
QC value within limits for Ba 233.527 Recovery = 99.69%								
Be 313.107†	1102765.1	487.61	µg/L	2.992	487.61	ppb	2.992	0.61%
QC value within limits for Be 313.107 Recovery = 97.52%								
Ca 317.933Radial†	7244.9	4905.7	µg/L	37.45	4905.7	ppb	37.45	0.76%
QC value within limits for Ca 317.933Radial Recovery = 98.11%								
Cd 226.502†	30500.7	492.47	µg/L	3.815	492.47	ppb	3.815	0.77%
QC value within limits for Cd 226.502 Recovery = 98.49%								
Co 228.616†	16310.8	497.99	µg/L	4.028	497.99	ppb	4.028	0.81%

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   QC value within limits for Co 228.616  Recovery = 99.60%
Cr 267.716†            26162.7      496.04 µg/L         1.599      496.04 ppb          1.599   0.32%
   QC value within limits for Cr 267.716  Recovery = 99.21%
Cu 324.752†            71635.0      505.18 µg/L         3.131      505.18 ppb          3.131   0.62%
   QC value within limits for Cu 324.752  Recovery = 101.04%
Fe 238.204 Radial†      1466.1      4957.9 µg/L         32.86      4957.9 ppb          32.86   0.66%
   QC value within limits for Fe 238.204 Radial  Recovery = 99.16%
K 766.490 Radial†       3896.7      5095.3 µg/L        246.24      5095.3 ppb         246.24   4.83%
   QC value within limits for K 766.490 Radial  Recovery = 101.91%
Mg 279.077 IEC†          725.6      5094.2 µg/L         64.79      5094.2 ppb          64.79   1.27%
   QC value within limits for Mg 279.077 IEC  Recovery = 101.88%
Mn 257.610†           165140.0      502.76 µg/L         3.493      502.76 ppb          3.493   0.69%
   QC value within limits for Mn 257.610  Recovery = 100.55%
Mo 202.031†             4134.9      497.93 µg/L         7.613      497.93 ppb          7.613   1.53%
   QC value within limits for Mo 202.031  Recovery = 99.59%
Na 589.592 Radial†     13250.1       12757 µg/L         300.6       12757 ppb          300.6   2.36%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 127.57%
Ni 231.604†            16192.3      498.55 µg/L         3.563      498.55 ppb          3.563   0.71%
   QC value within limits for Ni 231.604  Recovery = 99.71%
P 214.914†              2357.2      2397.4 µg/L         51.18      2397.4 ppb          51.18   2.13%
   QC value within limits for P 214.914  Recovery = 95.90%
Pb 220.353†             2162.5      492.28 µg/L         8.891      492.28 ppb          8.891   1.81%
   QC value within limits for Pb 220.353  Recovery = 98.46%
S 181.975 Axial†         284.8      975.62 µg/L         2.256      975.62 ppb          2.256   0.23%
   QC value within limits for S 181.975 Axial  Recovery = 97.56%
Sb 206.836†              769.3      489.96 µg/L        11.621      489.96 ppb         11.621   2.37%
   QC value within limits for Sb 206.836  Recovery = 97.99%
Se 196.026†              346.4         492 µg/L          20.5         492 ppb           20.5   4.17%
   QC value within limits for Se 196.026  Recovery = 98.36%
SiO2†                  27439.4      5188.7 µg/L         29.82      5188.7 ppb          29.82   0.57%
   QC value within limits for SiO2  Recovery = 97.03%
Si 251.611†            80717.8      2420.7 µg/L         13.92      2420.7 ppb          13.92   0.58%
   QC value within limits for Si 251.611  Recovery = 96.83%
Sn 189.927†             1191.3      482.24 µg/L         6.917      482.24 ppb          6.917   1.43%
   QC value within limits for Sn 189.927  Recovery = 96.45%
Sr 421.552†            42164.0      496.79 µg/L        15.573      496.79 ppb         15.573   3.13%
   QC value within limits for Sr 421.552  Recovery = 99.36%
Ti 334.940†           257692.8      497.80 µg/L         3.144      497.80 ppb          3.144   0.63%
   QC value within limits for Ti 334.940  Recovery = 99.56%
Tl 190.801†              360.8      494.75 µg/L        10.413      494.75 ppb         10.413   2.10%
   QC value within limits for Tl 190.801  Recovery = 98.95%
U 367.007†              1639.6      484.12 µg/L         2.822      484.12 ppb          2.822   0.58%
   QC value within limits for U 367.007  Recovery = 96.82%
V 292.402†             68087.9      503.54 µg/L         3.140      503.54 ppb          3.140   0.62%
   QC value within limits for V 292.402  Recovery = 100.71%
Zn 213.857†            37439.1      493.11 µg/L         2.404      493.11 ppb          2.404   0.49%
   QC value within limits for Zn 213.857  Recovery = 98.62%
QC Failed.  Continue with analysis.
```

Sequence No.: 6 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 12:12:47**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21438.3	21438.3	99.8	%			12:13:34
1	Al 396.153Radial†	-90.9	5.2	9.2475	µg/L	9.2475	ppb	12:13:34
1	Ca 317.933Radial†	70.5	3.7	2.4923	µg/L	2.4923	ppb	12:13:54
1	Fe 238.204 Radial†	28.5	-1.9	-6.5716	µg/L	-6.5716	ppb	12:13:54
1	K 766.490 Radial†	617.2	-61.3	-80.133	µg/L	-80.133	ppb	12:13:34
1	Mg 279.077 IEC†	-5.2	-8.4	-58.966	µg/L	-58.966	ppb	12:13:54
1	Na 589.592 Radial†	5.3	47.2	45.420	µg/L	45.420	ppb	12:13:34
1	Sr 421.552†	35.7	-2.2	-0.0255	µg/L	-0.0255	ppb	12:13:34
1	Sc 361.383	1138512.1	1138512.1	95.139	%			12:15:32
1	Y 371.029	673498.3	673498.3	95.319	%			12:15:32
1	Ag 328.068†	616.7	2.0	0.0237	µg/L	0.0237	ppb	12:15:34
1	As 188.979†	-3.9	-1.4	-3.2691	µg/L	-3.2691	ppb	12:15:54
1	B 249.677†	284.2	43.5	0.6016	µg/L	0.6016	ppb	12:15:54
1	Ba 233.527†	-74.0	12.6	0.1821	µg/L	0.1821	ppb	12:15:54
1	Be 313.107†	-6118.6	358.5	0.1585	µg/L	0.1585	ppb	12:15:34
1	Cd 226.502†	-81.6	4.1	0.0669	µg/L	0.0669	ppb	12:15:54
1	Co 228.616†	-87.2	13.9	0.4244	µg/L	0.4244	ppb	12:15:54
1	Cr 267.716†	116.5	1.3	0.0332	µg/L	0.0332	ppb	12:15:54
1	Cu 324.752†	3728.5	-103.4	-0.7350	µg/L	-0.7350	ppb	12:15:34
1	Mn 257.610†	218.9	32.1	0.0997	µg/L	0.0997	ppb	12:15:54
1	Mo 202.031†	-16.0	-7.4	-0.8973	µg/L	-0.8973	ppb	12:15:54
1	Ni 231.604†	-50.0	-14.8	-0.4570	µg/L	-0.4570	ppb	12:15:54
1	P 214.914†	-71.1	-6.5	-6.6762	µg/L	-6.6762	ppb	12:15:54
1	Pb 220.353†	106.0	2.9	0.6788	µg/L	0.6788	ppb	12:15:54
1	S 181.975 Axial†	16.3	-7.6	-26.040	µg/L	-26.040	ppb	12:15:54
1	Sb 206.836†	2.9	-3.5	-2.2537	µg/L	-2.2537	ppb	12:15:54
1	Se 196.026†	18.9	3.0	4.30	µg/L	4.30	ppb	12:15:54
1	SiO2†	1717.5	-87.2	-16.449	µg/L	-16.449	ppb	12:15:54
1	Si 251.611†	344.3	7.2	0.2281	µg/L	0.2281	ppb	12:15:54
1	Sn 189.927†	4.5	0.8	0.3357	µg/L	0.3357	ppb	12:15:54
1	Ti 334.940†	1253.4	-203.2	-0.3851	µg/L	-0.3851	ppb	12:15:34
1	Tl 190.801†	-6.3	9.3	12.812	µg/L	12.812	ppb	12:15:54
1	U 367.007†	262.1	-44.7	-13.950	µg/L	-13.950	ppb	12:15:34
1	V 292.402†	228.8	-105.2	-0.7853	µg/L	-0.7853	ppb	12:15:34
1	Zn 213.857†	517.6	19.4	0.2621	µg/L	0.2621	ppb	12:15:54
2	Sc RADIAL	21068.2	21068.2	98.0	%			12:14:14
2	Al 396.153Radial†	-85.3	9.3	16.562	µg/L	16.562	ppb	12:14:14
2	Ca 317.933Radial†	73.1	7.5	5.0937	µg/L	5.0937	ppb	12:14:34
2	Fe 238.204 Radial†	31.6	1.7	5.7965	µg/L	5.7965	ppb	12:14:34
2	K 766.490 Radial†	602.4	-65.6	-85.762	µg/L	-85.762	ppb	12:14:14
2	Mg 279.077 IEC†	6.3	3.2	22.624	µg/L	22.624	ppb	12:14:34
2	Na 589.592 Radial†	-6.3	35.5	34.155	µg/L	34.155	ppb	12:14:14
2	Sr 421.552†	34.7	-2.6	-0.0302	µg/L	-0.0302	ppb	12:14:14
2	Sc 361.383	1123567.2	1123567.2	93.890	%			12:15:56
2	Y 371.029	664535.4	664535.4	94.051	%			12:15:56
2	Ag 328.068†	615.4	9.2	0.0669	µg/L	0.0669	ppb	12:15:58
2	As 188.979†	-7.0	-4.8	-10.926	µg/L	-10.926	ppb	12:16:18
2	B 249.677†	330.5	96.8	1.2229	µg/L	1.2229	ppb	12:16:18
2	Ba 233.527†	-83.4	1.5	0.0206	µg/L	0.0206	ppb	12:16:18
2	Be 313.107†	-6360.5	15.4	0.0068	µg/L	0.0068	ppb	12:15:58
2	Cd 226.502†	-70.3	15.0	0.2418	µg/L	0.2418	ppb	12:16:18
2	Co 228.616†	-91.6	8.1	0.2468	µg/L	0.2468	ppb	12:16:18
2	Cr 267.716†	94.6	-20.5	-0.3858	µg/L	-0.3858	ppb	12:16:18
2	Cu 324.752†	3680.6	-102.3	-0.7204	µg/L	-0.7204	ppb	12:15:58
2	Mn 257.610†	199.1	14.0	0.0419	µg/L	0.0419	ppb	12:16:18
2	Mo 202.031†	-10.6	-1.9	-0.2240	µg/L	-0.2240	ppb	12:16:18
2	Ni 231.604†	-36.3	-0.9	-0.0293	µg/L	-0.0293	ppb	12:16:18
2	P 214.914†	-67.2	-3.4	-3.4563	µg/L	-3.4563	ppb	12:16:18
2	Pb 220.353†	101.8	0.0	0.0033	µg/L	0.0033	ppb	12:16:18

2	S 181.975 Axial†	18.3	-5.3	-18.124	µg/L	-18.124	ppb	12:16:18
2	Sb 206.836†	4.3	-1.9	-1.2277	µg/L	-1.2277	ppb	12:16:18
2	Se 196.026†	8.6	-7.7	-10.9	µg/L	-10.9	ppb	12:16:18
2	SiO2†	1730.1	-49.7	-9.3915	µg/L	-9.3915	ppb	12:16:18
2	Si 251.611†	346.0	13.8	0.4196	µg/L	0.4196	ppb	12:16:18
2	Sn 189.927†	0.9	-2.9	-1.1906	µg/L	-1.1906	ppb	12:16:18
2	Ti 334.940†	1213.0	-228.8	-0.4398	µg/L	-0.4398	ppb	12:15:58
2	Tl 190.801†	-14.0	0.9	1.2524	µg/L	1.2524	ppb	12:16:18
2	U 367.007†	288.2	-13.2	-4.1569	µg/L	-4.1569	ppb	12:15:58
2	V 292.402†	246.3	-83.3	-0.6116	µg/L	-0.6116	ppb	12:15:58
2	Zn 213.857†	537.4	47.8	0.6333	µg/L	0.6333	ppb	12:16:18
3	Sc RADIAL	20300.9	20300.9	94.5	%			12:14:54
3	Al 396.153Radial†	-77.8	13.8	24.756	µg/L	24.756	ppb	12:14:54
3	Ca 317.933Radial†	71.6	8.8	5.9614	µg/L	5.9614	ppb	12:15:14
3	Fe 238.204 Radial†	29.7	0.9	3.1426	µg/L	3.1426	ppb	12:15:14
3	K 766.490 Radial†	622.4	-21.2	-27.665	µg/L	-27.665	ppb	12:14:54
3	Mg 279.077 IEC†	3.8	0.8	5.5264	µg/L	5.5264	ppb	12:15:14
3	Na 589.592 Radial†	-13.5	27.5	26.507	µg/L	26.507	ppb	12:14:54
3	Sr 421.552†	46.0	10.7	0.1265	µg/L	0.1265	ppb	12:14:54
3	Sc 361.383	1180796.9	1180796.9	98.673	%			12:16:20
3	Y 371.029	698187.0	698187.0	98.813	%			12:16:20
3	Ag 328.068†	522.7	-116.5	-0.8194	µg/L	-0.8194	ppb	12:16:22
3	As 188.979†	-8.0	-5.4	-12.318	µg/L	-12.318	ppb	12:16:42
3	B 249.677†	297.2	46.0	0.5734	µg/L	0.5734	ppb	12:16:42
3	Ba 233.527†	-84.3	4.9	0.0702	µg/L	0.0702	ppb	12:16:42
3	Be 313.107†	-6483.6	218.9	0.0968	µg/L	0.0968	ppb	12:16:22
3	Cd 226.502†	-82.3	6.5	0.1035	µg/L	0.1035	ppb	12:16:42
3	Co 228.616†	-104.7	-0.6	-0.0152	µg/L	-0.0152	ppb	12:16:42
3	Cr 267.716†	134.8	15.4	0.2963	µg/L	0.2963	ppb	12:16:42
3	Cu 324.752†	3753.5	-218.4	-1.5397	µg/L	-1.5397	ppb	12:16:22
3	Mn 257.610†	210.8	15.6	0.0473	µg/L	0.0473	ppb	12:16:42
3	Mo 202.031†	-7.1	2.2	0.2709	µg/L	0.2709	ppb	12:16:42
3	Ni 231.604†	-54.7	-17.6	-0.5434	µg/L	-0.5434	ppb	12:16:42
3	P 214.914†	-60.2	7.1	7.2661	µg/L	7.2661	ppb	12:16:42
3	Pb 220.353†	94.9	-12.2	-2.7697	µg/L	-2.7697	ppb	12:16:42
3	S 181.975 Axial†	26.3	1.9	6.5163	µg/L	6.5163	ppb	12:16:42
3	Sb 206.836†	9.5	3.1	1.9938	µg/L	1.9938	ppb	12:16:42
3	Se 196.026†	18.5	1.9	2.66	µg/L	2.66	ppb	12:16:42
3	SiO2†	1762.6	-106.2	-20.035	µg/L	-20.035	ppb	12:16:42
3	Si 251.611†	387.4	37.9	1.1369	µg/L	1.1369	ppb	12:16:42
3	Sn 189.927†	5.4	1.6	0.6493	µg/L	0.6493	ppb	12:16:42
3	Ti 334.940†	1122.8	-382.8	-0.7360	µg/L	-0.7360	ppb	12:16:22
3	Tl 190.801†	-12.2	3.5	4.8200	µg/L	4.8200	ppb	12:16:42
3	U 367.007†	293.5	-22.8	-7.1344	µg/L	-7.1344	ppb	12:16:22
3	V 292.402†	246.3	-96.0	-0.6979	µg/L	-0.6979	ppb	12:16:22
3	Zn 213.857†	531.1	13.5	0.1834	µg/L	0.1834	ppb	12:16:42

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1147625.4	95.901	%	2.4805				2.59%
Sc RADIAL	20935.8	97.4	%	2.70				2.77%
Y 371.029	678740.2	96.061	%	2.4665				2.57%
Ag 328.068†	-35.1	-0.2429	µg/L	0.49973	-0.2429	ppb	0.49973	205.71%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	9.4	16.855	µg/L	7.7584	16.855	ppb	7.7584	46.03%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.9	-8.8375	µg/L	4.87230	-8.8375	ppb	4.87230	55.13%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	62.1	0.7993	µg/L	0.36710	0.7993	ppb	0.36710	45.93%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	6.4	0.0910	µg/L	0.08270	0.0910	ppb	0.08270	90.92%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	197.6	0.0874	µg/L	0.07631	0.0874	ppb	0.07631	87.34%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.7	4.5158	µg/L	1.80534	4.5158	ppb	1.80534	39.98%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	8.5	0.1374	µg/L	0.09222	0.1374	ppb	0.09222	67.12%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	7.1	0.2186	µg/L	0.22117	0.2186	ppb	0.22117	101.15%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -1.3     -0.0188 µg/L       0.34399     -0.0188 ppb        0.34399 >999.9%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -141.4     -0.9984 µg/L       0.46886     -0.9984 ppb        0.46886  46.96%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.2      0.7892 µg/L       6.51124      0.7892 ppb        6.51124 825.08%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -49.4     -64.520 µg/L       32.0415     -64.520 ppb        32.0415  49.66%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -1.5     -10.272 µg/L       43.0279     -10.272 ppb        43.0279 418.89%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                20.5      0.0630 µg/L       0.03194      0.0630 ppb        0.03194  50.72%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -2.4     -0.2834 µg/L       0.58636     -0.2834 ppb        0.58636 206.88%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         36.7      35.360 µg/L        9.5144      35.360 ppb         9.5144  26.91%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -11.1     -0.3432 µg/L       0.27531     -0.3432 ppb        0.27531  80.21%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -0.9     -0.9555 µg/L       7.29985     -0.9555 ppb        7.29985 764.00%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -3.1     -0.6959 µg/L       1.82748     -0.6959 ppb        1.82748 262.62%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -3.6     -12.549 µg/L       16.9789     -12.549 ppb        16.9789 135.30%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -0.8     -0.4959 µg/L       2.21633     -0.4959 ppb        2.21633 446.96%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -0.9       -1.30 µg/L         8.331       -1.30 ppb          8.331 638.91%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     -81.0     -15.292 µg/L        5.4153     -15.292 ppb         5.4153  35.41%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                19.7      0.5948 µg/L       0.47910      0.5948 ppb        0.47910  80.54%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -0.2     -0.0685 µg/L       0.98429     -0.0685 ppb        0.98429 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 2.0      0.0236 µg/L       0.08911      0.0236 ppb        0.08911 377.65%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -271.6     -0.5203 µg/L       0.18878     -0.5203 ppb        0.18878  36.28%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 4.5      6.2949 µg/L       5.91947      6.2949 ppb        5.91947  94.04%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -26.9     -8.4137 µg/L       5.02033     -8.4137 ppb        5.02033  59.67%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -94.8     -0.6983 µg/L       0.08685     -0.6983 ppb        0.08685  12.44%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                26.9      0.3596 µg/L       0.24027      0.3596 ppb        0.24027  66.82%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 10 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 12:29:06**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	19946.7	19946.7	92.8	%			12:29:38
1	Al 396.153Radial†	3049.8	3381.7	6043.5	µg/L	6043.5	ppb	12:29:58
1	Ca 317.933Radial†	6785.6	7242.7	4904.3	µg/L	4904.3	ppb	12:29:58
1	Fe 238.204 Radial†	1405.8	1483.8	5017.9	µg/L	5017.9	ppb	12:29:58
1	K 766.490 Radial†	4392.6	4051.9	5297.7	µg/L	5297.7	ppb	12:29:38
1	Mg 279.077 IEC†	670.6	719.1	5049.2	µg/L	5049.2	ppb	12:29:58
1	Na 589.592 Radial†	13172.9	14232.3	13703	µg/L	13703	ppb	12:29:38
1	Sr 421.552†	40048.0	43103.6	507.86	µg/L	507.86	ppb	12:29:38
1	Sc 361.383	1175574.9	1175574.9	98.236	%			12:31:00
1	Y 371.029	682352.5	682352.5	96.572	%			12:31:00
1	Ag 328.068†	72744.7	73404.5	520.38	µg/L	520.38	ppb	12:31:02
1	As 188.979†	194.4	200.6	463.89	µg/L	463.89	ppb	12:31:22
1	B 249.677†	39330.3	39781.2	477.67	µg/L	477.67	ppb	12:31:02
1	Ba 233.527†	33822.4	34520.0	504.97	µg/L	504.97	ppb	12:31:02
1	Be 313.107†	1082546.3	1108770.6	490.27	µg/L	490.27	ppb	12:31:00
1	Cd 226.502†	30073.4	30703.1	495.74	µg/L	495.74	ppb	12:31:02
1	Co 228.616†	16083.2	16477.5	503.07	µg/L	503.07	ppb	12:31:02
1	Cr 267.716†	26200.4	26549.5	503.38	µg/L	503.38	ppb	12:31:02
1	Cu 324.752†	75717.0	73053.9	515.18	µg/L	515.18	ppb	12:31:02
1	Mn 257.610†	164337.0	167089.2	508.70	µg/L	508.70	ppb	12:31:02
1	Mo 202.031†	4021.0	4102.6	494.04	µg/L	494.04	ppb	12:31:22
1	Ni 231.604†	16208.4	16537.2	509.17	µg/L	509.17	ppb	12:31:02
1	P 214.914†	2248.9	2357.4	2397.5	µg/L	2397.5	ppb	12:31:22
1	Pb 220.353†	2212.6	2143.9	488.07	µg/L	488.07	ppb	12:31:22
1	S 181.975 Axial†	302.2	282.9	969.12	µg/L	969.12	ppb	12:31:22
1	Sb 206.836†	760.2	767.3	488.64	µg/L	488.64	ppb	12:31:22
1	Se 196.026†	347.6	337.0	479	µg/L	479	ppb	12:31:22
1	SiO2†	29149.8	27780.7	5253.2	µg/L	5253.2	ppb	12:31:02
1	Si 251.611†	80746.0	81841.0	2454.5	µg/L	2454.5	ppb	12:31:02
1	Sn 189.927†	1176.6	1193.8	483.27	µg/L	483.27	ppb	12:31:22
1	Ti 334.940†	259006.1	262135.2	506.38	µg/L	506.38	ppb	12:31:02
1	Tl 190.801†	327.4	349.1	478.48	µg/L	478.48	ppb	12:31:22
1	U 367.007†	1935.6	1650.2	487.12	µg/L	487.12	ppb	12:31:02
1	V 292.402†	68401.6	69284.0	512.22	µg/L	512.22	ppb	12:31:02
1	Zn 213.857†	37742.0	37895.0	499.09	µg/L	499.09	ppb	12:31:02
2	Sc RADIAL	19977.2	19977.2	93.0	%			12:30:00
2	Al 396.153Radial†	3196.2	3534.0	6315.5	µg/L	6315.5	ppb	12:30:20
2	Ca 317.933Radial†	7238.6	7718.9	5226.7	µg/L	5226.7	ppb	12:30:20
2	Fe 238.204 Radial†	1490.4	1572.6	5318.5	µg/L	5318.5	ppb	12:30:20
2	K 766.490 Radial†	4293.4	3938.0	5149.8	µg/L	5149.8	ppb	12:30:00
2	Mg 279.077 IEC†	715.3	766.1	5379.2	µg/L	5379.2	ppb	12:30:20
2	Na 589.592 Radial†	12749.7	13755.5	13244	µg/L	13244	ppb	12:30:00
2	Sr 421.552†	39314.7	42249.0	497.78	µg/L	497.78	ppb	12:30:00
2	Sc 361.383	1088058.8	1088058.8	90.923	%			12:31:24
2	Y 371.029	632328.0	632328.0	89.492	%			12:31:24
2	Ag 328.068†	70401.6	76783.6	544.33	µg/L	544.33	ppb	12:31:26
2	As 188.979†	210.9	234.7	542.04	µg/L	542.04	ppb	12:31:47
2	B 249.677†	38116.0	41665.9	500.20	µg/L	500.20	ppb	12:31:26
2	Ba 233.527†	32406.8	35732.4	522.71	µg/L	522.71	ppb	12:31:26
2	Be 313.107†	983517.4	1088491.5	481.30	µg/L	481.30	ppb	12:31:24
2	Cd 226.502†	28640.2	31589.2	510.02	µg/L	510.02	ppb	12:31:26
2	Co 228.616†	15384.9	17026.4	519.86	µg/L	519.86	ppb	12:31:26
2	Cr 267.716†	25170.1	27561.6	522.55	µg/L	522.55	ppb	12:31:26
2	Cu 324.752†	73229.7	76517.8	539.61	µg/L	539.61	ppb	12:31:26
2	Mn 257.610†	157838.5	173397.4	527.90	µg/L	527.90	ppb	12:31:26
2	Mo 202.031†	4151.9	4575.9	551.02	µg/L	551.02	ppb	12:31:47
2	Ni 231.604†	15378.7	16951.7	521.93	µg/L	521.93	ppb	12:31:26
2	P 214.914†	2316.8	2616.2	2661.3	µg/L	2661.3	ppb	12:31:47
2	Pb 220.353†	2275.9	2394.7	545.14	µg/L	545.14	ppb	12:31:47

2	S 181.975 Axial†	298.5	303.6	1040.0 µg/L	1040.0 ppb	12:31:47
2	Sb 206.836†	789.2	861.4	548.88 µg/L	548.88 ppb	12:31:47
2	Se 196.026†	369.5	389.6	553 µg/L	553 ppb	12:31:47
2	SiO2†	28123.5	29038.6	5491.0 µg/L	5491.0 ppb	12:31:26
2	Si 251.611†	77807.3	85220.1	2555.4 µg/L	2555.4 ppb	12:31:26
2	Sn 189.927†	1221.0	1338.9	542.00 µg/L	542.00 ppb	12:31:47
2	Ti 334.940†	249640.9	273041.8	527.45 µg/L	527.45 ppb	12:31:26
2	Tl 190.801†	345.2	395.4	542.49 µg/L	542.49 ppb	12:31:47
2	U 367.007†	1915.6	1786.6	528.11 µg/L	528.11 ppb	12:31:26
2	V 292.402†	66089.4	72341.5	535.27 µg/L	535.27 ppb	12:31:26
2	Zn 213.857†	36318.3	39419.3	519.19 µg/L	519.19 ppb	12:31:26
3	Sc RADIAL	21609.9	21609.9	101 %		12:30:22
3	Al 396.153Radial†	3183.3	3261.5	5828.6 µg/L	5828.6 ppb	12:30:42
3	Ca 317.933Radial†	7269.4	7161.2	4849.1 µg/L	4849.1 ppb	12:30:42
3	Fe 238.204 Radial†	1503.2	1464.1	4951.5 µg/L	4951.5 ppb	12:30:42
3	K 766.490 Radial†	4680.5	3974.0	5196.0 µg/L	5196.0 ppb	12:30:22
3	Mg 279.077 IEC†	723.5	716.2	5028.8 µg/L	5028.8 ppb	12:30:42
3	Na 589.592 Radial†	14113.6	14075.5	13552 µg/L	13552 ppb	12:30:22
3	Sr 421.552†	43638.4	43353.2	510.80 µg/L	510.80 ppb	12:30:22
3	Sc 361.383	1202863.9	1202863.9	100.52 %		12:31:49
3	Y 371.029	698099.4	698099.4	98.801 %		12:31:49
3	Ag 328.068†	72851.8	71831.1	509.26 µg/L	509.26 ppb	12:31:51
3	As 188.979†	211.0	212.7	491.26 µg/L	491.26 ppb	12:32:11
3	B 249.677†	39435.1	38977.2	467.87 µg/L	467.87 ppb	12:31:51
3	Ba 233.527†	33795.5	33712.2	493.15 µg/L	493.15 ppb	12:31:51
3	Be 313.107†	1103748.5	1104863.4	488.54 µg/L	488.54 ppb	12:31:49
3	Cd 226.502†	29973.7	29909.5	482.91 µg/L	482.91 ppb	12:31:51
3	Co 228.616†	16012.7	16036.0	489.61 µg/L	489.61 ppb	12:31:51
3	Cr 267.716†	26098.3	25842.8	490.00 µg/L	490.00 ppb	12:31:51
3	Cu 324.752†	75670.7	71259.3	502.51 µg/L	502.51 ppb	12:31:51
3	Mn 257.610†	163960.8	162919.7	496.00 µg/L	496.00 ppb	12:31:51
3	Mo 202.031†	4179.0	4166.9	501.78 µg/L	501.78 ppb	12:32:11
3	Ni 231.604†	15994.3	15949.8	491.08 µg/L	491.08 ppb	12:31:51
3	P 214.914†	2342.4	2398.5	2439.8 µg/L	2439.8 ppb	12:32:11
3	Pb 220.353†	2288.8	2168.6	493.73 µg/L	493.73 ppb	12:32:11
3	S 181.975 Axial†	313.6	287.2	984.03 µg/L	984.03 ppb	12:32:11
3	Sb 206.836†	786.4	775.8	494.21 µg/L	494.21 ppb	12:32:11
3	Se 196.026†	364.2	345.5	491 µg/L	491 ppb	12:32:11
3	SiO2†	29113.7	27071.5	5119.1 µg/L	5119.1 ppb	12:31:51
3	Si 251.611†	80766.0	79996.1	2399.0 µg/L	2399.0 ppb	12:31:51
3	Sn 189.927†	1236.2	1225.9	496.26 µg/L	496.26 ppb	12:32:11
3	Ti 334.940†	258513.6	255663.7	493.90 µg/L	493.90 ppb	12:31:51
3	Tl 190.801†	339.6	353.6	484.87 µg/L	484.87 ppb	12:32:11
3	U 367.007†	1852.5	1522.8	447.70 µg/L	447.70 ppb	12:31:51
3	V 292.402†	68374.3	67677.1	500.56 µg/L	500.56 ppb	12:31:51
3	Zn 213.857†	37726.4	37007.8	487.43 µg/L	487.43 ppb	12:31:51

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1155499.2	96.559	%	5.0120				5.19%
Sc RADIAL	20511.3	95.5	%	4.43				4.64%
Y 371.029	670926.6	94.955	%	4.8604				5.12%
Ag 328.068†	74006.4	524.66	µg/L	17.925	524.66	ppb	17.925	3.42%
QC value within limits for Ag 328.068 Recovery = 104.93%								
Al 396.153Radial†	3392.4	6062.5	µg/L	244.01	6062.5	ppb	244.01	4.02%
QC value greater than the upper limit for Al 396.153Radial Recovery = 121.25%								
As 188.979†	216.0	499.06	µg/L	39.657	499.06	ppb	39.657	7.95%
QC value within limits for As 188.979 Recovery = 99.81%								
B 249.677†	40141.4	481.91	µg/L	16.578	481.91	ppb	16.578	3.44%
QC value within limits for B 249.677 Recovery = 96.38%								
Ba 233.527†	34654.9	506.94	µg/L	14.881	506.94	ppb	14.881	2.94%
QC value within limits for Ba 233.527 Recovery = 101.39%								
Be 313.107†	1100708.5	486.71	µg/L	4.757	486.71	ppb	4.757	0.98%
QC value within limits for Be 313.107 Recovery = 97.34%								
Ca 317.933Radial†	7374.3	4993.4	µg/L	203.95	4993.4	ppb	203.95	4.08%
QC value within limits for Ca 317.933Radial Recovery = 99.87%								
Cd 226.502†	30733.9	496.22	µg/L	13.562	496.22	ppb	13.562	2.73%
QC value within limits for Cd 226.502 Recovery = 99.24%								
Co 228.616†	16513.3	504.18	µg/L	15.156	504.18	ppb	15.156	3.01%

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   QC value within limits for Co 228.616  Recovery = 100.84%
Cr 267.716†            26651.3      505.31 µg/L        16.364      505.31 ppb         16.364   3.24%
   QC value within limits for Cr 267.716  Recovery = 101.06%
Cu 324.752†            73610.3      519.10 µg/L        18.856      519.10 ppb         18.856   3.63%
   QC value within limits for Cu 324.752  Recovery = 103.82%
Fe 238.204 Radial†      1506.8      5096.0 µg/L        195.59      5096.0 ppb         195.59   3.84%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.92%
K 766.490 Radial†       3988.0      5214.5 µg/L         75.69      5214.5 ppb          75.69   1.45%
   QC value within limits for K 766.490 Radial  Recovery = 104.29%
Mg 279.077 IEC†          733.8      5152.4 µg/L        196.69      5152.4 ppb         196.69   3.82%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.05%
Mn 257.610†           167802.1      510.87 µg/L        16.060      510.87 ppb         16.060   3.14%
   QC value within limits for Mn 257.610  Recovery = 102.17%
Mo 202.031†             4281.8      515.61 µg/L        30.904      515.61 ppb         30.904   5.99%
   QC value within limits for Mo 202.031  Recovery = 103.12%
Na 589.592 Radial†     14021.1       13499 µg/L         234.0       13499 ppb          234.0   1.73%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 134.99%
Ni 231.604†            16479.6      507.39 µg/L        15.500      507.39 ppb         15.500   3.05%
   QC value within limits for Ni 231.604  Recovery = 101.48%
P 214.914†              2457.4      2499.5 µg/L        141.66      2499.5 ppb         141.66   5.67%
   QC value within limits for P 214.914  Recovery = 99.98%
Pb 220.353†             2235.7      508.98 µg/L        31.443      508.98 ppb         31.443   6.18%
   QC value within limits for Pb 220.353  Recovery = 101.80%
S 181.975 Axial†         291.2      997.72 µg/L        37.376      997.72 ppb         37.376   3.75%
   QC value within limits for S 181.975 Axial  Recovery = 99.77%
Sb 206.836†              801.5      510.58 µg/L        33.290      510.58 ppb         33.290   6.52%
   QC value within limits for Sb 206.836  Recovery = 102.12%
Se 196.026†              357.4         507 µg/L          40.0         507 ppb           40.0   7.89%
   QC value within limits for Se 196.026  Recovery = 101.48%
SiO2†                  27963.6      5287.8 µg/L        188.35      5287.8 ppb         188.35   3.56%
   QC value within limits for SiO2  Recovery = 98.88%
Si 251.611†            82352.4      2469.6 µg/L         79.31      2469.6 ppb          79.31   3.21%
   QC value within limits for Si 251.611  Recovery = 98.79%
Sn 189.927†             1252.9      507.18 µg/L        30.850      507.18 ppb         30.850   6.08%
   QC value within limits for Sn 189.927  Recovery = 101.44%
Sr 421.552†            42901.9      505.48 µg/L         6.825      505.48 ppb          6.825   1.35%
   QC value within limits for Sr 421.552  Recovery = 101.10%
Ti 334.940†           263613.6      509.24 µg/L        16.956      509.24 ppb         16.956   3.33%
   QC value within limits for Ti 334.940  Recovery = 101.85%
Tl 190.801†              366.1      501.95 µg/L        35.259      501.95 ppb         35.259   7.02%
   QC value within limits for Tl 190.801  Recovery = 100.39%
U 367.007†              1653.2      487.64 µg/L        40.207      487.64 ppb         40.207   8.25%
   QC value within limits for U 367.007  Recovery = 97.53%
V 292.402†             69767.5      516.02 µg/L        17.663      516.02 ppb         17.663   3.42%
   QC value within limits for V 292.402  Recovery = 103.20%
Zn 213.857†            38107.3      501.90 µg/L        16.067      501.90 ppb         16.067   3.20%
   QC value within limits for Zn 213.857  Recovery = 100.38%
QC Failed.  Continue with analysis.
```

Sequence No.: 11 **Autosampler Location: 101**
Sample ID: PQL **Date Collected: 11/7/2013 12:32:19**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21105.2	21105.2	98.2	%			12:33:08
1	Al 396.153Radial†	65.5	163.0	291.33	µg/L	291.33	ppb	12:33:08
1	Ca 317.933Radial†	369.1	308.8	209.05	µg/L	209.05	ppb	12:33:28
1	Fe 238.204 Radial†	52.4	22.8	77.227	µg/L	77.227	ppb	12:33:28
1	K 766.490 Radial†	750.5	84.1	109.85	µg/L	109.85	ppb	12:33:08
1	Mg 279.077 IEC†	46.1	43.8	307.15	µg/L	307.15	ppb	12:33:28
1	Na 589.592 Radial†	385.3	434.2	418.02	µg/L	418.02	ppb	12:33:08
1	Sr 421.552†	487.7	458.6	5.4016	µg/L	5.4016	ppb	12:33:08
1	Sc 361.383	1198464.7	1198464.7	100.15	%			12:35:06
1	Y 371.029	708645.1	708645.1	100.29	%			12:35:06
1	Ag 328.068†	1411.4	763.1	5.3707	µg/L	5.3707	ppb	12:35:08
1	As 188.979†	10.8	13.5	30.802	µg/L	30.802	ppb	12:35:28
1	B 249.677†	4062.8	3801.5	47.169	µg/L	47.169	ppb	12:35:08
1	Ba 233.527†	258.1	348.1	5.0890	µg/L	5.0890	ppb	12:35:28
1	Be 313.107†	4788.8	11571.3	5.1165	µg/L	5.1165	ppb	12:35:08
1	Cd 226.502†	241.2	330.6	5.3354	µg/L	5.3354	ppb	12:35:28
1	Co 228.616†	65.9	171.4	5.2406	µg/L	5.2406	ppb	12:35:28
1	Cr 267.716†	374.5	252.7	4.7616	µg/L	4.7616	ppb	12:35:28
1	Cu 324.752†	5106.0	1076.0	7.6037	µg/L	7.6037	ppb	12:35:08
1	Mn 257.610†	3595.4	3392.0	10.319	µg/L	10.319	ppb	12:35:28
1	Mo 202.031†	83.6	92.9	11.192	µg/L	11.192	ppb	12:35:28
1	Ni 231.604†	127.6	165.1	5.0838	µg/L	5.0838	ppb	12:35:28
1	P 214.914†	91.4	159.4	162.91	µg/L	162.91	ppb	12:35:28
1	Pb 220.353†	143.3	34.6	7.8685	µg/L	7.8685	ppb	12:35:28
1	S 181.975 Axial†	57.5	32.7	112.42	µg/L	112.42	ppb	12:35:28
1	Sb 206.836†	21.3	14.7	9.4203	µg/L	9.4203	ppb	12:35:28
1	Se 196.026†	35.6	18.7	26.5	µg/L	26.5	ppb	12:35:28
1	SiO2†	2897.7	1000.9	189.01	µg/L	189.01	ppb	12:35:08
1	Si 251.611†	3707.2	3347.0	100.49	µg/L	100.49	ppb	12:35:08
1	Sn 189.927†	24.6	20.7	8.3873	µg/L	8.3873	ppb	12:35:28
1	Ti 334.940†	3574.6	2048.6	3.9440	µg/L	3.9440	ppb	12:35:08
1	Tl 190.801†	3.4	19.2	26.492	µg/L	26.492	ppb	12:35:28
1	U 367.007†	462.6	141.8	43.859	µg/L	43.859	ppb	12:35:08
1	V 292.402†	875.9	529.0	4.0325	µg/L	4.0325	ppb	12:35:08
1	Zn 213.857†	1310.6	784.0	10.354	µg/L	10.354	ppb	12:35:28
2	Sc RADIAL	20332.7	20332.7	94.6	%			12:33:48
2	Al 396.153Radial†	55.6	155.0	277.10	µg/L	277.10	ppb	12:33:48
2	Ca 317.933Radial†	382.8	337.6	228.57	µg/L	228.57	ppb	12:34:08
2	Fe 238.204 Radial†	56.7	29.4	99.598	µg/L	99.598	ppb	12:34:08
2	K 766.490 Radial†	725.9	87.2	113.84	µg/L	113.84	ppb	12:33:48
2	Mg 279.077 IEC†	52.7	52.5	368.74	µg/L	368.74	ppb	12:34:08
2	Na 589.592 Radial†	409.5	474.6	456.96	µg/L	456.96	ppb	12:33:48
2	Sr 421.552†	476.6	465.7	5.4854	µg/L	5.4854	ppb	12:33:48
2	Sc 361.383	1193343.0	1193343.0	99.721	%			12:35:30
2	Y 371.029	705724.1	705724.1	99.880	%			12:35:30
2	Ag 328.068†	1222.2	579.4	4.0738	µg/L	4.0738	ppb	12:35:32
2	As 188.979†	10.1	12.8	29.334	µg/L	29.334	ppb	12:35:52
2	B 249.677†	3967.9	3723.8	46.111	µg/L	46.111	ppb	12:35:32
2	Ba 233.527†	273.1	364.2	5.3245	µg/L	5.3245	ppb	12:35:52
2	Be 313.107†	4949.2	11752.8	5.1968	µg/L	5.1968	ppb	12:35:32
2	Cd 226.502†	213.8	304.2	4.9053	µg/L	4.9053	ppb	12:35:52
2	Co 228.616†	52.6	158.3	4.8408	µg/L	4.8408	ppb	12:35:52
2	Cr 267.716†	380.6	260.4	4.9102	µg/L	4.9102	ppb	12:35:52
2	Cu 324.752†	5277.9	1270.3	8.9730	µg/L	8.9730	ppb	12:35:32
2	Mn 257.610†	3583.3	3395.2	10.327	µg/L	10.327	ppb	12:35:52
2	Mo 202.031†	75.8	85.4	10.293	µg/L	10.293	ppb	12:35:52
2	Ni 231.604†	120.7	158.8	4.8879	µg/L	4.8879	ppb	12:35:52
2	P 214.914†	86.9	155.3	158.62	µg/L	158.62	ppb	12:35:52
2	Pb 220.353†	150.2	42.2	9.5831	µg/L	9.5831	ppb	12:35:52

2	S 181.975 Axial†	53.7	29.1	99.917 µg/L	99.917 ppb	12:35:52
2	Sb 206.836†	18.9	12.4	7.9525 µg/L	7.9525 ppb	12:35:52
2	Se 196.026†	37.0	20.3	28.8 µg/L	28.8 ppb	12:35:52
2	SiO2†	2887.8	1003.4	189.49 µg/L	189.49 ppb	12:35:32
2	Si 251.611†	3572.7	3228.0	96.925 µg/L	96.925 ppb	12:35:32
2	Sn 189.927†	25.0	21.1	8.5656 µg/L	8.5656 ppb	12:35:52
2	Ti 334.940†	3900.2	2390.4	4.6065 µg/L	4.6065 ppb	12:35:32
2	Tl 190.801†	0.6	16.4	22.624 µg/L	22.624 ppb	12:35:52
2	U 367.007†	453.1	134.1	41.359 µg/L	41.359 ppb	12:35:32
2	V 292.402†	933.8	590.8	4.4734 µg/L	4.4734 ppb	12:35:32
2	Zn 213.857†	1296.5	775.5	10.239 µg/L	10.239 ppb	12:35:52
3	Sc RADIAL	20879.5	20879.5	97.2 %		12:34:29
3	Al 396.153Radial†	59.1	157.0	280.79 µg/L	280.79 ppb	12:34:29
3	Ca 317.933Radial†	381.3	325.4	220.30 µg/L	220.30 ppb	12:34:49
3	Fe 238.204 Radial†	57.8	29.0	98.104 µg/L	98.104 ppb	12:34:49
3	K 766.490 Radial†	764.6	106.9	139.64 µg/L	139.64 ppb	12:34:29
3	Mg 279.077 IEC†	45.1	43.2	303.11 µg/L	303.11 ppb	12:34:49
3	Na 589.592 Radial†	395.6	449.0	432.28 µg/L	432.28 ppb	12:34:29
3	Sr 421.552†	484.2	460.3	5.4226 µg/L	5.4226 ppb	12:34:29
3	Sc 361.383	1175761.8	1175761.8	98.252 %		12:35:54
3	Y 371.029	695296.1	695296.1	98.404 %		12:35:54
3	Ag 328.068†	1175.6	550.3	3.8706 µg/L	3.8706 ppb	12:35:56
3	As 188.979†	6.7	9.6	21.873 µg/L	21.873 ppb	12:36:16
3	B 249.677†	4067.2	3884.4	48.113 µg/L	48.113 ppb	12:35:56
3	Ba 233.527†	253.8	348.7	5.1011 µg/L	5.1011 ppb	12:36:16
3	Be 313.107†	4721.4	11595.1	5.1271 µg/L	5.1271 ppb	12:35:56
3	Cd 226.502†	232.7	326.7	5.2691 µg/L	5.2691 ppb	12:36:16
3	Co 228.616†	58.0	164.6	5.0324 µg/L	5.0324 ppb	12:36:16
3	Cr 267.716†	373.8	259.3	4.8892 µg/L	4.8892 ppb	12:36:16
3	Cu 324.752†	5163.4	1232.9	8.7094 µg/L	8.7094 ppb	12:35:56
3	Mn 257.610†	3553.9	3419.1	10.402 µg/L	10.402 ppb	12:36:16
3	Mo 202.031†	67.5	78.1	9.4144 µg/L	9.4144 ppb	12:36:16
3	Ni 231.604†	114.3	154.1	4.7431 µg/L	4.7431 ppb	12:36:16
3	P 214.914†	78.6	148.1	151.35 µg/L	151.35 ppb	12:36:16
3	Pb 220.353†	145.4	39.5	8.9794 µg/L	8.9794 ppb	12:36:16
3	S 181.975 Axial†	57.5	33.7	115.97 µg/L	115.97 ppb	12:36:16
3	Sb 206.836†	25.6	19.6	12.498 µg/L	12.498 ppb	12:36:16
3	Se 196.026†	37.9	21.8	30.8 µg/L	30.8 ppb	12:36:16
3	SiO2†	2912.2	1071.6	202.35 µg/L	202.35 ppb	12:35:56
3	Si 251.611†	3569.6	3278.4	98.452 µg/L	98.452 ppb	12:35:56
3	Sn 189.927†	26.2	22.8	9.2346 µg/L	9.2346 ppb	12:36:16
3	Ti 334.940†	3705.7	2251.0	4.3372 µg/L	4.3372 ppb	12:35:56
3	Tl 190.801†	4.4	20.3	28.004 µg/L	28.004 ppb	12:36:16
3	U 367.007†	444.3	132.0	40.709 µg/L	40.709 ppb	12:35:56
3	V 292.402†	1031.5	704.3	5.2884 µg/L	5.2884 ppb	12:35:56
3	Zn 213.857†	1301.3	799.8	10.563 µg/L	10.563 ppb	12:36:16

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1189189.8	99.374	%	0.9951				1.00%
Sc RADIAL	20772.5	96.7	%	1.85				1.91%
Y 371.029	703221.8	99.526	%	0.9932				1.00%
Ag 328.068†	631.0	4.4384	µg/L	0.81377	4.4384	ppb	0.81377	18.33%
QC value within limits for Ag 328.068 Recovery = 88.77%								
Al 396.153Radial†	158.3	283.07	µg/L	7.385	283.07	ppb	7.385	2.61%
QC value greater than the upper limit for Al 396.153Radial Recovery = 141.54%								
As 188.979†	12.0	27.336	µg/L	4.7883	27.336	ppb	4.7883	17.52%
QC value within limits for As 188.979 Recovery = 91.12%								
B 249.677†	3803.2	47.131	µg/L	1.0015	47.131	ppb	1.0015	2.12%
QC value within limits for B 249.677 Recovery = 94.26%								
Ba 233.527†	353.7	5.1715	µg/L	0.13259	5.1715	ppb	0.13259	2.56%
QC value within limits for Ba 233.527 Recovery = 103.43%								
Be 313.107†	11639.7	5.1468	µg/L	0.04360	5.1468	ppb	0.04360	0.85%
QC value within limits for Be 313.107 Recovery = 102.94%								
Ca 317.933Radial†	323.9	219.31	µg/L	9.799	219.31	ppb	9.799	4.47%
QC value within limits for Ca 317.933Radial Recovery = 109.65%								
Cd 226.502†	320.5	5.1699	µg/L	0.23156	5.1699	ppb	0.23156	4.48%
QC value within limits for Cd 226.502 Recovery = 103.40%								
Co 228.616†	164.8	5.0379	µg/L	0.19997	5.0379	ppb	0.19997	3.97%

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   QC value within limits for Co 228.616  Recovery = 100.76%
Cr 267.716†              257.4      4.8537 µg/L       0.08044      4.8537 ppb        0.08044   1.66%
   QC value within limits for Cr 267.716  Recovery = 97.07%
Cu 324.752†             1193.0      8.4287 µg/L       0.72654      8.4287 ppb        0.72654   8.62%
   QC value within limits for Cu 324.752  Recovery = 84.29%
Fe 238.204 Radial†        27.1      91.643 µg/L       12.5067      91.643 ppb        12.5067  13.65%
   QC value within limits for Fe 238.204 Radial  Recovery = 91.64%
K 766.490 Radial†         92.7      121.11 µg/L        16.175      121.11 ppb         16.175  13.36%
   QC value within limits for K 766.490 Radial  Recovery = 80.74%
Mg 279.077 IEC†           46.5      326.33 µg/L        36.783      326.33 ppb         36.783  11.27%
   QC value within limits for Mg 279.077 IEC  Recovery = 108.78%
Mn 257.610†             3402.1      10.349 µg/L        0.0458      10.349 ppb         0.0458   0.44%
   QC value within limits for Mn 257.610  Recovery = 103.49%
Mo 202.031†               85.5      10.300 µg/L        0.8890      10.300 ppb         0.8890   8.63%
   QC value within limits for Mo 202.031  Recovery = 103.00%
Na 589.592 Radial†       452.6      435.75 µg/L        19.697      435.75 ppb         19.697   4.52%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 145.25%
Ni 231.604†              159.3      4.9050 µg/L       0.17099      4.9050 ppb        0.17099   3.49%
   QC value within limits for Ni 231.604  Recovery = 98.10%
P 214.914†               154.3      157.63 µg/L         5.846      157.63 ppb          5.846   3.71%
   QC value within limits for P 214.914  Recovery = 105.08%
Pb 220.353†               38.8      8.8104 µg/L       0.86970      8.8104 ppb        0.86970   9.87%
   QC value within limits for Pb 220.353  Recovery = 88.10%
S 181.975 Axial†          31.9      109.44 µg/L         8.432      109.44 ppb          8.432   7.71%
   QC value within limits for S 181.975 Axial  Recovery = 109.44%
Sb 206.836†               15.6      9.9570 µg/L       2.31987      9.9570 ppb        2.31987  23.30%
   QC value within limits for Sb 206.836  Recovery = 99.57%
Se 196.026†               20.2        28.7 µg/L          2.19        28.7 ppb           2.19   7.65%
   QC value within limits for Se 196.026  Recovery = 95.60%
SiO2†                   1025.3      193.62 µg/L         7.571      193.62 ppb          7.571   3.91%
   QC value within limits for SiO2  Recovery = 90.90%
Si 251.611†             3284.5      98.622 µg/L        1.7881      98.622 ppb         1.7881   1.81%
   QC value within limits for Si 251.611  Recovery = 98.62%
Sn 189.927†               21.5      8.7292 µg/L       0.44667      8.7292 ppb        0.44667   5.12%
   QC value within limits for Sn 189.927  Recovery = 87.29%
Sr 421.552†              461.5      5.4365 µg/L       0.04359      5.4365 ppb        0.04359   0.80%
   QC value within limits for Sr 421.552  Recovery = 108.73%
Ti 334.940†             2230.0      4.2959 µg/L       0.33318      4.2959 ppb        0.33318   7.76%
   QC value within limits for Ti 334.940  Recovery = 85.92%
Tl 190.801†               18.6      25.707 µg/L        2.7746      25.707 ppb         2.7746  10.79%
   QC value within limits for Tl 190.801  Recovery = 128.53%
U 367.007†               136.0      41.976 µg/L        1.6633      41.976 ppb         1.6633   3.96%
   QC value within limits for U 367.007  Recovery = 83.95%
V 292.402†               608.0      4.5981 µg/L       0.63716      4.5981 ppb        0.63716  13.86%
   QC value within limits for V 292.402  Recovery = 91.96%
Zn 213.857†              786.4      10.386 µg/L        0.1643      10.386 ppb         0.1643   1.58%
   QC value within limits for Zn 213.857  Recovery = 103.86%
QC Failed.  Continue with analysis.
```

Sequence No.: 12 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 12:36:25**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21026.4	21026.4	97.9	%			12:37:14
1	Al 396.153Radial†	-83.0	11.4	20.399	µg/L	20.399	ppb	12:37:14
1	Ca 317.933Radial†	70.2	4.8	3.2482	µg/L	3.2482	ppb	12:37:34
1	Fe 238.204 Radial†	27.1	-2.8	-9.6244	µg/L	-9.6244	ppb	12:37:34
1	K 766.490 Radial†	623.6	-42.7	-55.815	µg/L	-55.815	ppb	12:37:14
1	Mg 279.077 IEC†	-0.0	-3.2	-22.584	µg/L	-22.584	ppb	12:37:34
1	Na 589.592 Radial†	-51.1	-10.3	-9.9462	µg/L	-9.9462	ppb	12:37:14
1	Sr 421.552†	28.9	-8.4	-0.0991	µg/L	-0.0991	ppb	12:37:14
1	Sc 361.383	1164295.1	1164295.1	97.294	%			12:39:11
1	Y 371.029	688512.9	688512.9	97.444	%			12:39:11
1	Ag 328.068†	696.7	69.9	0.4913	µg/L	0.4913	ppb	12:39:13
1	As 188.979†	-5.6	-3.0	-6.8633	µg/L	-6.8633	ppb	12:39:33
1	B 249.677†	302.0	55.2	0.7482	µg/L	0.7482	ppb	12:39:33
1	Ba 233.527†	-80.3	7.9	0.1142	µg/L	0.1142	ppb	12:39:33
1	Be 313.107†	-6465.9	143.9	0.0636	µg/L	0.0636	ppb	12:39:13
1	Cd 226.502†	-98.4	-11.3	-0.1809	µg/L	-0.1809	ppb	12:39:33
1	Co 228.616†	-100.4	2.4	0.0724	µg/L	0.0724	ppb	12:39:33
1	Cr 267.716†	128.5	10.9	0.2052	µg/L	0.2052	ppb	12:39:33
1	Cu 324.752†	3716.8	-202.2	-1.4229	µg/L	-1.4229	ppb	12:39:13
1	Mn 257.610†	198.2	5.7	0.0179	µg/L	0.0179	ppb	12:39:33
1	Mo 202.031†	-21.4	-12.6	-1.5135	µg/L	-1.5135	ppb	12:39:33
1	Ni 231.604†	-46.4	-9.9	-0.3054	µg/L	-0.3054	ppb	12:39:33
1	P 214.914†	-47.5	19.3	19.774	µg/L	19.774	ppb	12:39:33
1	Pb 220.353†	114.0	8.7	1.9745	µg/L	1.9745	ppb	12:39:33
1	S 181.975 Axial†	16.1	-8.2	-28.300	µg/L	-28.300	ppb	12:39:33
1	Sb 206.836†	7.7	1.4	0.8532	µg/L	0.8532	ppb	12:39:33
1	Se 196.026†	13.7	-2.8	-3.99	µg/L	-3.99	ppb	12:39:33
1	SiO2†	1738.7	-105.4	-19.887	µg/L	-19.887	ppb	12:39:33
1	Si 251.611†	349.1	4.1	0.1430	µg/L	0.1430	ppb	12:39:33
1	Sn 189.927†	5.1	1.4	0.5478	µg/L	0.5478	ppb	12:39:33
1	Ti 334.940†	1252.1	-233.8	-0.4523	µg/L	-0.4523	ppb	12:39:13
1	Tl 190.801†	-17.3	-2.0	-2.7075	µg/L	-2.7075	ppb	12:39:33
1	U 367.007†	316.0	4.6	1.4791	µg/L	1.4791	ppb	12:39:13
1	V 292.402†	305.2	-32.0	-0.2509	µg/L	-0.2509	ppb	12:39:13
1	Zn 213.857†	521.3	11.1	0.1520	µg/L	0.1520	ppb	12:39:33
2	Sc RADIAL	20737.6	20737.6	96.5	%			12:37:54
2	Al 396.153Radial†	-82.2	11.1	19.835	µg/L	19.835	ppb	12:37:54
2	Ca 317.933Radial†	67.0	2.4	1.6545	µg/L	1.6545	ppb	12:38:14
2	Fe 238.204 Radial†	30.1	0.6	2.1609	µg/L	2.1609	ppb	12:38:14
2	K 766.490 Radial†	622.6	-34.8	-45.505	µg/L	-45.505	ppb	12:37:54
2	Mg 279.077 IEC†	0.1	-3.1	-21.609	µg/L	-21.609	ppb	12:38:14
2	Na 589.592 Radial†	-31.6	9.1	8.7924	µg/L	8.7924	ppb	12:37:54
2	Sr 421.552†	45.7	9.3	0.1100	µg/L	0.1100	ppb	12:37:54
2	Sc 361.383	1165920.5	1165920.5	97.430	%			12:39:35
2	Y 371.029	690081.9	690081.9	97.666	%			12:39:35
2	Ag 328.068†	608.3	-21.8	-0.1316	µg/L	-0.1316	ppb	12:39:37
2	As 188.979†	-4.3	-1.7	-3.9149	µg/L	-3.9149	ppb	12:39:57
2	B 249.677†	279.4	31.6	0.4055	µg/L	0.4055	ppb	12:39:57
2	Ba 233.527†	-91.8	-3.8	-0.0569	µg/L	-0.0569	ppb	12:39:57
2	Be 313.107†	-6340.3	282.1	0.1247	µg/L	0.1247	ppb	12:39:37
2	Cd 226.502†	-83.4	4.2	0.0680	µg/L	0.0680	ppb	12:39:57
2	Co 228.616†	-93.7	9.4	0.2898	µg/L	0.2898	ppb	12:39:57
2	Cr 267.716†	99.9	-18.7	-0.3374	µg/L	-0.3374	ppb	12:39:57
2	Cu 324.752†	3721.3	-202.9	-1.4400	µg/L	-1.4400	ppb	12:39:37
2	Mn 257.610†	210.1	17.6	0.0545	µg/L	0.0545	ppb	12:39:57
2	Mo 202.031†	-5.2	4.1	0.4911	µg/L	0.4911	ppb	12:39:57
2	Ni 231.604†	-36.5	0.3	0.0083	µg/L	0.0083	ppb	12:39:57
2	P 214.914†	-56.3	10.4	10.620	µg/L	10.620	ppb	12:39:57
2	Pb 220.353†	111.4	5.9	1.3718	µg/L	1.3718	ppb	12:39:57

2	S 181.975 Axial†	29.8	5.8	20.103	µg/L	20.103	ppb	12:39:57
2	Sb 206.836†	5.4	-1.0	-0.6130	µg/L	-0.6130	ppb	12:39:57
2	Se 196.026†	17.0	0.6	0.810	µg/L	0.810	ppb	12:39:57
2	SiO2†	1728.7	-118.1	-22.299	µg/L	-22.299	ppb	12:39:57
2	Si 251.611†	331.9	-14.0	-0.4265	µg/L	-0.4265	ppb	12:39:57
2	Sn 189.927†	1.2	-2.7	-1.0997	µg/L	-1.0997	ppb	12:39:57
2	Ti 334.940†	1189.2	-300.1	-0.5663	µg/L	-0.5663	ppb	12:39:37
2	Tl 190.801†	-12.2	3.3	4.5175	µg/L	4.5175	ppb	12:39:57
2	U 367.007†	230.7	-83.4	-26.081	µg/L	-26.081	ppb	12:39:37
2	V 292.402†	299.9	-37.9	-0.2848	µg/L	-0.2848	ppb	12:39:37
2	Zn 213.857†	523.7	12.9	0.1718	µg/L	0.1718	ppb	12:39:57
3	Sc RADIAL	19883.1	19883.1	92.5	%			12:38:34
3	Al 396.153Radial†	-88.4	0.7	1.2617	µg/L	1.2617	ppb	12:38:34
3	Ca 317.933Radial†	65.5	3.7	2.5390	µg/L	2.5390	ppb	12:38:54
3	Fe 238.204 Radial†	27.7	-0.6	-2.0290	µg/L	-2.0290	ppb	12:38:54
3	K 766.490 Radial†	622.7	-7.0	-9.1988	µg/L	-9.1988	ppb	12:38:34
3	Mg 279.077 IEC†	1.1	-2.0	-14.158	µg/L	-14.158	ppb	12:38:54
3	Na 589.592 Radial†	-38.8	-0.0	-0.0192	µg/L	-0.0192	ppb	12:38:34
3	Sr 421.552†	18.1	-18.4	-0.2172	µg/L	-0.2172	ppb	12:38:34
3	Sc 361.383	1170879.7	1170879.7	97.844	%			12:39:59
3	Y 371.029	693296.2	693296.2	98.121	%			12:39:59
3	Ag 328.068†	576.5	-57.0	-0.3791	µg/L	-0.3791	ppb	12:40:01
3	As 188.979†	-2.5	0.1	0.3296	µg/L	0.3296	ppb	12:40:22
3	B 249.677†	287.1	38.1	0.4887	µg/L	0.4887	ppb	12:40:22
3	Ba 233.527†	-71.8	17.0	0.2489	µg/L	0.2489	ppb	12:40:22
3	Be 313.107†	-6647.8	-4.6	-0.0020	µg/L	-0.0020	ppb	12:40:01
3	Cd 226.502†	-81.9	6.1	0.0999	µg/L	0.0999	ppb	12:40:22
3	Co 228.616†	-96.0	7.5	0.2286	µg/L	0.2286	ppb	12:40:22
3	Cr 267.716†	127.9	9.5	0.1969	µg/L	0.1969	ppb	12:40:22
3	Cu 324.752†	3773.0	-166.3	-1.1826	µg/L	-1.1826	ppb	12:40:01
3	Mn 257.610†	200.8	7.2	0.0224	µg/L	0.0224	ppb	12:40:22
3	Mo 202.031†	-15.7	-6.7	-0.8018	µg/L	-0.8018	ppb	12:40:22
3	Ni 231.604†	-11.7	25.8	0.7949	µg/L	0.7949	ppb	12:40:22
3	P 214.914†	-69.1	-2.5	-2.5246	µg/L	-2.5246	ppb	12:40:22
3	Pb 220.353†	103.9	-2.2	-0.4883	µg/L	-0.4883	ppb	12:40:22
3	S 181.975 Axial†	28.1	4.0	13.827	µg/L	13.827	ppb	12:40:22
3	Sb 206.836†	5.8	-0.6	-0.3995	µg/L	-0.3995	ppb	12:40:22
3	Se 196.026†	13.2	-3.4	-4.75	µg/L	-4.75	ppb	12:40:22
3	SiO2†	1770.7	-82.8	-15.619	µg/L	-15.619	ppb	12:40:22
3	Si 251.611†	336.3	-10.9	-0.3181	µg/L	-0.3181	ppb	12:40:22
3	Sn 189.927†	0.7	-3.2	-1.3014	µg/L	-1.3014	ppb	12:40:22
3	Ti 334.940†	1396.7	-93.3	-0.1664	µg/L	-0.1664	ppb	12:40:01
3	Tl 190.801†	-16.1	-0.6	-0.8736	µg/L	-0.8736	ppb	12:40:22
3	U 367.007†	229.3	-85.9	-26.842	µg/L	-26.842	ppb	12:40:01
3	V 292.402†	352.1	14.2	0.0784	µg/L	0.0784	ppb	12:40:01
3	Zn 213.857†	535.4	22.6	0.2962	µg/L	0.2962	ppb	12:40:22

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1167031.8	97.522	%	0.2866				0.29%
Sc RADIAL	20549.0	95.6	%	2.77				2.89%
Y 371.029	690630.3	97.744	%	0.3451				0.35%
Ag 328.068†	-3.0	-0.0064	µg/L	0.44850	-0.0064	ppb	0.44850	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	7.7	13.832	µg/L	10.8898	13.832	ppb	10.8898	78.73%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.5	-3.4829	µg/L	3.61585	-3.4829	ppb	3.61585	103.82%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	41.6	0.5475	µg/L	0.17871	0.5475	ppb	0.17871	32.64%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	7.0	0.1021	µg/L	0.15328	0.1021	ppb	0.15328	150.19%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	140.5	0.0621	µg/L	0.06340	0.0621	ppb	0.06340	102.06%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.7	2.4806	µg/L	0.79848	2.4806	ppb	0.79848	32.19%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-0.3	-0.0043	µg/L	0.15375	-0.0043	ppb	0.15375	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	6.4	0.1970	µg/L	0.11213	0.1970	ppb	0.11213	56.94%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                0.5      0.0215 µg/L       0.31086      0.0215 ppb        0.31086 >999.9%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -190.5     -1.3485 µg/L       0.14390     -1.3485 ppb        0.14390  10.67%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.9     -3.1642 µg/L       5.97406     -3.1642 ppb        5.97406 188.80%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -28.2     -36.840 µg/L       24.4864     -36.840 ppb        24.4864  66.47%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.8     -19.450 µg/L        4.6089     -19.450 ppb         4.6089  23.70%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               10.2      0.0316 µg/L       0.01994      0.0316 ppb        0.01994  63.14%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -5.0     -0.6081 µg/L       1.01624     -0.6081 ppb        1.01624 167.13%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        -0.4     -0.3910 µg/L       9.37483     -0.3910 ppb        9.37483 >999.9%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                5.4      0.1659 µg/L       0.56681      0.1659 ppb        0.56681 341.62%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 9.1      9.2896 µg/L      11.20857      9.2896 ppb       11.20857 120.66%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                4.1      0.9527 µg/L       1.28378      0.9527 ppb        1.28378 134.75%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           0.5      1.8764 µg/L      26.32146      1.8764 ppb       26.32146 >999.9%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -0.1     -0.0531 µg/L       0.79210     -0.0531 ppb        0.79210 >999.9%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -1.9       -2.64 µg/L         3.016       -2.64 ppb          3.016 114.08%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                   -102.1     -19.269 µg/L        3.3829     -19.269 ppb         3.3829  17.56%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               -6.9     -0.2006 µg/L       0.30239     -0.2006 ppb        0.30239 150.78%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -1.5     -0.6178 µg/L       1.01446     -0.6178 ppb        1.01446 164.21%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -5.8     -0.0688 µg/L       0.16567     -0.0688 ppb        0.16567 240.89%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -209.0     -0.3950 µg/L       0.20603     -0.3950 ppb        0.20603  52.16%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                0.2      0.3121 µg/L       3.75559      0.3121 ppb        3.75559 >999.9%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -54.9     -17.148 µg/L       16.1360     -17.148 ppb        16.1360  94.10%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -18.5     -0.1524 µg/L       0.20065     -0.1524 ppb        0.20065 131.63%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               15.5      0.2067 µg/L       0.07811      0.2067 ppb        0.07811  37.79%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 13 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 12:40:30**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20782.1	20782.1	96.7	%			12:41:01
1	Al 396.153Radial†	3227.6	3433.4	6136.1	µg/L	6136.1	ppb	12:41:21
1	Ca 317.933Radial†	7276.5	7456.5	5049.0	µg/L	5049.0	ppb	12:41:21
1	Fe 238.204 Radial†	1504.1	1524.6	5156.9	µg/L	5156.9	ppb	12:41:21
1	K 766.490 Radial†	4557.3	4032.1	5271.5	µg/L	5271.5	ppb	12:41:01
1	Mg 279.077 IEC†	728.9	750.4	5268.9	µg/L	5268.9	ppb	12:41:21
1	Na 589.592 Radial†	13560.6	14062.8	13540	µg/L	13540	ppb	12:41:01
1	Sr 421.552†	41466.6	42836.2	504.71	µg/L	504.71	ppb	12:41:01
1	Sc 361.383	1135162.6	1135162.6	94.859	%			12:42:23
1	Y 371.029	658199.4	658199.4	93.154	%			12:42:23
1	Ag 328.068†	67916.4	70950.7	502.98	µg/L	502.98	ppb	12:42:25
1	As 188.979†	193.1	206.3	476.77	µg/L	476.77	ppb	12:42:45
1	B 249.677†	36593.0	38320.9	458.85	µg/L	458.85	ppb	12:42:25
1	Ba 233.527†	31106.3	32882.4	481.02	µg/L	481.02	ppb	12:42:25
1	Be 313.107†	1034579.2	1097435.0	485.26	µg/L	485.26	ppb	12:42:23
1	Cd 226.502†	27546.2	29128.8	470.26	µg/L	470.26	ppb	12:42:25
1	Co 228.616†	14943.2	15858.6	484.19	µg/L	484.19	ppb	12:42:45
1	Cr 267.716†	24157.0	25344.9	480.55	µg/L	480.55	ppb	12:42:25
1	Cu 324.752†	70469.2	70265.7	495.55	µg/L	495.55	ppb	12:42:25
1	Mn 257.610†	151915.2	159949.7	486.95	µg/L	486.95	ppb	12:42:25
1	Mo 202.031†	3886.5	4106.6	494.53	µg/L	494.53	ppb	12:42:45
1	Ni 231.604†	14722.6	15558.1	479.02	µg/L	479.02	ppb	12:42:25
1	P 214.914†	2157.3	2342.4	2382.2	µg/L	2382.2	ppb	12:42:45
1	Pb 220.353†	2143.8	2151.6	489.84	µg/L	489.84	ppb	12:42:45
1	S 181.975 Axial†	291.7	282.8	968.82	µg/L	968.82	ppb	12:42:45
1	Sb 206.836†	737.0	770.4	490.82	µg/L	490.82	ppb	12:42:45
1	Se 196.026†	342.5	344.2	489	µg/L	489	ppb	12:42:45
1	SiO2†	27156.3	26735.6	5055.5	µg/L	5055.5	ppb	12:42:25
1	Si 251.611†	74971.9	78680.1	2359.5	µg/L	2359.5	ppb	12:42:25
1	Sn 189.927†	1122.6	1179.5	477.50	µg/L	477.50	ppb	12:42:45
1	Ti 334.940†	240526.6	252040.6	486.91	µg/L	486.91	ppb	12:42:25
1	Tl 190.801†	319.4	352.6	483.49	µg/L	483.49	ppb	12:42:45
1	U 367.007†	1771.6	1547.4	454.33	µg/L	454.33	ppb	12:42:25
1	V 292.402†	63257.0	66339.4	490.75	µg/L	490.75	ppb	12:42:25
1	Zn 213.857†	34921.9	36289.8	477.95	µg/L	477.95	ppb	12:42:25
2	Sc RADIAL	20980.1	20980.1	97.6	%			12:41:23
2	Al 396.153Radial†	3199.0	3372.6	6027.1	µg/L	6027.1	ppb	12:41:43
2	Ca 317.933Radial†	7230.5	7338.4	4969.0	µg/L	4969.0	ppb	12:41:43
2	Fe 238.204 Radial†	1486.0	1491.4	5043.9	µg/L	5043.9	ppb	12:41:43
2	K 766.490 Radial†	4712.2	4146.2	5421.0	µg/L	5421.0	ppb	12:41:23
2	Mg 279.077 IEC†	719.1	733.3	5148.6	µg/L	5148.6	ppb	12:41:43
2	Na 589.592 Radial†	13902.5	14280.6	13749	µg/L	13749	ppb	12:41:23
2	Sr 421.552†	42925.5	43925.7	517.54	µg/L	517.54	ppb	12:41:23
2	Sc 361.383	1181937.2	1181937.2	98.768	%			12:42:47
2	Y 371.029	684428.6	684428.6	96.866	%			12:42:47
2	Ag 328.068†	73128.1	73394.1	520.32	µg/L	520.32	ppb	12:42:50
2	As 188.979†	214.0	219.4	506.76	µg/L	506.76	ppb	12:43:10
2	B 249.677†	39583.9	39822.4	478.02	µg/L	478.02	ppb	12:42:50
2	Ba 233.527†	34012.0	34526.6	505.06	µg/L	505.06	ppb	12:42:50
2	Be 313.107†	1087641.1	1107997.0	489.93	µg/L	489.93	ppb	12:42:47
2	Cd 226.502†	30213.4	30680.1	495.36	µg/L	495.36	ppb	12:42:50
2	Co 228.616†	16034.1	16339.7	498.88	µg/L	498.88	ppb	12:43:10
2	Cr 267.716†	26207.7	26413.3	500.80	µg/L	500.80	ppb	12:42:50
2	Cu 324.752†	76164.3	73092.0	515.44	µg/L	515.44	ppb	12:42:50
2	Mn 257.610†	165455.2	167320.9	509.40	µg/L	509.40	ppb	12:42:50
2	Mo 202.031†	4175.8	4237.3	510.26	µg/L	510.26	ppb	12:43:10
2	Ni 231.604†	16065.5	16303.7	501.98	µg/L	501.98	ppb	12:42:50
2	P 214.914†	2315.1	2412.1	2453.4	µg/L	2453.4	ppb	12:43:10
2	Pb 220.353†	2305.1	2225.4	506.62	µg/L	506.62	ppb	12:43:10

2	S 181.975 Axial†	314.0	293.1	1004.3 µg/L	1004.3 ppb		12:43:10
2	Sb 206.836†	784.1	787.4	501.57 µg/L	501.57 ppb		12:43:10
2	Se 196.026†	362.0	349.6	496 µg/L	496 ppb		12:43:10
2	SiO2†	29380.3	27854.3	5267.1 µg/L	5267.1 ppb		12:42:50
2	Si 251.611†	81248.1	81906.8	2456.3 µg/L	2456.3 ppb		12:42:50
2	Sn 189.927†	1208.5	1219.6	493.73 µg/L	493.73 ppb		12:43:10
2	Ti 334.940†	260357.9	262084.6	506.30 µg/L	506.30 ppb		12:42:50
2	Tl 190.801†	341.2	361.3	495.34 µg/L	495.34 ppb		12:43:10
2	U 367.007†	1907.7	1611.3	474.84 µg/L	474.84 ppb		12:42:50
2	V 292.402†	68661.6	69172.4	511.60 µg/L	511.60 ppb		12:42:50
2	Zn 213.857†	37965.5	37914.4	499.38 µg/L	499.38 ppb		12:42:50
3	Sc RADIAL	21419.4	21419.4	99.7 %			12:41:45
3	Al 396.153Radial†	3179.3	3285.7	5871.9 µg/L	5871.9 ppb		12:42:05
3	Ca 317.933Radial†	7179.0	7134.9	4831.3 µg/L	4831.3 ppb		12:42:05
3	Fe 238.204 Radial†	1488.5	1462.7	4946.9 µg/L	4946.9 ppb		12:42:05
3	K 766.490 Radial†	4784.1	4119.3	5385.3 µg/L	5385.3 ppb		12:41:45
3	Mg 279.077 IEC†	716.1	715.2	5021.5 µg/L	5021.5 ppb		12:42:05
3	Na 589.592 Radial†	14138.0	14224.8	13696 µg/L	13696 ppb		12:41:45
3	Sr 421.552†	43295.9	43395.7	511.30 µg/L	511.30 ppb		12:41:45
3	Sc 361.383	1217546.7	1217546.7	101.74 %			12:43:12
3	Y 371.029	705892.2	705892.2	99.904 %			12:43:12
3	Ag 328.068†	71674.1	69799.6	494.82 µg/L	494.82 ppb		12:43:14
3	As 188.979†	218.1	217.1	501.16 µg/L	501.16 ppb		12:43:34
3	B 249.677†	39007.8	38084.0	456.63 µg/L	456.63 ppb		12:43:14
3	Ba 233.527†	33343.2	32862.1	480.71 µg/L	480.71 ppb		12:43:14
3	Be 313.107†	1107487.8	1095296.6	484.31 µg/L	484.31 ppb		12:43:12
3	Cd 226.502†	29756.3	29336.2	473.64 µg/L	473.64 ppb		12:43:14
3	Co 228.616†	15997.6	15829.0	483.29 µg/L	483.29 ppb		12:43:34
3	Cr 267.716†	25846.6	25282.4	479.35 µg/L	479.35 ppb		12:43:14
3	Cu 324.752†	74778.2	69474.2	489.96 µg/L	489.96 ppb		12:43:14
3	Mn 257.610†	162143.3	159166.3	484.57 µg/L	484.57 ppb		12:43:14
3	Mo 202.031†	4140.2	4078.6	491.15 µg/L	491.15 ppb		12:43:34
3	Ni 231.604†	15862.1	15628.0	481.17 µg/L	481.17 ppb		12:43:14
3	P 214.914†	2310.1	2338.7	2378.7 µg/L	2378.7 ppb		12:43:34
3	Pb 220.353†	2287.4	2139.7	487.11 µg/L	487.11 ppb		12:43:34
3	S 181.975 Axial†	315.6	285.5	978.10 µg/L	978.10 ppb		12:43:34
3	Sb 206.836†	787.0	767.0	488.59 µg/L	488.59 ppb		12:43:34
3	Se 196.026†	357.0	334.1	474 µg/L	474 ppb		12:43:34
3	SiO2†	28796.6	26410.6	4994.2 µg/L	4994.2 ppb		12:43:14
3	Si 251.611†	79656.3	77936.4	2337.2 µg/L	2337.2 ppb		12:43:14
3	Sn 189.927†	1223.4	1198.5	485.17 µg/L	485.17 ppb		12:43:34
3	Ti 334.940†	255441.3	249542.7	482.06 µg/L	482.06 ppb		12:43:14
3	Tl 190.801†	349.8	359.6	493.24 µg/L	493.24 ppb		12:43:34
3	U 367.007†	1945.4	1591.9	469.37 µg/L	469.37 ppb		12:43:14
3	V 292.402†	67373.3	65873.0	487.30 µg/L	487.30 ppb		12:43:14
3	Zn 213.857†	37111.9	35951.2	473.48 µg/L	473.48 ppb		12:43:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1178215.5	98.457	%	3.4527				3.51%
Sc RADIAL	21060.5	98.0	%	1.52				1.55%
Y 371.029	682840.1	96.641	%	3.3805				3.50%
Ag 328.068†	71381.5	506.04	µg/L	13.021	506.04	ppb	13.021	2.57%
QC value within limits for Ag 328.068 Recovery = 101.21%								
Al 396.153Radial†	3363.9	6011.7	µg/L	132.82	6011.7	ppb	132.82	2.21%
QC value greater than the upper limit for Al 396.153Radial Recovery = 120.23%								
As 188.979†	214.3	494.90	µg/L	15.943	494.90	ppb	15.943	3.22%
QC value within limits for As 188.979 Recovery = 98.98%								
B 249.677†	38742.4	464.50	µg/L	11.762	464.50	ppb	11.762	2.53%
QC value within limits for B 249.677 Recovery = 92.90%								
Ba 233.527†	33423.7	488.93	µg/L	13.972	488.93	ppb	13.972	2.86%
QC value within limits for Ba 233.527 Recovery = 97.79%								
Be 313.107†	1100242.9	486.50	µg/L	3.007	486.50	ppb	3.007	0.62%
QC value within limits for Be 313.107 Recovery = 97.30%								
Ca 317.933Radial†	7309.9	4949.8	µg/L	110.15	4949.8	ppb	110.15	2.23%
QC value within limits for Ca 317.933Radial Recovery = 99.00%								
Cd 226.502†	29715.0	479.75	µg/L	13.618	479.75	ppb	13.618	2.84%
QC value within limits for Cd 226.502 Recovery = 95.95%								
Co 228.616†	16009.1	488.79	µg/L	8.750	488.79	ppb	8.750	1.79%

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   QC value within limits for Co 228.616  Recovery = 97.76%
Cr 267.716†            25680.2      486.90 µg/L        12.052      486.90 ppb         12.052   2.48%
   QC value within limits for Cr 267.716  Recovery = 97.38%
Cu 324.752†            70943.9      500.32 µg/L        13.390      500.32 ppb         13.390   2.68%
   QC value within limits for Cu 324.752  Recovery = 100.06%
Fe 238.204 Radial†      1492.9      5049.3 µg/L        105.12      5049.3 ppb         105.12   2.08%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.99%
K 766.490 Radial†       4099.2      5359.3 µg/L         78.09      5359.3 ppb          78.09   1.46%
   QC value within limits for K 766.490 Radial  Recovery = 107.19%
Mg 279.077 IEC†          733.0      5146.3 µg/L        123.72      5146.3 ppb         123.72   2.40%
   QC value within limits for Mg 279.077 IEC  Recovery = 102.93%
Mn 257.610†           162145.7      493.64 µg/L        13.699      493.64 ppb         13.699   2.78%
   QC value within limits for Mn 257.610  Recovery = 98.73%
Mo 202.031†             4140.8      498.65 µg/L        10.196      498.65 ppb         10.196   2.04%
   QC value within limits for Mo 202.031  Recovery = 99.73%
Na 589.592 Radial†     14189.4       13661 µg/L         108.9       13661 ppb          108.9   0.80%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 136.61%
Ni 231.604†            15829.9      487.39 µg/L        12.678      487.39 ppb         12.678   2.60%
   QC value within limits for Ni 231.604  Recovery = 97.48%
P 214.914†              2364.4      2404.8 µg/L         42.15      2404.8 ppb          42.15   1.75%
   QC value within limits for P 214.914  Recovery = 96.19%
Pb 220.353†             2172.2      494.52 µg/L        10.566      494.52 ppb         10.566   2.14%
   QC value within limits for Pb 220.353  Recovery = 98.90%
S 181.975 Axial†         287.1      983.76 µg/L        18.429      983.76 ppb         18.429   1.87%
   QC value within limits for S 181.975 Axial  Recovery = 98.38%
Sb 206.836†              774.9      493.66 µg/L         6.940      493.66 ppb          6.940   1.41%
   QC value within limits for Sb 206.836  Recovery = 98.73%
Se 196.026†              342.6         487 µg/L          11.2         487 ppb           11.2   2.31%
   QC value within limits for Se 196.026  Recovery = 97.31%
SiO2†                  27000.2      5105.6 µg/L        143.17      5105.6 ppb         143.17   2.80%
   QC value within limits for SiO2  Recovery = 95.48%
Si 251.611†            79507.8      2384.3 µg/L         63.32      2384.3 ppb          63.32   2.66%
   QC value within limits for Si 251.611  Recovery = 95.37%
Sn 189.927†             1199.2      485.46 µg/L         8.119      485.46 ppb          8.119   1.67%
   QC value within limits for Sn 189.927  Recovery = 97.09%
Sr 421.552†            43385.9      511.18 µg/L         6.420      511.18 ppb          6.420   1.26%
   QC value within limits for Sr 421.552  Recovery = 102.24%
Ti 334.940†           254556.0      491.75 µg/L        12.824      491.75 ppb         12.824   2.61%
   QC value within limits for Ti 334.940  Recovery = 98.35%
Tl 190.801†              357.8      490.69 µg/L         6.326      490.69 ppb          6.326   1.29%
   QC value within limits for Tl 190.801  Recovery = 98.14%
U 367.007†              1583.5      466.18 µg/L        10.619      466.18 ppb         10.619   2.28%
   QC value within limits for U 367.007  Recovery = 93.24%
V 292.402†             67128.2      496.55 µg/L        13.146      496.55 ppb         13.146   2.65%
   QC value within limits for V 292.402  Recovery = 99.31%
Zn 213.857†            36718.5      483.60 µg/L        13.848      483.60 ppb         13.848   2.86%
   QC value within limits for Zn 213.857  Recovery = 96.72%
QC Failed.  Continue with analysis.
```

Sequence No.: 14 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 12:43:42**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20978.3	20978.3	97.6	%			12:44:29
1	Al 396.153Radial†	-87.9	6.2	11.122	µg/L	11.122	ppb	12:44:29
1	Ca 317.933Radial†	74.2	9.0	6.0941	µg/L	6.0941	ppb	12:44:49
1	Fe 238.204 Radial†	26.1	-3.8	-12.762	µg/L	-12.762	ppb	12:44:49
1	K 766.490 Radial†	600.3	-65.1	-85.024	µg/L	-85.024	ppb	12:44:29
1	Mg 279.077 IEC†	1.9	-1.3	-8.9588	µg/L	-8.9588	ppb	12:44:49
1	Na 589.592 Radial†	-22.1	19.2	18.495	µg/L	18.495	ppb	12:44:29
1	Sr 421.552†	47.5	10.7	0.1255	µg/L	0.1255	ppb	12:44:29
1	Sc 361.383	1176536.2	1176536.2	98.317	%			12:46:27
1	Y 371.029	696182.4	696182.4	98.530	%			12:46:27
1	Ag 328.068†	438.2	-200.4	-1.4140	µg/L	-1.4140	ppb	12:46:29
1	As 188.979†	-8.4	-5.8	-13.198	µg/L	-13.198	ppb	12:46:49
1	B 249.677†	356.0	106.9	1.4169	µg/L	1.4169	ppb	12:46:49
1	Ba 233.527†	-77.5	11.6	0.1692	µg/L	0.1692	ppb	12:46:49
1	Be 313.107†	-6422.7	257.0	0.1137	µg/L	0.1137	ppb	12:46:29
1	Cd 226.502†	-88.3	-0.0	0.0010	µg/L	0.0010	ppb	12:46:49
1	Co 228.616†	-111.5	-7.8	-0.2367	µg/L	-0.2367	ppb	12:46:49
1	Cr 267.716†	133.1	14.2	0.2711	µg/L	0.2711	ppb	12:46:49
1	Cu 324.752†	3848.6	-107.9	-0.7630	µg/L	-0.7630	ppb	12:46:29
1	Mn 257.610†	203.2	8.6	0.0262	µg/L	0.0262	ppb	12:46:49
1	Mo 202.031†	-12.3	-3.1	-0.3677	µg/L	-0.3677	ppb	12:46:49
1	Ni 231.604†	-65.7	-29.0	-0.8944	µg/L	-0.8944	ppb	12:46:49
1	P 214.914†	-59.9	7.2	7.4045	µg/L	7.4045	ppb	12:46:49
1	Pb 220.353†	98.6	-8.1	-1.8450	µg/L	-1.8450	ppb	12:46:49
1	S 181.975 Axial†	16.0	-8.5	-29.228	µg/L	-29.228	ppb	12:46:49
1	Sb 206.836†	0.9	-5.6	-3.5933	µg/L	-3.5933	ppb	12:46:49
1	Se 196.026†	14.3	-2.3	-3.23	µg/L	-3.23	ppb	12:46:49
1	SiO2†	1806.0	-55.6	-10.484	µg/L	-10.484	ppb	12:46:49
1	Si 251.611†	348.3	-0.3	-0.0069	µg/L	-0.0069	ppb	12:46:49
1	Sn 189.927†	1.3	-2.5	-1.0300	µg/L	-1.0300	ppb	12:46:49
1	Ti 334.940†	1172.6	-328.0	-0.6316	µg/L	-0.6316	ppb	12:46:29
1	Tl 190.801†	-16.7	-1.1	-1.5772	µg/L	-1.5772	ppb	12:46:49
1	U 367.007†	301.9	-13.1	-4.0447	µg/L	-4.0447	ppb	12:46:29
1	V 292.402†	341.9	2.1	0.0077	µg/L	0.0077	ppb	12:46:29
1	Zn 213.857†	522.5	6.8	0.0976	µg/L	0.0976	ppb	12:46:49
2	Sc RADIAL	20958.7	20958.7	97.5	%			12:45:10
2	Al 396.153Radial†	-73.9	20.5	36.578	µg/L	36.578	ppb	12:45:10
2	Ca 317.933Radial†	73.4	8.2	5.5798	µg/L	5.5798	ppb	12:45:30
2	Fe 238.204 Radial†	26.7	-3.1	-10.675	µg/L	-10.675	ppb	12:45:30
2	K 766.490 Radial†	619.8	-44.6	-58.252	µg/L	-58.252	ppb	12:45:10
2	Mg 279.077 IEC†	-0.4	-3.6	-25.529	µg/L	-25.529	ppb	12:45:30
2	Na 589.592 Radial†	-36.5	4.4	4.2757	µg/L	4.2757	ppb	12:45:10
2	Sr 421.552†	39.9	2.9	0.0345	µg/L	0.0345	ppb	12:45:10
2	Sc 361.383	1182186.9	1182186.9	98.789	%			12:46:51
2	Y 371.029	699569.4	699569.4	99.009	%			12:46:51
2	Ag 328.068†	512.2	-127.7	-0.9008	µg/L	-0.9008	ppb	12:46:53
2	As 188.979†	-4.0	-1.3	-3.0589	µg/L	-3.0589	ppb	12:47:13
2	B 249.677†	358.5	107.7	1.4086	µg/L	1.4086	ppb	12:47:13
2	Ba 233.527†	-86.1	3.2	0.0476	µg/L	0.0476	ppb	12:47:13
2	Be 313.107†	-6394.5	316.9	0.1401	µg/L	0.1401	ppb	12:46:53
2	Cd 226.502†	-87.8	1.0	0.0170	µg/L	0.0170	ppb	12:47:13
2	Co 228.616†	-104.8	-0.5	-0.0153	µg/L	-0.0153	ppb	12:47:13
2	Cr 267.716†	116.4	-3.5	-0.0642	µg/L	-0.0642	ppb	12:47:13
2	Cu 324.752†	3842.0	-133.2	-0.9399	µg/L	-0.9399	ppb	12:46:53
2	Mn 257.610†	204.9	9.3	0.0291	µg/L	0.0291	ppb	12:47:13
2	Mo 202.031†	-15.2	-6.0	-0.7189	µg/L	-0.7189	ppb	12:47:13
2	Ni 231.604†	-48.4	-11.2	-0.3460	µg/L	-0.3460	ppb	12:47:13
2	P 214.914†	-55.4	12.0	12.343	µg/L	12.343	ppb	12:47:13
2	Pb 220.353†	106.1	-1.0	-0.2238	µg/L	-0.2238	ppb	12:47:13

2	S 181.975 Axial†	20.0	-4.5	-15.369 µg/L	-15.369 ppb	12:47:13
2	Sb 206.836†	4.4	-2.1	-1.3329 µg/L	-1.3329 ppb	12:47:13
2	Se 196.026†	12.0	-4.7	-6.63 µg/L	-6.63 ppb	12:47:13
2	SiO2†	1774.8	-95.9	-18.094 µg/L	-18.094 ppb	12:47:13
2	Si 251.611†	357.3	7.0	0.2199 µg/L	0.2199 ppb	12:47:13
2	Sn 189.927†	5.4	1.5	0.6142 µg/L	0.6142 ppb	12:47:13
2	Ti 334.940†	1396.8	-106.8	-0.2048 µg/L	-0.2048 ppb	12:46:53
2	Tl 190.801†	-15.1	0.5	0.7556 µg/L	0.7556 ppb	12:47:13
2	U 367.007†	309.4	-6.9	-2.1178 µg/L	-2.1178 ppb	12:46:53
2	V 292.402†	390.3	49.5	0.3484 µg/L	0.3484 ppb	12:46:53
2	Zn 213.857†	536.7	18.6	0.2512 µg/L	0.2512 ppb	12:47:13
3	Sc RADIAL	20864.4	20864.4	97.1 %		12:45:50
3	Al 396.153Radial†	-80.2	13.6	24.399 µg/L	24.399 ppb	12:45:50
3	Ca 317.933Radial†	74.5	9.7	6.6100 µg/L	6.6100 ppb	12:46:10
3	Fe 238.204 Radial†	31.0	1.3	4.5305 µg/L	4.5305 ppb	12:46:10
3	K 766.490 Radial†	604.5	-57.5	-75.039 µg/L	-75.039 ppb	12:45:50
3	Mg 279.077 IEC†	-0.6	-3.8	-26.679 µg/L	-26.679 ppb	12:46:10
3	Na 589.592 Radial†	-54.5	-14.2	-13.707 µg/L	-13.707 ppb	12:45:50
3	Sr 421.552†	44.4	7.7	0.0906 µg/L	0.0906 ppb	12:45:50
3	Sc 361.383	1178819.2	1178819.2	98.508 %		12:47:15
3	Y 371.029	697530.9	697530.9	98.720 %		12:47:15
3	Ag 328.068†	544.7	-93.2	-0.6630 µg/L	-0.6630 ppb	12:47:17
3	As 188.979†	0.3	3.1	6.9383 µg/L	6.9383 ppb	12:47:37
3	B 249.677†	292.7	42.0	0.5385 µg/L	0.5385 ppb	12:47:37
3	Ba 233.527†	-80.0	9.1	0.1334 µg/L	0.1334 ppb	12:47:37
3	Be 313.107†	-6507.3	183.8	0.0813 µg/L	0.0813 ppb	12:47:17
3	Cd 226.502†	-91.7	-3.3	-0.0532 µg/L	-0.0532 ppb	12:47:37
3	Co 228.616†	-95.5	8.6	0.2628 µg/L	0.2628 ppb	12:47:37
3	Cr 267.716†	133.6	14.4	0.2716 µg/L	0.2716 ppb	12:47:37
3	Cu 324.752†	3885.4	-78.1	-0.5468 µg/L	-0.5468 ppb	12:47:17
3	Mn 257.610†	207.5	12.5	0.0393 µg/L	0.0393 ppb	12:47:37
3	Mo 202.031†	-15.9	-6.7	-0.8063 µg/L	-0.8063 ppb	12:47:37
3	Ni 231.604†	-25.4	12.0	0.3691 µg/L	0.3691 ppb	12:47:37
3	P 214.914†	-56.9	10.4	10.640 µg/L	10.640 ppb	12:47:37
3	Pb 220.353†	106.3	-0.6	-0.1346 µg/L	-0.1346 ppb	12:47:37
3	S 181.975 Axial†	18.9	-5.5	-19.101 µg/L	-19.101 ppb	12:47:37
3	Sb 206.836†	3.0	-3.5	-2.2180 µg/L	-2.2180 ppb	12:47:37
3	Se 196.026†	16.0	-0.6	-0.856 µg/L	-0.856 ppb	12:47:37
3	SiO2†	1778.3	-87.2	-16.459 µg/L	-16.459 ppb	12:47:37
3	Si 251.611†	391.9	43.2	1.3087 µg/L	1.3087 ppb	12:47:37
3	Sn 189.927†	4.4	0.5	0.2216 µg/L	0.2216 ppb	12:47:37
3	Ti 334.940†	1276.0	-225.3	-0.4370 µg/L	-0.4370 ppb	12:47:17
3	Tl 190.801†	-13.5	2.2	2.9784 µg/L	2.9784 ppb	12:47:37
3	U 367.007†	327.1	11.9	3.6850 µg/L	3.6850 ppb	12:47:17
3	V 292.402†	343.0	2.6	0.0128 µg/L	0.0128 ppb	12:47:17
3	Zn 213.857†	539.2	22.7	0.2991 µg/L	0.2991 ppb	12:47:37

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1179180.8	98.538	%	0.2375				0.24%
Sc RADIAL	20933.8	97.4	%	0.28				0.29%
Y 371.029	697760.9	98.753	%	0.2413				0.24%
Ag 328.068†	-140.4	-0.9926	µg/L	0.38380	-0.9926	ppb	0.38380	38.67%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	13.4	24.033	µg/L	12.7324	24.033	ppb	12.7324	52.98%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.4	-3.1063	µg/L	10.06836	-3.1063	ppb	10.06836	324.13%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	85.5	1.1213	µg/L	0.50480	1.1213	ppb	0.50480	45.02%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.0	0.1167	µg/L	0.06250	0.1167	ppb	0.06250	53.53%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	252.6	0.1117	µg/L	0.02946	0.1117	ppb	0.02946	26.38%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	9.0	6.0946	µg/L	0.51511	6.0946	ppb	0.51511	8.45%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-0.8	-0.0117	µg/L	0.03677	-0.0117	ppb	0.03677	313.20%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	0.1	0.0036	µg/L	0.25029	0.0036	ppb	0.25029	>999.9%

```
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                8.4      0.1595 µg/L       0.19375      0.1595 ppb        0.19375 121.49%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -106.4     -0.7499 µg/L       0.19689     -0.7499 ppb        0.19689  26.26%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -1.9     -6.3020 µg/L       9.43907     -6.3020 ppb        9.43907 149.78%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -55.7     -72.772 µg/L       13.5292     -72.772 ppb        13.5292  18.59%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.9     -20.389 µg/L        9.9157     -20.389 ppb         9.9157  48.63%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               10.2      0.0316 µg/L       0.00687      0.0316 ppb        0.00687  21.78%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -5.2     -0.6309 µg/L       0.23216     -0.6309 ppb        0.23216  36.80%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         3.1      3.0213 µg/L      16.13776      3.0213 ppb       16.13776 534.13%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -9.4     -0.2904 µg/L       0.63358     -0.2904 ppb        0.63358 218.16%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 9.9      10.129 µg/L        2.5088      10.129 ppb         2.5088  24.77%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -3.2     -0.7344 µg/L       0.96276     -0.7344 ppb        0.96276 131.09%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -6.2     -21.233 µg/L        7.1712     -21.233 ppb         7.1712  33.77%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -3.7     -2.3814 µg/L       1.13902     -2.3814 ppb        1.13902  47.83%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -2.5       -3.57 µg/L         2.902       -3.57 ppb          2.902  81.22%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -79.6     -15.013 µg/L        4.0060     -15.013 ppb         4.0060  26.68%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               16.6      0.5072 µg/L       0.70332      0.5072 ppb        0.70332 138.66%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -0.2     -0.0647 µg/L       0.85868     -0.0647 ppb        0.85868 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                7.1      0.0835 µg/L       0.04591      0.0835 ppb        0.04591  54.97%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -220.1     -0.4245 µg/L       0.21366     -0.4245 ppb        0.21366  50.34%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                0.5      0.7189 µg/L       2.27804      0.7189 ppb        2.27804 316.87%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -2.7     -0.8258 µg/L       4.02352     -0.8258 ppb        4.02352 487.20%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                18.1      0.1230 µg/L       0.19528      0.1230 ppb        0.19528 158.81%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               16.0      0.2160 µg/L       0.10529      0.2160 ppb        0.10529  48.75%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 18 **Autosampler Location: 103**
Sample ID: ICSA **Date Collected: 11/7/2013 13:01:57**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	19823.4	19823.4	92.3	%			13:02:31
1	Al 396.153Radial†	304821.9	330507.4	591140	µg/L	591140	ppb	13:02:29
1	Ca 317.933Radial†	629034.8	681774.3	461650	µg/L	461650	ppb	13:02:29
1	Fe 238.204 Radial†	50776.2	55008.3	186600	µg/L	186600	ppb	13:02:31
1	K 766.490 Radial†	450.1	-192.1	-269.37	µg/L	-269.37	ppb	13:02:31
1	Mg 279.077 IEC†	63080.2	68372.5	480000	µg/L	480000	ppb	13:02:31
1	Na 589.592 Radial†	-0.4	41.4	38.448	µg/L	38.448	ppb	13:02:31
1	Sr 421.552†	271.0	255.7	-0.5842	µg/L	-0.5842	ppb	13:02:31
1	Sc 361.383	1088592.0	1088592.0	90.968	%			13:02:57
1	Y 371.029	628868.4	628868.4	89.003	%			13:02:57
1	Ag 328.068†	2431.6	2026.8	-0.2937	µg/L	-0.2937	ppb	13:02:57
1	As 188.979†	-18.3	-17.4	-7.6922	µg/L	-7.6922	ppb	13:03:17
1	B 249.677†	47922.2	52425.2	-48.045	µg/L	-48.045	ppb	13:02:57
1	Ba 233.527†	136.5	240.5	1.2598	µg/L	1.2598	ppb	13:03:17
1	Be 313.107†	-6824.8	-712.8	-0.3152	µg/L	-0.3152	ppb	13:02:57
1	Cd 226.502†	1327.5	1549.1	0.6186	µg/L	0.6186	ppb	13:03:17
1	Co 228.616†	-54.0	46.3	-0.1791	µg/L	-0.1791	ppb	13:03:17
1	Cr 267.716†	154.5	48.6	2.1932	µg/L	2.1932	ppb	13:03:17
1	Cu 324.752†	-1261.0	-5408.6	-9.0035	µg/L	-9.0035	ppb	13:03:17
1	Mn 257.610†	2742.5	2816.7	-5.0985	µg/L	-5.0985	ppb	13:02:57
1	Mo 202.031†	-175.7	-183.7	-1.9992	µg/L	-1.9992	ppb	13:03:17
1	Ni 231.604†	-4.5	32.9	0.0283	µg/L	0.0283	ppb	13:03:17
1	P 214.914†	36.6	108.3	-11.176	µg/L	-11.176	ppb	13:03:17
1	Pb 220.353†	64.1	-37.9	11.111	µg/L	11.111	ppb	13:03:17
1	S 181.975 Axial†	65.7	47.4	-8.5500	µg/L	-8.5500	ppb	13:03:17
1	Sb 206.836†	10.9	5.4	8.8656	µg/L	8.8656	ppb	13:03:17
1	Se 196.026†	-44.8	-66.0	-28.5	µg/L	-28.5	ppb	13:03:17
1	SiO2†	1596.4	-137.6	-25.951	µg/L	-25.951	ppb	13:03:17
1	Si 251.611†	713.2	429.4	34.653	µg/L	34.653	ppb	13:03:17
1	Sn 189.927†	-108.1	-122.8	-7.5365	µg/L	-7.5365	ppb	13:03:17
1	Ti 334.940†	-7872.2	-10174.5	1.6382	µg/L	1.6382	ppb	13:02:57
1	Tl 190.801†	-17.7	-3.7	-9.4007	µg/L	-9.4007	ppb	13:03:17
1	U 367.007†	3590.7	3627.1	88.189	µg/L	88.189	ppb	13:02:57
1	V 292.402†	-2981.4	-3623.0	2.5316	µg/L	2.5316	ppb	13:03:17
1	Zn 213.857†	2383.4	2095.4	0.1850	µg/L	0.1850	ppb	13:03:17
2	Sc RADIAL	20289.0	20289.0	94.4	%			13:02:35
2	Al 396.153Radial†	317281.6	336120.4	601180	µg/L	601180	ppb	13:02:33
2	Ca 317.933Radial†	656444.2	695155.0	470710	µg/L	470710	ppb	13:02:33
2	Fe 238.204 Radial†	52177.1	55228.8	187350	µg/L	187350	ppb	13:02:35
2	K 766.490 Radial†	446.4	-207.2	-289.24	µg/L	-289.24	ppb	13:02:35
2	Mg 279.077 IEC†	65119.7	68963.2	484150	µg/L	484150	ppb	13:02:35
2	Na 589.592 Radial†	-14.8	26.2	23.808	µg/L	23.808	ppb	13:02:35
2	Sr 421.552†	241.2	217.5	-1.1055	µg/L	-1.1055	ppb	13:02:35
2	Sc 361.383	1094153.9	1094153.9	91.432	%			13:03:19
2	Y 371.029	632287.2	632287.2	89.487	%			13:03:19
2	Ag 328.068†	2688.6	2294.4	1.3790	µg/L	1.3790	ppb	13:03:19
2	As 188.979†	-18.8	-17.8	-8.5516	µg/L	-8.5516	ppb	13:03:40
2	B 249.677†	47996.5	52238.7	-53.185	µg/L	-53.185	ppb	13:03:19
2	Ba 233.527†	101.5	201.4	0.6811	µg/L	0.6811	ppb	13:03:40
2	Be 313.107†	-6888.4	-744.1	-0.3290	µg/L	-0.3290	ppb	13:03:19
2	Cd 226.502†	1349.2	1565.5	0.7854	µg/L	0.7854	ppb	13:03:40
2	Co 228.616†	-52.4	48.2	-0.1251	µg/L	-0.1251	ppb	13:03:40
2	Cr 267.716†	137.1	28.7	1.8160	µg/L	1.8160	ppb	13:03:40
2	Cu 324.752†	-1293.2	-5436.7	-9.0870	µg/L	-9.0870	ppb	13:03:40
2	Mn 257.610†	2804.2	2868.9	-5.0776	µg/L	-5.0776	ppb	13:03:19
2	Mo 202.031†	-174.6	-181.5	-1.5779	µg/L	-1.5779	ppb	13:03:40
2	Ni 231.604†	27.1	67.4	1.0887	µg/L	1.0887	ppb	13:03:40
2	P 214.914†	27.5	98.2	-20.377	µg/L	-20.377	ppb	13:03:40
2	Pb 220.353†	60.9	-41.9	10.642	µg/L	10.642	ppb	13:03:40

2	S 181.975 Axial†	71.7	53.7	10.581	µg/L	10.581	ppb	13:03:40
2	Sb 206.836†	13.7	8.4	10.803	µg/L	10.803	ppb	13:03:40
2	Se 196.026†	-30.4	-50.1	-5.64	µg/L	-5.64	ppb	13:03:40
2	SiO2†	1602.6	-139.7	-26.354	µg/L	-26.354	ppb	13:03:40
2	Si 251.611†	682.4	391.6	33.600	µg/L	33.600	ppb	13:03:40
2	Sn 189.927†	-111.1	-125.4	-7.7781	µg/L	-7.7781	ppb	13:03:40
2	Ti 334.940†	-7987.3	-10256.4	1.9502	µg/L	1.9502	ppb	13:03:19
2	Tl 190.801†	-25.8	-12.4	-21.552	µg/L	-21.552	ppb	13:03:40
2	U 367.007†	3540.3	3551.8	59.119	µg/L	59.119	ppb	13:03:19
2	V 292.402†	-2965.6	-3589.2	2.8812	µg/L	2.8812	ppb	13:03:40
2	Zn 213.857†	2413.0	2114.5	0.2796	µg/L	0.2796	ppb	13:03:40
3	Sc RADIAL	20078.6	20078.6	93.4	%			13:02:40
3	Al 396.153Radial†	315527.1	337764.4	604120	µg/L	604120	ppb	13:02:38
3	Ca 317.933Radial†	654038.4	699866.3	473900	µg/L	473900	ppb	13:02:38
3	Fe 238.204 Radial†	51619.3	55210.9	187290	µg/L	187290	ppb	13:02:40
3	K 766.490 Radial†	549.2	-92.2	-139.02	µg/L	-139.02	ppb	13:02:40
3	Mg 279.077 IEC†	64315.3	68825.2	483180	µg/L	483180	ppb	13:02:40
3	Na 589.592 Radial†	-49.4	-11.0	-12.015	µg/L	-12.015	ppb	13:02:40
3	Sr 421.552†	177.2	151.6	-1.9060	µg/L	-1.9060	ppb	13:02:40
3	Sc 361.383	1104412.0	1104412.0	92.290	%			13:03:42
3	Y 371.029	638339.3	638339.3	90.343	%			13:03:42
3	Ag 328.068†	2702.0	2281.6	1.1845	µg/L	1.1845	ppb	13:03:42
3	As 188.979†	-22.7	-21.9	-17.890	µg/L	-17.890	ppb	13:04:02
3	B 249.677†	48670.3	52481.2	-49.987	µg/L	-49.987	ppb	13:03:42
3	Ba 233.527†	113.2	213.0	0.8520	µg/L	0.8520	ppb	13:04:02
3	Be 313.107†	-6851.6	-634.3	-0.2805	µg/L	-0.2805	ppb	13:03:42
3	Cd 226.502†	1348.4	1550.9	0.5574	µg/L	0.5574	ppb	13:04:02
3	Co 228.616†	-45.0	56.8	0.1353	µg/L	0.1353	ppb	13:04:02
3	Cr 267.716†	189.8	84.4	2.8652	µg/L	2.8652	ppb	13:04:02
3	Cu 324.752†	-1242.5	-5368.7	-8.6094	µg/L	-8.6094	ppb	13:04:02
3	Mn 257.610†	2896.4	2940.3	-4.8252	µg/L	-4.8252	ppb	13:03:42
3	Mo 202.031†	-185.0	-191.0	-2.7554	µg/L	-2.7554	ppb	13:04:02
3	Ni 231.604†	33.6	74.2	1.2967	µg/L	1.2967	ppb	13:04:02
3	P 214.914†	45.0	116.9	-0.5094	µg/L	-0.5094	ppb	13:04:02
3	Pb 220.353†	50.4	-53.9	8.0152	µg/L	8.0152	ppb	13:04:02
3	S 181.975 Axial†	60.5	40.8	-34.547	µg/L	-34.547	ppb	13:04:02
3	Sb 206.836†	8.8	3.0	7.3519	µg/L	7.3519	ppb	13:04:02
3	Se 196.026†	-41.0	-61.3	-21.5	µg/L	-21.5	ppb	13:04:02
3	SiO2†	1576.4	-184.4	-34.769	µg/L	-34.769	ppb	13:04:02
3	Si 251.611†	660.2	360.7	32.679	µg/L	32.679	ppb	13:04:02
3	Sn 189.927†	-107.3	-120.2	-5.3723	µg/L	-5.3723	ppb	13:04:02
3	Ti 334.940†	-7848.3	-10024.7	2.5596	µg/L	2.5596	ppb	13:03:42
3	Tl 190.801†	-13.3	1.4	-2.4589	µg/L	-2.4589	ppb	13:04:02
3	U 367.007†	3645.0	3629.3	83.146	µg/L	83.146	ppb	13:03:42
3	V 292.402†	-2961.8	-3554.9	3.1233	µg/L	3.1233	ppb	13:04:02
3	Zn 213.857†	2405.4	2081.8	-0.1319	µg/L	-0.1319	ppb	13:04:02

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1095719.3	91.563	%	0.6706				0.73%
Sc RADIAL	20063.7	93.4	%	1.09				1.16%
Y 371.029	633165.0	89.611	%	0.6788				0.76%
Ag 328.068†	2200.9	0.7566	µg/L	0.91478	0.7566	ppb	0.91478	120.91%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	334797.4	598810	µg/L	6806.2	598810	ppb	6806.2	1.14%
QC value within limits for Al 396.153Radial Recovery = 119.76%								
As 188.979†	-19.0	-11.378	µg/L	5.6558	-11.378	ppb	5.6558	49.71%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	52381.7	-50.406	µg/L	2.5957	-50.406	ppb	2.5957	5.15%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	218.3	0.9309	µg/L	0.29732	0.9309	ppb	0.29732	31.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-697.1	-0.3082	µg/L	0.02503	-0.3082	ppb	0.02503	8.12%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	692265.2	468760	µg/L	6356.6	468760	ppb	6356.6	1.36%
QC value within limits for Ca 317.933Radial Recovery = 93.75%								
Cd 226.502†	1555.2	0.6538	µg/L	0.11802	0.6538	ppb	0.11802	18.05%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	50.4	-0.0563	µg/L	0.16808	-0.0563	ppb	0.16808	298.48%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               53.9      2.2915 µg/L       0.53146      2.2915 ppb        0.53146  23.19%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -5404.7     -8.8999 µg/L       0.25507     -8.8999 ppb        0.25507   2.87%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†     55149.3      187080 µg/L         415.5      187080 ppb          415.5   0.22%
   QC value within limits for Fe 238.204 Radial  Recovery = 93.54%
K 766.490 Radial†       -163.8     -232.55 µg/L        81.600     -232.55 ppb         81.600  35.09%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†        68720.3      482440 µg/L        2169.4      482440 ppb         2169.4   0.45%
   QC value within limits for Mg 279.077 IEC  Recovery = 96.49%
Mn 257.610†             2875.3     -5.0005 µg/L       0.15210     -5.0005 ppb        0.15210   3.04%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†             -185.4     -2.1109 µg/L       0.59665     -2.1109 ppb        0.59665  28.27%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        18.9      16.747 µg/L       25.9618      16.747 ppb        25.9618 155.02%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               58.1      0.8046 µg/L       0.68025      0.8046 ppb        0.68025  84.55%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               107.8     -10.687 µg/L        9.9429     -10.687 ppb         9.9429  93.03%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -44.5      9.9228 µg/L       1.66849      9.9228 ppb        1.66849  16.81%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          47.3     -10.839 µg/L       22.6506     -10.839 ppb        22.6506 208.98%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                5.6      9.0068 µg/L       1.72986      9.0068 ppb        1.72986  19.21%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -59.1       -18.6 µg/L         11.73       -18.6 ppb          11.73  63.18%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -153.9     -29.024 µg/L        4.9787     -29.024 ppb         4.9787  17.15%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              393.9      33.644 µg/L        0.9873      33.644 ppb         0.9873   2.93%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -122.8     -6.8956 µg/L       1.32479     -6.8956 ppb        1.32479  19.21%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†              208.3     -1.1985 µg/L       0.66580     -1.1985 ppb        0.66580  55.55%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†           -10151.9      2.0493 µg/L       0.46865      2.0493 ppb        0.46865  22.87%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -4.9     -11.137 µg/L        9.6644     -11.137 ppb         9.6644  86.78%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†              3602.7      76.818 µg/L       15.5339      76.818 ppb        15.5339  20.22%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†             -3589.0      2.8453 µg/L       0.29748      2.8453 ppb        0.29748  10.45%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             2097.2      0.1109 µg/L       0.21551      0.1109 ppb        0.21551 194.37%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 19 **Autosampler Location: 104**
Sample ID: ICSAB **Date Collected: 11/7/2013 13:04:10**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20008.5	20008.5	93.1	%			13:04:42
1	Al 396.153Radial†	311553.0	334679.5	598600	µg/L	598600	ppb	13:04:40
1	Ca 317.933Radial†	638927.0	686090.1	464580	µg/L	464580	ppb	13:04:40
1	Fe 238.204 Radial†	50908.4	54641.0	185350	µg/L	185350	ppb	13:04:42
1	K 766.490 Radial†	4436.6	4084.6	5324.9	µg/L	5324.9	ppb	13:04:42
1	Mg 279.077 IEC†	63323.6	68001.3	477400	µg/L	477400	ppb	13:04:42
1	Na 589.592 Radial†	6780.8	7323.9	7050.0	µg/L	7050.0	ppb	13:04:42
1	Sr 421.552†	40801.7	43779.8	512.24	µg/L	512.24	ppb	13:04:42
1	Sc 361.383	1111890.0	1111890.0	92.915	%			13:05:08
1	Y 371.029	643870.3	643870.3	91.126	%			13:05:08
1	Ag 328.068†	38080.5	40338.3	271.99	µg/L	271.99	ppb	13:05:08
1	As 188.979†	174.6	190.6	471.63	µg/L	471.63	ppb	13:05:28
1	B 249.677†	84120.1	90279.6	428.82	µg/L	428.82	ppb	13:05:08
1	Ba 233.527†	30094.9	32480.3	473.01	µg/L	473.01	ppb	13:05:28
1	Be 313.107†	491146.8	535389.9	236.74	µg/L	236.74	ppb	13:05:08
1	Cd 226.502†	26408.8	28512.5	436.70	µg/L	436.70	ppb	13:05:28
1	Co 228.616†	12997.3	14094.0	428.70	µg/L	428.70	ppb	13:05:28
1	Cr 267.716†	22697.2	24306.8	461.97	µg/L	461.97	ppb	13:05:28
1	Cu 324.752†	72396.6	73895.0	549.17	µg/L	549.17	ppb	13:05:08
1	Mn 257.610†	142715.7	153400.8	453.48	µg/L	453.48	ppb	13:05:08
1	Mo 202.031†	3586.6	3869.5	485.71	µg/L	485.71	ppb	13:05:28
1	Ni 231.604†	12737.1	13746.1	422.28	µg/L	422.28	ppb	13:05:28
1	P 214.914†	2212.0	2448.9	2377.4	µg/L	2377.4	ppb	13:05:28
1	Pb 220.353†	1954.8	1995.4	474.26	µg/L	474.26	ppb	13:05:28
1	S 181.975 Axial†	726.3	757.0	2430.2	µg/L	2430.2	ppb	13:05:28
1	Sb 206.836†	721.6	770.1	496.07	µg/L	496.07	ppb	13:05:28
1	Se 196.026†	1431.6	1523.9	2220	µg/L	2220	ppb	13:05:28
1	SiO2†	52658.4	54781.6	10349	µg/L	10349	ppb	13:05:08
1	Si 251.611†	150931.3	162086.3	4888.3	µg/L	4888.3	ppb	13:05:08
1	Sn 189.927†	972.3	1042.6	464.03	µg/L	464.03	ppb	13:05:28
1	Ti 334.940†	233031.8	249281.4	502.81	µg/L	502.81	ppb	13:05:08
1	Tl 190.801†	281.1	318.3	432.44	µg/L	432.44	ppb	13:05:28
1	U 367.007†	5137.3	5208.9	586.70	µg/L	586.70	ppb	13:05:08
1	V 292.402†	60407.5	64668.3	506.39	µg/L	506.39	ppb	13:05:08
1	Zn 213.857†	34350.2	36444.9	453.49	µg/L	453.49	ppb	13:05:28
2	Sc RADIAL	19899.5	19899.5	92.6	%			13:04:46
2	Al 396.153Radial†	317740.8	343193.7	613820	µg/L	613820	ppb	13:04:44
2	Ca 317.933Radial†	653919.4	706037.1	478080	µg/L	478080	ppb	13:04:44
2	Fe 238.204 Radial†	50997.1	55036.3	186690	µg/L	186690	ppb	13:04:46
2	K 766.490 Radial†	4575.1	4260.2	5554.1	µg/L	5554.1	ppb	13:04:46
2	Mg 279.077 IEC†	63662.0	68739.3	482580	µg/L	482580	ppb	13:04:46
2	Na 589.592 Radial†	6803.4	7388.2	7111.9	µg/L	7111.9	ppb	13:04:46
2	Sr 421.552†	40943.2	44172.6	516.77	µg/L	516.77	ppb	13:04:46
2	Sc 361.383	1111497.5	1111497.5	92.882	%			13:05:30
2	Y 371.029	643119.2	643119.2	91.020	%			13:05:30
2	Ag 328.068†	38006.7	40273.2	271.19	µg/L	271.19	ppb	13:05:30
2	As 188.979†	165.4	180.8	449.57	µg/L	449.57	ppb	13:05:50
2	B 249.677†	84568.5	90794.3	430.11	µg/L	430.11	ppb	13:05:30
2	Ba 233.527†	30063.4	32457.8	472.67	µg/L	472.67	ppb	13:05:50
2	Be 313.107†	490736.5	535134.8	236.62	µg/L	236.62	ppb	13:05:30
2	Cd 226.502†	26419.2	28533.8	436.87	µg/L	436.87	ppb	13:05:50
2	Co 228.616†	13016.6	14119.7	429.47	µg/L	429.47	ppb	13:05:50
2	Cr 267.716†	22660.0	24275.3	461.39	µg/L	461.39	ppb	13:05:50
2	Cu 324.752†	72462.3	73993.2	550.06	µg/L	550.06	ppb	13:05:30
2	Mn 257.610†	142944.2	153701.0	454.24	µg/L	454.24	ppb	13:05:30
2	Mo 202.031†	3600.2	3885.6	487.86	µg/L	487.86	ppb	13:05:50
2	Ni 231.604†	12726.7	13739.8	422.08	µg/L	422.08	ppb	13:05:50
2	P 214.914†	2231.2	2470.4	2400.9	µg/L	2400.9	ppb	13:05:50
2	Pb 220.353†	1941.5	1981.8	471.81	µg/L	471.81	ppb	13:05:50

2	S 181.975 Axial†	727.9	759.0	2433.3	µg/L	2433.3 ppb	13:05:50
2	Sb 206.836†	723.8	772.7	497.81	µg/L	497.81 ppb	13:05:50
2	Se 196.026†	1410.0	1501.2	2190	µg/L	2190 ppb	13:05:50
2	SiO2†	52656.6	54799.6	10352	µg/L	10352 ppb	13:05:30
2	Si 251.611†	150583.3	161768.9	4878.8	µg/L	4878.8 ppb	13:05:30
2	Sn 189.927†	986.7	1058.4	471.66	µg/L	471.66 ppb	13:05:50
2	Ti 334.940†	233023.1	249360.7	503.67	µg/L	503.67 ppb	13:05:30
2	Tl 190.801†	291.4	329.5	447.84	µg/L	447.84 ppb	13:05:50
2	U 367.007†	5041.4	5107.6	545.66	µg/L	545.66 ppb	13:05:30
2	V 292.402†	60318.1	64595.1	506.07	µg/L	506.07 ppb	13:05:30
2	Zn 213.857†	34366.1	36475.2	453.66	µg/L	453.66 ppb	13:05:50
3	Sc RADIAL	20101.5	20101.5	93.5	%		13:04:50
3	Al 396.153Radial†	316001.7	337887.4	604330	µg/L	604330 ppb	13:04:48
3	Ca 317.933Radial†	652004.1	696895.1	471890	µg/L	471890 ppb	13:04:48
3	Fe 238.204 Radial†	51458.5	54976.2	186480	µg/L	186480 ppb	13:04:50
3	K 766.490 Radial†	4541.2	4174.3	5442.0	µg/L	5442.0 ppb	13:04:50
3	Mg 279.077 IEC†	64090.5	68506.5	480940	µg/L	480940 ppb	13:04:50
3	Na 589.592 Radial†	6866.7	7382.1	7106.0	µg/L	7106.0 ppb	13:04:50
3	Sr 421.552†	41245.9	44051.9	515.39	µg/L	515.39 ppb	13:04:50
3	Sc 361.383	1103977.5	1103977.5	92.253	%		13:05:52
3	Y 371.029	638464.3	638464.3	90.361	%		13:05:52
3	Ag 328.068†	37915.8	40453.5	272.60	µg/L	272.60 ppb	13:05:52
3	As 188.979†	182.6	200.6	494.61	µg/L	494.61 ppb	13:06:13
3	B 249.677†	84264.7	91085.2	434.58	µg/L	434.58 ppb	13:05:52
3	Ba 233.527†	30234.2	32863.3	478.60	µg/L	478.60 ppb	13:06:13
3	Be 313.107†	490147.2	538095.1	237.93	µg/L	237.93 ppb	13:05:52
3	Cd 226.502†	26534.8	28852.8	442.05	µg/L	442.05 ppb	13:06:13
3	Co 228.616†	13080.4	14284.4	434.51	µg/L	434.51 ppb	13:06:13
3	Cr 267.716†	22749.8	24538.9	466.37	µg/L	466.37 ppb	13:06:13
3	Cu 324.752†	72374.3	74429.3	553.12	µg/L	553.12 ppb	13:05:52
3	Mn 257.610†	142724.8	154511.5	456.76	µg/L	456.76 ppb	13:05:52
3	Mo 202.031†	3577.3	3887.1	487.98	µg/L	487.98 ppb	13:06:13
3	Ni 231.604†	12765.1	13874.7	426.23	µg/L	426.23 ppb	13:06:13
3	P 214.914†	2228.1	2483.4	2412.4	µg/L	2412.4 ppb	13:06:13
3	Pb 220.353†	1975.0	2032.4	482.88	µg/L	482.88 ppb	13:06:13
3	S 181.975 Axial†	735.0	772.0	2480.0	µg/L	2480.0 ppb	13:06:13
3	Sb 206.836†	727.0	781.5	503.35	µg/L	503.35 ppb	13:06:13
3	Se 196.026†	1418.7	1521.0	2220	µg/L	2220 ppb	13:06:13
3	SiO2†	52513.4	55030.6	10396	µg/L	10396 ppb	13:05:52
3	Si 251.611†	150496.8	162779.5	4909.2	µg/L	4909.2 ppb	13:05:52
3	Sn 189.927†	994.6	1074.2	477.51	µg/L	477.51 ppb	13:06:13
3	Ti 334.940†	232051.8	250016.7	504.59	µg/L	504.59 ppb	13:05:52
3	Tl 190.801†	296.8	337.5	458.92	µg/L	458.92 ppb	13:06:13
3	U 367.007†	5131.5	5242.2	589.91	µg/L	589.91 ppb	13:05:52
3	V 292.402†	60316.8	65036.0	509.28	µg/L	509.28 ppb	13:05:52
3	Zn 213.857†	34475.9	36846.2	458.60	µg/L	458.60 ppb	13:06:13

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1109121.7	92.683	%	0.3726				0.40%
Sc RADIAL	20003.2	93.1	%	0.47				0.51%
Y 371.029	641817.9	90.835	%	0.4145				0.46%
Ag 328.068†	40355.0	271.93	µg/L	0.707	271.93	ppb	0.707	0.26%
QC value within limits for Ag 328.068 Recovery = 108.77%								
Al 396.153Radial†	338586.9	605590	µg/L	7691.1	605590	ppb	7691.1	1.27%
QC value greater than the upper limit for Al 396.153Radial Recovery = 121.12%								
As 188.979†	190.7	471.94	µg/L	22.520	471.94	ppb	22.520	4.77%
QC value within limits for As 188.979 Recovery = 94.39%								
B 249.677†	90719.7	431.17	µg/L	3.020	431.17	ppb	3.020	0.70%
QC value within limits for B 249.677 Recovery = 86.23%								
Ba 233.527†	32600.5	474.76	µg/L	3.327	474.76	ppb	3.327	0.70%
QC value within limits for Ba 233.527 Recovery = 94.95%								
Be 313.107†	536206.6	237.10	µg/L	0.725	237.10	ppb	0.725	0.31%
QC value within limits for Be 313.107 Recovery = 94.84%								
Ca 317.933Radial†	696340.8	471520	µg/L	6762.3	471520	ppb	6762.3	1.43%
QC value within limits for Ca 317.933Radial Recovery = 94.30%								
Cd 226.502†	28633.0	438.54	µg/L	3.043	438.54	ppb	3.043	0.69%
QC value within limits for Cd 226.502 Recovery = 87.71%								
Co 228.616†	14166.0	430.89	µg/L	3.154	430.89	ppb	3.154	0.73%

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   QC value within limits for Co 228.616  Recovery = 86.18%
Cr 267.716†            24373.7      463.25 µg/L         2.724      463.25 ppb          2.724   0.59%
   QC value within limits for Cr 267.716  Recovery = 92.65%
Cu 324.752†            74105.8      550.79 µg/L         2.069      550.79 ppb          2.069   0.38%
   QC value within limits for Cu 324.752  Recovery = 110.16%
Fe 238.204 Radial†     54884.5      186170 µg/L         722.5      186170 ppb          722.5   0.39%
   QC value within limits for Fe 238.204 Radial  Recovery = 93.09%
K 766.490 Radial†       4173.1      5440.3 µg/L        114.64      5440.3 ppb         114.64   2.11%
   QC value within limits for K 766.490 Radial  Recovery = 108.81%
Mg 279.077 IEC†        68415.7      480310 µg/L        2648.6      480310 ppb         2648.6   0.55%
   QC value within limits for Mg 279.077 IEC  Recovery = 96.06%
Mn 257.610†           153871.1      454.83 µg/L         1.716      454.83 ppb          1.716   0.38%
   QC value within limits for Mn 257.610  Recovery = 90.97%
Mo 202.031†             3880.7      487.18 µg/L         1.273      487.18 ppb          1.273   0.26%
   QC value within limits for Mo 202.031  Recovery = 97.44%
Na 589.592 Radial†      7364.7      7089.3 µg/L         34.19      7089.3 ppb          34.19   0.48%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 141.79%
Ni 231.604†            13786.9      423.53 µg/L         2.344      423.53 ppb          2.344   0.55%
   QC value within limits for Ni 231.604  Recovery = 84.71%
P 214.914†              2467.5      2396.9 µg/L         17.82      2396.9 ppb          17.82   0.74%
   QC value within limits for P 214.914  Recovery = 95.87%
Pb 220.353†             2003.2      476.32 µg/L         5.813      476.32 ppb          5.813   1.22%
   QC value within limits for Pb 220.353  Recovery = 95.26%
S 181.975 Axial†         762.7      2447.9 µg/L         27.87      2447.9 ppb          27.87   1.14%
   QC value within limits for S 181.975 Axial  Recovery = 97.91%
Sb 206.836†              774.8      499.07 µg/L         3.803      499.07 ppb          3.803   0.76%
   QC value within limits for Sb 206.836  Recovery = 99.81%
Se 196.026†             1515.4        2210 µg/L          17.3        2210 ppb           17.3   0.78%
   QC value within limits for Se 196.026  Recovery = 88.41%
SiO2†                  54870.6       10365 µg/L          26.3       10365 ppb           26.3   0.25%
   QC value within limits for SiO2  Recovery = 96.92%
Si 251.611†           162211.5      4892.1 µg/L         15.54      4892.1 ppb          15.54   0.32%
   QC value within limits for Si 251.611  Recovery = 97.84%
Sn 189.927†             1058.4      471.07 µg/L         6.759      471.07 ppb          6.759   1.43%
   QC value within limits for Sn 189.927  Recovery = 94.21%
Sr 421.552†            44001.4      514.80 µg/L         2.319      514.80 ppb          2.319   0.45%
   QC value within limits for Sr 421.552  Recovery = 102.96%
Ti 334.940†           249552.9      503.69 µg/L         0.892      503.69 ppb          0.892   0.18%
   QC value within limits for Ti 334.940  Recovery = 100.74%
Tl 190.801†              328.5      446.40 µg/L        13.298      446.40 ppb         13.298   2.98%
   QC value within limits for Tl 190.801  Recovery = 89.28%
U 367.007†              5186.2      574.09 µg/L        24.671      574.09 ppb         24.671   4.30%
   QC value within limits for U 367.007  Recovery = 114.82%
V 292.402†             64766.5      507.25 µg/L         1.770      507.25 ppb          1.770   0.35%
   QC value within limits for V 292.402  Recovery = 101.45%
Zn 213.857†            36588.8      455.25 µg/L         2.907      455.25 ppb          2.907   0.64%
   QC value within limits for Zn 213.857  Recovery = 91.05%
QC Failed.  Continue with analysis.
```

Sequence No.: 20 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 13:06:21**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21177.0	21177.0	98.6	%			13:06:53
1	Al 396.153Radial†	3419.4	3565.8	6372.8	µg/L	6372.8	ppb	13:07:13
1	Ca 317.933Radial†	7522.1	7565.4	5122.8	µg/L	5122.8	ppb	13:07:13
1	Fe 238.204 Radial†	1514.5	1506.2	5094.2	µg/L	5094.2	ppb	13:07:13
1	K 766.490 Radial†	4640.2	4028.2	5266.6	µg/L	5266.6	ppb	13:06:53
1	Mg 279.077 IEC†	744.4	752.1	5280.7	µg/L	5280.7	ppb	13:07:13
1	Na 589.592 Radial†	14103.8	14352.4	13818	µg/L	13818	ppb	13:06:53
1	Sr 421.552†	41768.2	42342.7	498.89	µg/L	498.89	ppb	13:06:53
1	Sc 361.383	1198004.2	1198004.2	100.11	%			13:08:14
1	Y 371.029	696024.0	696024.0	98.507	%			13:08:14
1	Ag 328.068†	72626.8	71900.3	509.75	µg/L	509.75	ppb	13:08:16
1	As 188.979†	206.6	209.1	483.09	µg/L	483.09	ppb	13:08:36
1	B 249.677†	39248.4	38949.8	466.96	µg/L	466.96	ppb	13:08:16
1	Ba 233.527†	33778.8	33831.8	494.90	µg/L	494.90	ppb	13:08:16
1	Be 313.107†	1101834.3	1107405.7	489.67	µg/L	489.67	ppb	13:08:14
1	Cd 226.502†	30104.9	30161.5	486.97	µg/L	486.97	ppb	13:08:16
1	Co 228.616†	15915.8	16003.8	488.62	µg/L	488.62	ppb	13:08:36
1	Cr 267.716†	26063.2	25913.2	491.34	µg/L	491.34	ppb	13:08:16
1	Cu 324.752†	75247.3	71141.7	501.70	µg/L	501.70	ppb	13:08:16
1	Mn 257.610†	163664.1	163285.1	497.11	µg/L	497.11	ppb	13:08:16
1	Mo 202.031†	4130.1	4135.0	497.95	µg/L	497.95	ppb	13:08:36
1	Ni 231.604†	16041.4	16061.4	494.52	µg/L	494.52	ppb	13:08:16
1	P 214.914†	2324.6	2390.2	2431.2	µg/L	2431.2	ppb	13:08:36
1	Pb 220.353†	2258.6	2147.7	488.99	µg/L	488.99	ppb	13:08:36
1	S 181.975 Axial†	304.7	279.6	957.70	µg/L	957.70	ppb	13:08:36
1	Sb 206.836†	785.6	778.3	495.74	µg/L	495.74	ppb	13:08:36
1	Se 196.026†	359.4	342.1	486	µg/L	486	ppb	13:08:36
1	SiO2†	28984.2	27059.7	5116.9	µg/L	5116.9	ppb	13:08:16
1	Si 251.611†	80139.4	79696.2	2390.0	µg/L	2390.0	ppb	13:08:16
1	Sn 189.927†	1228.7	1223.4	495.26	µg/L	495.26	ppb	13:08:36
1	Ti 334.940†	257504.1	255698.7	493.98	µg/L	493.98	ppb	13:08:16
1	Tl 190.801†	332.5	347.9	476.97	µg/L	476.97	ppb	13:08:36
1	U 367.007†	1816.2	1494.0	437.92	µg/L	437.92	ppb	13:08:16
1	V 292.402†	68540.5	68119.0	503.75	µg/L	503.75	ppb	13:08:16
1	Zn 213.857†	37663.2	37096.9	488.58	µg/L	488.58	ppb	13:08:16
2	Sc RADIAL	21078.0	21078.0	98.1	%			13:07:15
2	Al 396.153Radial†	3268.3	3428.0	6126.6	µg/L	6126.6	ppb	13:07:35
2	Ca 317.933Radial†	7256.5	7330.5	4963.7	µg/L	4963.7	ppb	13:07:35
2	Fe 238.204 Radial†	1499.0	1497.6	5065.6	µg/L	5065.6	ppb	13:07:35
2	K 766.490 Radial†	4675.9	4086.8	5342.9	µg/L	5342.9	ppb	13:07:15
2	Mg 279.077 IEC†	723.3	734.2	5154.7	µg/L	5154.7	ppb	13:07:35
2	Na 589.592 Radial†	14245.6	14564.2	14022	µg/L	14022	ppb	13:07:15
2	Sr 421.552†	42757.5	43550.4	513.12	µg/L	513.12	ppb	13:07:15
2	Sc 361.383	1146534.1	1146534.1	95.810	%			13:08:39
2	Y 371.029	665818.4	665818.4	94.232	%			13:08:39
2	Ag 328.068†	69889.0	72299.5	512.53	µg/L	512.53	ppb	13:08:41
2	As 188.979†	182.3	192.9	446.38	µg/L	446.38	ppb	13:09:01
2	B 249.677†	37682.1	39075.0	468.54	µg/L	468.54	ppb	13:08:41
2	Ba 233.527†	32300.1	33803.2	494.48	µg/L	494.48	ppb	13:08:41
2	Be 313.107†	1064457.3	1117802.7	494.26	µg/L	494.26	ppb	13:08:39
2	Cd 226.502†	28529.5	29867.2	482.21	µg/L	482.21	ppb	13:08:41
2	Co 228.616†	14728.6	15478.4	472.55	µg/L	472.55	ppb	13:09:01
2	Cr 267.716†	25121.1	26098.5	494.83	µg/L	494.83	ppb	13:08:41
2	Cu 324.752†	72284.8	71423.9	503.70	µg/L	503.70	ppb	13:08:41
2	Mn 257.610†	156683.0	163337.7	497.27	µg/L	497.27	ppb	13:08:41
2	Mo 202.031†	3829.8	4006.7	482.50	µg/L	482.50	ppb	13:09:01
2	Ni 231.604†	15324.9	16032.9	493.64	µg/L	493.64	ppb	13:08:41
2	P 214.914†	2145.3	2307.2	2346.4	µg/L	2346.4	ppb	13:09:01
2	Pb 220.353†	2102.9	2086.4	474.99	µg/L	474.99	ppb	13:09:01

2	S 181.975 Axial†	283.1	270.8	927.44 µg/L	927.44 ppb	13:09:01
2	Sb 206.836†	727.3	752.5	479.21 µg/L	479.21 ppb	13:09:01
2	Se 196.026†	334.0	331.8	471 µg/L	471 ppb	13:09:01
2	SiO2†	27865.0	27191.2	5141.8 µg/L	5141.8 ppb	13:08:41
2	Si 251.611†	76809.9	79814.7	2393.8 µg/L	2393.8 ppb	13:08:41
2	Sn 189.927†	1140.2	1186.2	480.19 µg/L	480.19 ppb	13:09:01
2	Ti 334.940†	247638.3	256948.4	496.37 µg/L	496.37 ppb	13:08:41
2	Tl 190.801†	303.8	332.9	456.33 µg/L	456.33 ppb	13:09:01
2	U 367.007†	1858.7	1619.8	477.49 µg/L	477.49 ppb	13:08:41
2	V 292.402†	65432.0	67948.2	502.34 µg/L	502.34 ppb	13:08:41
2	Zn 213.857†	35937.7	36984.8	487.10 µg/L	487.10 ppb	13:08:41
3	Sc RADIAL	21045.1	21045.1	97.9 %		13:07:37
3	Al 396.153Radial†	3271.1	3436.1	6140.9 µg/L	6140.9 ppb	13:07:57
3	Ca 317.933Radial†	7284.1	7370.3	4990.7 µg/L	4990.7 ppb	13:07:57
3	Fe 238.204 Radial†	1499.5	1500.5	5075.3 µg/L	5075.3 ppb	13:07:57
3	K 766.490 Radial†	4636.6	4054.1	5300.1 µg/L	5300.1 ppb	13:07:37
3	Mg 279.077 IEC†	721.4	733.3	5148.7 µg/L	5148.7 ppb	13:07:57
3	Na 589.592 Radial†	14309.2	14651.9	14107 µg/L	14107 ppb	13:07:37
3	Sr 421.552†	43146.9	44016.1	518.61 µg/L	518.61 ppb	13:07:37
3	Sc 361.383	1133187.4	1133187.4	94.694 %		13:09:03
3	Y 371.029	658250.2	658250.2	93.161 %		13:09:03
3	Ag 328.068†	69509.5	72758.0	515.79 µg/L	515.79 ppb	13:09:05
3	As 188.979†	183.5	196.5	454.42 µg/L	454.42 ppb	13:09:25
3	B 249.677†	37195.3	39024.1	467.90 µg/L	467.90 ppb	13:09:05
3	Ba 233.527†	31918.5	33797.2	494.40 µg/L	494.40 ppb	13:09:05
3	Be 313.107†	1033330.1	1098017.0	485.51 µg/L	485.51 ppb	13:09:03
3	Cd 226.502†	28324.1	30000.9	484.37 µg/L	484.37 ppb	13:09:05
3	Co 228.616†	14638.6	15564.3	475.17 µg/L	475.17 ppb	13:09:25
3	Cr 267.716†	24806.2	26074.9	494.39 µg/L	494.39 ppb	13:09:05
3	Cu 324.752†	71794.5	71794.7	506.30 µg/L	506.30 ppb	13:09:05
3	Mn 257.610†	155493.0	164007.2	499.31 µg/L	499.31 ppb	13:09:05
3	Mo 202.031†	3817.0	4040.3	486.55 µg/L	486.55 ppb	13:09:25
3	Ni 231.604†	15178.1	16066.2	494.67 µg/L	494.67 ppb	13:09:05
3	P 214.914†	2122.8	2309.9	2349.0 µg/L	2349.0 ppb	13:09:25
3	Pb 220.353†	2082.8	2091.1	476.08 µg/L	476.08 ppb	13:09:25
3	S 181.975 Axial†	286.4	277.7	951.13 µg/L	951.13 ppb	13:09:25
3	Sb 206.836†	723.9	757.9	482.69 µg/L	482.69 ppb	13:09:25
3	Se 196.026†	328.5	330.0	469 µg/L	469 ppb	13:09:25
3	SiO2†	27702.6	27362.3	5174.1 µg/L	5174.1 ppb	13:09:05
3	Si 251.611†	76424.8	80352.2	2409.9 µg/L	2409.9 ppb	13:09:05
3	Sn 189.927†	1121.1	1180.0	477.70 µg/L	477.70 ppb	13:09:25
3	Ti 334.940†	245915.5	258173.3	498.75 µg/L	498.75 ppb	13:09:05
3	Tl 190.801†	312.4	345.8	474.13 µg/L	474.13 ppb	13:09:25
3	U 367.007†	1798.3	1578.9	464.63 µg/L	464.63 ppb	13:09:05
3	V 292.402†	64895.6	68186.1	504.12 µg/L	504.12 ppb	13:09:05
3	Zn 213.857†	35794.0	37274.8	490.94 µg/L	490.94 ppb	13:09:05

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1159241.9	96.872	%	2.8601				2.95%
Sc RADIAL	21100.0	98.2	%	0.32				0.33%
Y 371.029	673364.2	95.300	%	2.8285				2.97%
Ag 328.068†	72319.3	512.69	µg/L	3.023	512.69	ppb	3.023	0.59%
QC value within limits for Ag 328.068 Recovery = 102.54%								
Al 396.153Radial†	3476.6	6213.4	µg/L	138.20	6213.4	ppb	138.20	2.22%
QC value greater than the upper limit for Al 396.153Radial Recovery = 124.27%								
As 188.979†	199.5	461.30	µg/L	19.295	461.30	ppb	19.295	4.18%
QC value within limits for As 188.979 Recovery = 92.26%								
B 249.677†	39016.3	467.80	µg/L	0.796	467.80	ppb	0.796	0.17%
QC value within limits for B 249.677 Recovery = 93.56%								
Ba 233.527†	33810.8	494.60	µg/L	0.270	494.60	ppb	0.270	0.05%
QC value within limits for Ba 233.527 Recovery = 98.92%								
Be 313.107†	1107741.8	489.82	µg/L	4.376	489.82	ppb	4.376	0.89%
QC value within limits for Be 313.107 Recovery = 97.96%								
Ca 317.933Radial†	7422.1	5025.7	µg/L	85.16	5025.7	ppb	85.16	1.69%
QC value within limits for Ca 317.933Radial Recovery = 100.51%								
Cd 226.502†	30009.8	484.52	µg/L	2.379	484.52	ppb	2.379	0.49%
QC value within limits for Cd 226.502 Recovery = 96.90%								
Co 228.616†	15682.2	478.78	µg/L	8.622	478.78	ppb	8.622	1.80%

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   QC value within limits for Co 228.616  Recovery = 95.76%
Cr 267.716†            26028.9      493.52 µg/L         1.901      493.52 ppb          1.901   0.39%
   QC value within limits for Cr 267.716  Recovery = 98.70%
Cu 324.752†            71453.4      503.90 µg/L         2.307      503.90 ppb          2.307   0.46%
   QC value within limits for Cu 324.752  Recovery = 100.78%
Fe 238.204 Radial†      1501.4      5078.3 µg/L         14.53      5078.3 ppb          14.53   0.29%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.57%
K 766.490 Radial†       4056.4      5303.2 µg/L         38.25      5303.2 ppb          38.25   0.72%
   QC value within limits for K 766.490 Radial  Recovery = 106.06%
Mg 279.077 IEC†          739.9      5194.7 µg/L         74.56      5194.7 ppb          74.56   1.44%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.89%
Mn 257.610†           163543.3      497.90 µg/L         1.227      497.90 ppb          1.227   0.25%
   QC value within limits for Mn 257.610  Recovery = 99.58%
Mo 202.031†             4060.7      489.00 µg/L         8.008      489.00 ppb          8.008   1.64%
   QC value within limits for Mo 202.031  Recovery = 97.80%
Na 589.592 Radial†     14522.9       13983 µg/L         148.2       13983 ppb          148.2   1.06%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 139.83%
Ni 231.604†            16053.5      494.28 µg/L         0.554      494.28 ppb          0.554   0.11%
   QC value within limits for Ni 231.604  Recovery = 98.86%
P 214.914†              2335.8      2375.5 µg/L         48.22      2375.5 ppb          48.22   2.03%
   QC value within limits for P 214.914  Recovery = 95.02%
Pb 220.353†             2108.4      480.02 µg/L         7.786      480.02 ppb          7.786   1.62%
   QC value within limits for Pb 220.353  Recovery = 96.00%
S 181.975 Axial†         276.0      945.43 µg/L        15.918      945.43 ppb         15.918   1.68%
   QC value within limits for S 181.975 Axial  Recovery = 94.54%
Sb 206.836†              762.9      485.88 µg/L         8.716      485.88 ppb          8.716   1.79%
   QC value within limits for Sb 206.836  Recovery = 97.18%
Se 196.026†              334.6         475 µg/L           9.2         475 ppb            9.2   1.94%
   QC value within limits for Se 196.026  Recovery = 95.05%
SiO2†                  27204.4      5144.3 µg/L         28.67      5144.3 ppb          28.67   0.56%
   QC value within limits for SiO2  Recovery = 96.20%
Si 251.611†            79954.3      2397.9 µg/L         10.56      2397.9 ppb          10.56   0.44%
   QC value within limits for Si 251.611  Recovery = 95.92%
Sn 189.927†             1196.5      484.38 µg/L         9.500      484.38 ppb          9.500   1.96%
   QC value within limits for Sn 189.927  Recovery = 96.88%
Sr 421.552†            43303.1      510.21 µg/L        10.178      510.21 ppb         10.178   1.99%
   QC value within limits for Sr 421.552  Recovery = 102.04%
Ti 334.940†           256940.1      496.37 µg/L         2.381      496.37 ppb          2.381   0.48%
   QC value within limits for Ti 334.940  Recovery = 99.27%
Tl 190.801†              342.2      469.14 µg/L        11.189      469.14 ppb         11.189   2.39%
   QC value within limits for Tl 190.801  Recovery = 93.83%
U 367.007†              1564.3      460.01 µg/L        20.188      460.01 ppb         20.188   4.39%
   QC value within limits for U 367.007  Recovery = 92.00%
V 292.402†             68084.4      503.40 µg/L         0.936      503.40 ppb          0.936   0.19%
   QC value within limits for V 292.402  Recovery = 100.68%
Zn 213.857†            37118.9      488.87 µg/L         1.938      488.87 ppb          1.938   0.40%
   QC value within limits for Zn 213.857  Recovery = 97.77%
QC Failed.  Continue with analysis.
```

Sequence No.: 21 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 13:09:34**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20303.0	20303.0	94.5	%			13:10:21
1	Al 396.153Radial†	-14.7	80.7	144.23	µg/L	144.23	ppb	13:10:21
1	Ca 317.933Radial†	67.0	3.9	2.6465	µg/L	2.6465	ppb	13:10:41
1	Fe 238.204 Radial†	29.5	0.7	2.2380	µg/L	2.2380	ppb	13:10:41
1	K 766.490 Radial†	571.6	-75.1	-98.083	µg/L	-98.083	ppb	13:10:21
1	Mg 279.077 IEC†	-4.4	-7.8	-55.029	µg/L	-55.029	ppb	13:10:41
1	Na 589.592 Radial†	-25.2	15.2	14.665	µg/L	14.665	ppb	13:10:21
1	Sr 421.552†	69.5	35.6	0.4194	µg/L	0.4194	ppb	13:10:21
1	Sc 361.383	1193733.3	1193733.3	99.754	%			13:12:20
1	Y 371.029	706942.2	706942.2	100.05	%			13:12:20
1	Ag 328.068†	511.4	-133.5	-0.9397	µg/L	-0.9397	ppb	13:12:22
1	As 188.979†	-2.7	-0.0	-0.0112	µg/L	-0.0112	ppb	13:12:42
1	B 249.677†	264.8	10.3	0.1598	µg/L	0.1598	ppb	13:12:42
1	Ba 233.527†	-106.7	-16.6	-0.2432	µg/L	-0.2432	ppb	13:12:42
1	Be 313.107†	-6217.4	557.0	0.2463	µg/L	0.2463	ppb	13:12:22
1	Cd 226.502†	-82.6	7.0	0.1128	µg/L	0.1128	ppb	13:12:42
1	Co 228.616†	-103.0	2.4	0.0734	µg/L	0.0734	ppb	13:12:42
1	Cr 267.716†	124.8	3.9	0.0782	µg/L	0.0782	ppb	13:12:42
1	Cu 324.752†	3665.3	-348.0	-2.4516	µg/L	-2.4516	ppb	13:12:22
1	Mn 257.610†	201.6	4.1	0.0145	µg/L	0.0145	ppb	13:12:42
1	Mo 202.031†	-5.2	4.3	0.5110	µg/L	0.5110	ppb	13:12:42
1	Ni 231.604†	-47.6	-10.0	-0.3083	µg/L	-0.3083	ppb	13:12:42
1	P 214.914†	-68.4	-0.5	-0.4411	µg/L	-0.4411	ppb	13:12:42
1	Pb 220.353†	110.6	2.4	0.5634	µg/L	0.5634	ppb	13:12:42
1	S 181.975 Axial†	30.0	5.3	18.208	µg/L	18.208	ppb	13:12:42
1	Sb 206.836†	7.6	1.1	0.7258	µg/L	0.7258	ppb	13:12:42
1	Se 196.026†	15.1	-1.7	-2.42	µg/L	-2.42	ppb	13:12:42
1	SiO2†	1773.7	-114.4	-21.588	µg/L	-21.588	ppb	13:12:42
1	Si 251.611†	340.6	-13.2	-0.4045	µg/L	-0.4045	ppb	13:12:42
1	Sn 189.927†	2.6	-1.3	-0.5140	µg/L	-0.5140	ppb	13:12:42
1	Ti 334.940†	1255.9	-261.7	-0.5025	µg/L	-0.5025	ppb	13:12:22
1	Tl 190.801†	-15.4	0.4	0.4863	µg/L	0.4863	ppb	13:12:42
1	U 367.007†	301.1	-18.4	-5.7545	µg/L	-5.7545	ppb	13:12:22
1	V 292.402†	294.6	-50.3	-0.3627	µg/L	-0.3627	ppb	13:12:22
1	Zn 213.857†	526.1	2.8	0.0416	µg/L	0.0416	ppb	13:12:42
2	Sc RADIAL	20817.0	20817.0	96.9	%			13:11:01
2	Al 396.153Radial†	-86.8	6.6	11.759	µg/L	11.759	ppb	13:11:01
2	Ca 317.933Radial†	58.8	-6.3	-4.2425	µg/L	-4.2425	ppb	13:11:21
2	Fe 238.204 Radial†	26.6	-3.1	-10.503	µg/L	-10.503	ppb	13:11:21
2	K 766.490 Radial†	588.4	-72.7	-94.906	µg/L	-94.906	ppb	13:11:01
2	Mg 279.077 IEC†	4.2	1.1	7.6510	µg/L	7.6510	ppb	13:11:21
2	Na 589.592 Radial†	-29.5	11.4	10.953	µg/L	10.953	ppb	13:11:01
2	Sr 421.552†	50.7	14.3	0.1686	µg/L	0.1686	ppb	13:11:01
2	Sc 361.383	1183549.4	1183549.4	98.903	%			13:12:44
2	Y 371.029	701008.5	701008.5	99.213	%			13:12:44
2	Ag 328.068†	711.3	73.0	0.5291	µg/L	0.5291	ppb	13:12:46
2	As 188.979†	-7.0	-4.3	-9.8601	µg/L	-9.8601	ppb	13:13:06
2	B 249.677†	309.5	57.7	0.7998	µg/L	0.7998	ppb	13:13:06
2	Ba 233.527†	-91.4	-2.1	-0.0303	µg/L	-0.0303	ppb	13:13:06
2	Be 313.107†	-6330.7	388.8	0.1719	µg/L	0.1719	ppb	13:12:46
2	Cd 226.502†	-91.1	-2.2	-0.0344	µg/L	-0.0344	ppb	13:13:06
2	Co 228.616†	-91.6	13.0	0.3977	µg/L	0.3977	ppb	13:13:06
2	Cr 267.716†	138.1	18.4	0.3584	µg/L	0.3584	ppb	13:13:06
2	Cu 324.752†	3770.9	-209.6	-1.4829	µg/L	-1.4829	ppb	13:12:46
2	Mn 257.610†	203.6	7.8	0.0234	µg/L	0.0234	ppb	13:13:06
2	Mo 202.031†	-6.8	2.5	0.3063	µg/L	0.3063	ppb	13:13:06
2	Ni 231.604†	-37.3	0.0	0.0014	µg/L	0.0014	ppb	13:13:06
2	P 214.914†	-52.1	15.5	15.852	µg/L	15.852	ppb	13:13:06
2	Pb 220.353†	107.6	0.3	0.0864	µg/L	0.0864	ppb	13:13:06

2	S 181.975 Axial†	25.5	1.0	3.5764	µg/L	3.5764	ppb	13:13:06
2	Sb 206.836†	4.0	-2.5	-1.5799	µg/L	-1.5799	ppb	13:13:06
2	Se 196.026†	11.2	-5.5	-7.83	µg/L	-7.83	ppb	13:13:06
2	SiO2†	1726.3	-147.0	-27.736	µg/L	-27.736	ppb	13:13:06
2	Si 251.611†	339.3	-11.6	-0.3531	µg/L	-0.3531	ppb	13:13:06
2	Sn 189.927†	5.2	1.4	0.5575	µg/L	0.5575	ppb	13:13:06
2	Ti 334.940†	1275.0	-231.5	-0.4407	µg/L	-0.4407	ppb	13:12:46
2	Tl 190.801†	-12.6	3.1	4.3209	µg/L	4.3209	ppb	13:13:06
2	U 367.007†	273.0	-44.2	-13.761	µg/L	-13.761	ppb	13:12:46
2	V 292.402†	326.7	-15.3	-0.1159	µg/L	-0.1159	ppb	13:12:46
2	Zn 213.857†	515.9	-3.0	-0.0386	µg/L	-0.0386	ppb	13:13:06
3	Sc RADIAL	18332.4	18332.4	85.3	%			13:11:41
3	Al 396.153Radial†	-86.7	-5.4	-9.7282	µg/L	-9.7282	ppb	13:11:41
3	Ca 317.933Radial†	66.9	11.4	7.7168	µg/L	7.7168	ppb	13:12:01
3	Fe 238.204 Radial†	24.3	-2.1	-7.2022	µg/L	-7.2022	ppb	13:12:01
3	K 766.490 Radial†	585.2	5.9	7.7787	µg/L	7.7787	ppb	13:11:41
3	Mg 279.077 IEC†	-1.2	-4.6	-32.067	µg/L	-32.067	ppb	13:12:01
3	Na 589.592 Radial†	-57.3	-25.3	-24.322	µg/L	-24.322	ppb	13:11:41
3	Sr 421.552†	43.5	13.0	0.1527	µg/L	0.1527	ppb	13:11:41
3	Sc 361.383	1123972.7	1123972.7	93.924	%			13:13:08
3	Y 371.029	665686.8	665686.8	94.214	%			13:13:08
3	Ag 328.068†	628.6	23.1	0.1611	µg/L	0.1611	ppb	13:13:10
3	As 188.979†	-3.3	-0.8	-1.8172	µg/L	-1.8172	ppb	13:13:30
3	B 249.677†	299.1	63.2	0.8143	µg/L	0.8143	ppb	13:13:30
3	Ba 233.527†	-77.4	8.0	0.1163	µg/L	0.1163	ppb	13:13:30
3	Be 313.107†	-6286.9	96.2	0.0425	µg/L	0.0425	ppb	13:13:10
3	Cd 226.502†	-84.8	-0.5	-0.0066	µg/L	-0.0066	ppb	13:13:30
3	Co 228.616†	-91.5	8.1	0.2487	µg/L	0.2487	ppb	13:13:30
3	Cr 267.716†	122.5	9.2	0.1724	µg/L	0.1724	ppb	13:13:30
3	Cu 324.752†	3721.5	-60.2	-0.4234	µg/L	-0.4234	ppb	13:13:10
3	Mn 257.610†	209.7	25.2	0.0778	µg/L	0.0778	ppb	13:13:30
3	Mo 202.031†	-11.8	-3.1	-0.3724	µg/L	-0.3724	ppb	13:13:30
3	Ni 231.604†	-40.9	-5.8	-0.1788	µg/L	-0.1788	ppb	13:13:30
3	P 214.914†	-52.6	12.2	12.470	µg/L	12.470	ppb	13:13:30
3	Pb 220.353†	103.0	1.3	0.2814	µg/L	0.2814	ppb	13:13:30
3	S 181.975 Axial†	21.9	-1.4	-4.7052	µg/L	-4.7052	ppb	13:13:30
3	Sb 206.836†	3.0	-3.4	-2.1440	µg/L	-2.1440	ppb	13:13:30
3	Se 196.026†	20.0	4.5	6.30	µg/L	6.30	ppb	13:13:30
3	SiO2†	1702.6	-79.7	-15.036	µg/L	-15.036	ppb	13:13:30
3	Si 251.611†	358.2	26.7	0.8070	µg/L	0.8070	ppb	13:13:30
3	Sn 189.927†	-1.0	-5.0	-2.0241	µg/L	-2.0241	ppb	13:13:30
3	Ti 334.940†	1259.3	-180.0	-0.3483	µg/L	-0.3483	ppb	13:13:10
3	Tl 190.801†	-7.8	7.5	10.380	µg/L	10.380	ppb	13:13:30
3	U 367.007†	306.7	6.4	2.0283	µg/L	2.0283	ppb	13:13:10
3	V 292.402†	325.3	0.7	0.0015	µg/L	0.0015	ppb	13:13:10
3	Zn 213.857†	525.9	35.3	0.4707	µg/L	0.4707	ppb	13:13:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1167085.2	97.527	%	3.1489				3.23%
Sc RADIAL	19817.5	92.2	%	6.10				6.62%
Y 371.029	691212.5	97.826	%	3.1567				3.23%
Ag 328.068†	-12.4	-0.0832	µg/L	0.76427	-0.0832	ppb	0.76427	918.87%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	27.3	48.755	µg/L	83.3824	48.755	ppb	83.3824	171.02%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.7	-3.8962	µg/L	5.24325	-3.8962	ppb	5.24325	134.57%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	43.7	0.5913	µg/L	0.37376	0.5913	ppb	0.37376	63.21%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-3.6	-0.0524	µg/L	0.18078	-0.0524	ppb	0.18078	344.80%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	347.3	0.1536	µg/L	0.10311	0.1536	ppb	0.10311	67.14%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.0	2.0403	µg/L	6.00265	2.0403	ppb	6.00265	294.21%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	1.4	0.0239	µg/L	0.07823	0.0239	ppb	0.07823	326.93%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	7.8	0.2399	µg/L	0.16231	0.2399	ppb	0.16231	67.65%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               10.5      0.2030 µg/L       0.14256      0.2030 ppb        0.14256  70.22%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -206.0     -1.4527 µg/L       1.01443     -1.4527 ppb        1.01443  69.83%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -1.5     -5.1557 µg/L       6.61237     -5.1557 ppb        6.61237 128.25%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -47.3     -61.737 µg/L       60.2233     -61.737 ppb        60.2233  97.55%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -3.8     -26.482 µg/L       31.7111     -26.482 ppb        31.7111 119.75%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               12.4      0.0386 µg/L       0.03426      0.0386 ppb        0.03426  88.81%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                1.2      0.1483 µg/L       0.46242      0.1483 ppb        0.46242 311.86%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         0.4      0.4322 µg/L      21.51788      0.4322 ppb       21.51788 >999.9%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -5.3     -0.1619 µg/L       0.15556     -0.1619 ppb        0.15556  96.08%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 9.1      9.2937 µg/L       8.59858      9.2937 ppb        8.59858  92.52%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                1.3      0.3104 µg/L       0.23984      0.3104 ppb        0.23984  77.26%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.7      5.6930 µg/L      11.60220      5.6930 ppb       11.60220 203.80%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -1.6     -0.9994 µg/L       1.52041     -0.9994 ppb        1.52041 152.14%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -0.9       -1.32 µg/L         7.130       -1.32 ppb          7.130 541.83%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                   -113.7     -21.454 µg/L        6.3512     -21.454 ppb         6.3512  29.60%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                0.6      0.0165 µg/L       0.68506      0.0165 ppb        0.68506 >999.9%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -1.6     -0.6602 µg/L       1.29697     -0.6602 ppb        1.29697 196.46%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               21.0      0.2469 µg/L       0.14961      0.2469 ppb        0.14961  60.60%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -224.4     -0.4305 µg/L       0.07760     -0.4305 ppb        0.07760  18.03%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                3.7      5.0622 µg/L       4.98813      5.0622 ppb        4.98813  98.54%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -18.7     -5.8291 µg/L       7.89491     -5.8291 ppb        7.89491 135.44%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -21.6     -0.1590 µg/L       0.18586     -0.1590 ppb        0.18586 116.85%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               11.7      0.1579 µg/L       0.27384      0.1579 ppb        0.27384 173.43%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 8 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 13:38:09**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	22316.5	22316.5	104	%			13:38:42
1	Al 396.153Radial†	3442.2	3410.6	6095.1	µg/L	6095.1	ppb	13:39:02
1	Ca 317.933Radial†	7719.9	7366.2	4987.9	µg/L	4987.9	ppb	13:39:02
1	Fe 238.204 Radial†	1572.4	1483.5	5016.9	µg/L	5016.9	ppb	13:39:02
1	K 766.490 Radial†	4871.1	4010.1	5243.0	µg/L	5243.0	ppb	13:38:42
1	Mg 279.077 IEC†	768.1	736.4	5170.2	µg/L	5170.2	ppb	13:39:02
1	Na 589.592 Radial†	15322.0	14794.7	14244	µg/L	14244	ppb	13:38:42
1	Sr 421.552†	44770.2	43069.2	507.45	µg/L	507.45	ppb	13:38:42
1	Sc 361.383	1230645.6	1230645.6	102.84	%			13:40:04
1	Y 371.029	714031.3	714031.3	101.06	%			13:40:04
1	Ag 328.068†	75422.1	72694.3	515.36	µg/L	515.36	ppb	13:40:06
1	As 188.979†	210.5	207.4	479.47	µg/L	479.47	ppb	13:40:26
1	B 249.677†	41000.2	39613.4	475.59	µg/L	475.59	ppb	13:40:06
1	Ba 233.527†	35388.1	34501.8	504.70	µg/L	504.70	ppb	13:40:06
1	Be 313.107†	1139793.7	1115124.9	493.08	µg/L	493.08	ppb	13:40:04
1	Cd 226.502†	31516.9	30736.9	496.28	µg/L	496.28	ppb	13:40:06
1	Co 228.616†	16761.6	16404.5	500.86	µg/L	500.86	ppb	13:40:06
1	Cr 267.716†	27264.9	26391.2	500.38	µg/L	500.38	ppb	13:40:06
1	Cu 324.752†	78426.3	72239.4	509.44	µg/L	509.44	ppb	13:40:06
1	Mn 257.610†	171003.0	166085.2	505.63	µg/L	505.63	ppb	13:40:06
1	Mo 202.031†	4288.2	4179.3	503.28	µg/L	503.28	ppb	13:40:26
1	Ni 231.604†	16824.7	16398.1	504.89	µg/L	504.89	ppb	13:40:06
1	P 214.914†	2453.8	2454.2	2496.6	µg/L	2496.6	ppb	13:40:26
1	Pb 220.353†	2344.8	2171.7	494.40	µg/L	494.40	ppb	13:40:26
1	S 181.975 Axial†	321.9	288.3	987.73	µg/L	987.73	ppb	13:40:26
1	Sb 206.836†	820.7	791.5	504.15	µg/L	504.15	ppb	13:40:26
1	Se 196.026†	378.1	350.8	498	µg/L	498	ppb	13:40:26
1	SiO2†	30214.6	27488.3	5198.0	µg/L	5198.0	ppb	13:40:06
1	Si 251.611†	83967.0	81294.8	2438.0	µg/L	2438.0	ppb	13:40:06
1	Sn 189.927†	1293.3	1253.7	507.49	µg/L	507.49	ppb	13:40:26
1	Ti 334.940†	268873.9	259932.2	502.13	µg/L	502.13	ppb	13:40:06
1	Tl 190.801†	338.2	344.7	472.37	µg/L	472.37	ppb	13:40:26
1	U 367.007†	2003.4	1627.9	480.15	µg/L	480.15	ppb	13:40:06
1	V 292.402†	71457.0	69139.2	511.27	µg/L	511.27	ppb	13:40:06
1	Zn 213.857†	39235.5	37628.0	495.57	µg/L	495.57	ppb	13:40:06
2	Sc RADIAL	23052.0	23052.0	107	%			13:39:04
2	Al 396.153Radial†	3468.5	3329.3	5949.8	µg/L	5949.8	ppb	13:39:24
2	Ca 317.933Radial†	7762.9	7169.0	4854.4	µg/L	4854.4	ppb	13:39:24
2	Fe 238.204 Radial†	1584.8	1446.7	4891.9	µg/L	4891.9	ppb	13:39:24
2	K 766.490 Radial†	4928.7	3914.2	5117.9	µg/L	5117.9	ppb	13:39:04
2	Mg 279.077 IEC†	767.9	712.6	5003.1	µg/L	5003.1	ppb	13:39:24
2	Na 589.592 Radial†	15343.5	14344.0	13810	µg/L	13810	ppb	13:39:04
2	Sr 421.552†	45234.3	42126.4	496.34	µg/L	496.34	ppb	13:39:04
2	Sc 361.383	1219247.5	1219247.5	101.89	%			13:40:28
2	Y 371.029	707943.7	707943.7	100.19	%			13:40:28
2	Ag 328.068†	75289.6	73249.8	519.33	µg/L	519.33	ppb	13:40:30
2	As 188.979†	207.6	206.4	477.29	µg/L	477.29	ppb	13:40:50
2	B 249.677†	40908.0	39895.6	479.66	µg/L	479.66	ppb	13:40:30
2	Ba 233.527†	35265.7	34703.3	507.65	µg/L	507.65	ppb	13:40:30
2	Be 313.107†	1125624.3	1111578.9	491.51	µg/L	491.51	ppb	13:40:28
2	Cd 226.502†	31562.6	31068.2	501.65	µg/L	501.65	ppb	13:40:30
2	Co 228.616†	16769.0	16564.2	505.74	µg/L	505.74	ppb	13:40:30
2	Cr 267.716†	27267.0	26641.0	505.12	µg/L	505.12	ppb	13:40:30
2	Cu 324.752†	77977.0	72511.2	511.33	µg/L	511.33	ppb	13:40:30
2	Mn 257.610†	170640.8	167284.3	509.29	µg/L	509.29	ppb	13:40:30
2	Mo 202.031†	4308.4	4238.1	510.34	µg/L	510.34	ppb	13:40:50
2	Ni 231.604†	16787.9	16514.9	508.48	µg/L	508.48	ppb	13:40:30
2	P 214.914†	2487.5	2509.6	2553.3	µg/L	2553.3	ppb	13:40:50
2	Pb 220.353†	2364.7	2212.5	503.71	µg/L	503.71	ppb	13:40:50

2	S 181.975 Axial†	325.6	294.9	1010.3	µg/L	1010.3 ppb	13:40:50
2	Sb 206.836†	829.9	808.1	514.71	µg/L	514.71 ppb	13:40:50
2	Se 196.026†	371.3	347.5	493	µg/L	493 ppb	13:40:50
2	SiO2†	30141.9	27691.6	5236.5	µg/L	5236.5 ppb	13:40:30
2	Si 251.611†	83791.1	81885.5	2455.6	µg/L	2455.6 ppb	13:40:30
2	Sn 189.927†	1311.4	1283.2	519.41	µg/L	519.41 ppb	13:40:50
2	Ti 334.940†	268315.9	261828.7	505.80	µg/L	505.80 ppb	13:40:30
2	Tl 190.801†	340.4	349.9	479.50	µg/L	479.50 ppb	13:40:50
2	U 367.007†	1934.1	1578.2	465.23	µg/L	465.23 ppb	13:40:30
2	V 292.402†	71481.4	69812.7	516.24	µg/L	516.24 ppb	13:40:30
2	Zn 213.857†	39220.1	37969.5	500.09	µg/L	500.09 ppb	13:40:30
3	Sc RADIAL	22344.5	22344.5	104	%		13:39:26
3	Al 396.153Radial†	3459.1	3422.7	6116.7	µg/L	6116.7 ppb	13:39:46
3	Ca 317.933Radial†	7751.9	7387.7	5002.4	µg/L	5002.4 ppb	13:39:46
3	Fe 238.204 Radial†	1587.6	1496.2	5059.9	µg/L	5059.9 ppb	13:39:46
3	K 766.490 Radial†	4975.5	4104.7	5366.4	µg/L	5366.4 ppb	13:39:26
3	Mg 279.077 IEC†	777.6	744.6	5227.8	µg/L	5227.8 ppb	13:39:46
3	Na 589.592 Radial†	15343.4	14796.9	14246	µg/L	14246 ppb	13:39:26
3	Sr 421.552†	45183.9	43413.1	511.50	µg/L	511.50 ppb	13:39:26
3	Sc 361.383	1225178.0	1225178.0	102.38	%		13:40:52
3	Y 371.029	711419.6	711419.6	100.69	%		13:40:52
3	Ag 328.068†	74974.3	72584.2	514.60	µg/L	514.60 ppb	13:40:54
3	As 188.979†	211.0	208.8	482.62	µg/L	482.62 ppb	13:41:14
3	B 249.677†	40813.2	39608.6	475.33	µg/L	475.33 ppb	13:40:54
3	Ba 233.527†	35052.8	34327.8	502.16	µg/L	502.16 ppb	13:40:54
3	Be 313.107†	1135373.6	1115753.7	493.36	µg/L	493.36 ppb	13:40:52
3	Cd 226.502†	31426.7	30785.6	497.06	µg/L	497.06 ppb	13:40:54
3	Co 228.616†	16741.0	16457.2	502.47	µg/L	502.47 ppb	13:40:54
3	Cr 267.716†	27202.5	26448.5	501.48	µg/L	501.48 ppb	13:40:54
3	Cu 324.752†	78035.2	72197.7	509.14	µg/L	509.14 ppb	13:40:54
3	Mn 257.610†	170182.5	166025.9	505.45	µg/L	505.45 ppb	13:40:54
3	Mo 202.031†	4329.6	4238.3	510.38	µg/L	510.38 ppb	13:41:14
3	Ni 231.604†	16735.7	16384.2	504.46	µg/L	504.46 ppb	13:40:54
3	P 214.914†	2483.3	2493.7	2536.9	µg/L	2536.9 ppb	13:41:14
3	Pb 220.353†	2365.3	2201.9	501.30	µg/L	501.30 ppb	13:41:14
3	S 181.975 Axial†	330.5	298.1	1021.2	µg/L	1021.2 ppb	13:41:14
3	Sb 206.836†	831.1	805.3	512.95	µg/L	512.95 ppb	13:41:14
3	Se 196.026†	378.9	353.2	502	µg/L	502 ppb	13:41:14
3	SiO2†	30151.5	27557.7	5211.1	µg/L	5211.1 ppb	13:40:54
3	Si 251.611†	83703.7	81402.0	2441.1	µg/L	2441.1 ppb	13:40:54
3	Sn 189.927†	1312.9	1278.4	517.51	µg/L	517.51 ppb	13:41:14
3	Ti 334.940†	267850.6	260099.5	502.47	µg/L	502.47 ppb	13:40:54
3	Tl 190.801†	343.9	351.7	482.08	µg/L	482.08 ppb	13:41:14
3	U 367.007†	1947.4	1581.9	465.53	µg/L	465.53 ppb	13:40:54
3	V 292.402†	71167.1	69166.1	511.55	µg/L	511.55 ppb	13:40:54
3	Zn 213.857†	39247.8	37810.3	497.99	µg/L	497.99 ppb	13:40:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1225023.7	102.37	%	0.476				0.47%
Sc RADIAL	22571.0	105	%	1.9				1.85%
Y 371.029	711131.5	100.65	%	0.432				0.43%
Ag 328.068†	72842.8	516.43	µg/L	2.539	516.43	ppb	2.539	0.49%
QC value within limits for Ag 328.068 Recovery = 103.29%								
Al 396.153Radial†	3387.5	6053.9	µg/L	90.79	6053.9	ppb	90.79	1.50%
QC value greater than the upper limit for Al 396.153Radial Recovery = 121.08%								
As 188.979†	207.6	479.79	µg/L	2.677	479.79	ppb	2.677	0.56%
QC value within limits for As 188.979 Recovery = 95.96%								
B 249.677†	39705.9	476.86	µg/L	2.427	476.86	ppb	2.427	0.51%
QC value within limits for B 249.677 Recovery = 95.37%								
Ba 233.527†	34511.0	504.84	µg/L	2.750	504.84	ppb	2.750	0.54%
QC value within limits for Ba 233.527 Recovery = 100.97%								
Be 313.107†	1114152.5	492.65	µg/L	0.995	492.65	ppb	0.995	0.20%
QC value within limits for Be 313.107 Recovery = 98.53%								
Ca 317.933Radial†	7307.6	4948.2	µg/L	81.58	4948.2	ppb	81.58	1.65%
QC value within limits for Ca 317.933Radial Recovery = 98.96%								
Cd 226.502†	30863.5	498.33	µg/L	2.903	498.33	ppb	2.903	0.58%
QC value within limits for Cd 226.502 Recovery = 99.67%								
Co 228.616†	16475.3	503.02	µg/L	2.486	503.02	ppb	2.486	0.49%

```
   QC value within limits for Co 228.616  Recovery = 100.60%
Cr 267.716†            26493.6      502.33 µg/L         2.485      502.33 ppb          2.485   0.49%
   QC value within limits for Cr 267.716  Recovery = 100.47%
Cu 324.752†            72316.1      509.97 µg/L         1.185      509.97 ppb          1.185   0.23%
   QC value within limits for Cu 324.752  Recovery = 101.99%
Fe 238.204 Radial†      1475.5      4989.6 µg/L         87.24      4989.6 ppb          87.24   1.75%
   QC value within limits for Fe 238.204 Radial  Recovery = 99.79%
K 766.490 Radial†       4009.7      5242.4 µg/L        124.26      5242.4 ppb         124.26   2.37%
   QC value within limits for K 766.490 Radial  Recovery = 104.85%
Mg 279.077 IEC†          731.2      5133.7 µg/L        116.67      5133.7 ppb         116.67   2.27%
   QC value within limits for Mg 279.077 IEC  Recovery = 102.67%
Mn 257.610†           166465.1      506.79 µg/L         2.164      506.79 ppb          2.164   0.43%
   QC value within limits for Mn 257.610  Recovery = 101.36%
Mo 202.031†             4218.6      508.00 µg/L         4.091      508.00 ppb          4.091   0.81%
   QC value within limits for Mo 202.031  Recovery = 101.60%
Na 589.592 Radial†     14645.2       14100 µg/L         251.1       14100 ppb          251.1   1.78%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 141.00%
Ni 231.604†            16432.4      505.94 µg/L         2.210      505.94 ppb          2.210   0.44%
   QC value within limits for Ni 231.604  Recovery = 101.19%
P 214.914†              2485.8      2528.9 µg/L         29.19      2528.9 ppb          29.19   1.15%
   QC value within limits for P 214.914  Recovery = 101.16%
Pb 220.353†             2195.3      499.80 µg/L         4.829      499.80 ppb          4.829   0.97%
   QC value within limits for Pb 220.353  Recovery = 99.96%
S 181.975 Axial†         293.8      1006.4 µg/L         17.06      1006.4 ppb          17.06   1.70%
   QC value within limits for S 181.975 Axial  Recovery = 100.64%
Sb 206.836†              801.6      510.60 µg/L         5.655      510.60 ppb          5.655   1.11%
   QC value within limits for Sb 206.836  Recovery = 102.12%
Se 196.026†              350.5         498 µg/L           4.1         498 ppb            4.1   0.82%
   QC value within limits for Se 196.026  Recovery = 99.54%
SiO2†                  27579.2      5215.2 µg/L         19.55      5215.2 ppb          19.55   0.37%
   QC value within limits for SiO2  Recovery = 97.53%
Si 251.611†            81527.4      2444.9 µg/L          9.42      2444.9 ppb           9.42   0.39%
   QC value within limits for Si 251.611  Recovery = 97.80%
Sn 189.927†             1271.8      514.80 µg/L         6.401      514.80 ppb          6.401   1.24%
   QC value within limits for Sn 189.927  Recovery = 102.96%
Sr 421.552†            42869.6      505.10 µg/L         7.849      505.10 ppb          7.849   1.55%
   QC value within limits for Sr 421.552  Recovery = 101.02%
Ti 334.940†           260620.1      503.47 µg/L         2.027      503.47 ppb          2.027   0.40%
   QC value within limits for Ti 334.940  Recovery = 100.69%
Tl 190.801†              348.8      477.98 µg/L         5.027      477.98 ppb          5.027   1.05%
   QC value within limits for Tl 190.801  Recovery = 95.60%
U 367.007†              1596.0      470.31 µg/L         8.526      470.31 ppb          8.526   1.81%
   QC value within limits for U 367.007  Recovery = 94.06%
V 292.402†             69372.6      513.02 µg/L         2.791      513.02 ppb          2.791   0.54%
   QC value within limits for V 292.402  Recovery = 102.60%
Zn 213.857†            37802.6      497.88 µg/L         2.265      497.88 ppb          2.265   0.45%
   QC value within limits for Zn 213.857  Recovery = 99.58%
QC Failed.  Continue with analysis.
```

Sequence No.: 9 **Autosampler Location: 109**
Sample ID: PQL **Date Collected: 11/7/2013 13:41:23**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21586.0	21586.0	100	%			13:42:13
1	Al 396.153Radial†	63.1	159.0	284.33	µg/L	284.33	ppb	13:42:13
1	Ca 317.933Radial†	400.6	331.8	224.64	µg/L	224.64	ppb	13:42:33
1	Fe 238.204 Radial†	59.3	28.5	96.568	µg/L	96.568	ppb	13:42:33
1	K 766.490 Radial†	742.7	59.3	77.428	µg/L	77.428	ppb	13:42:13
1	Mg 279.077 IEC†	46.5	43.1	302.63	µg/L	302.63	ppb	13:42:33
1	Na 589.592 Radial†	467.5	507.2	488.36	µg/L	488.36	ppb	13:42:13
1	Sr 421.552†	497.8	457.5	5.3894	µg/L	5.3894	ppb	13:42:13
1	Sc 361.383	1192601.4	1192601.4	99.659	%			13:44:10
1	Y 371.029	706100.5	706100.5	99.933	%			13:44:10
1	Ag 328.068†	1345.9	704.3	4.9588	µg/L	4.9588	ppb	13:44:13
1	As 188.979†	8.7	11.5	26.175	µg/L	26.175	ppb	13:44:33
1	B 249.677†	4133.9	3892.8	48.250	µg/L	48.250	ppb	13:44:13
1	Ba 233.527†	266.8	358.1	5.2367	µg/L	5.2367	ppb	13:44:33
1	Be 313.107†	5391.5	12199.7	5.3944	µg/L	5.3944	ppb	13:44:13
1	Cd 226.502†	240.8	331.5	5.3462	µg/L	5.3462	ppb	13:44:33
1	Co 228.616†	62.0	167.8	5.1303	µg/L	5.1303	ppb	13:44:33
1	Cr 267.716†	380.0	260.1	4.9040	µg/L	4.9040	ppb	13:44:33
1	Cu 324.752†	5102.9	1098.0	7.7603	µg/L	7.7603	ppb	13:44:13
1	Mn 257.610†	3654.7	3469.2	10.554	µg/L	10.554	ppb	13:44:33
1	Mo 202.031†	76.4	86.1	10.378	µg/L	10.378	ppb	13:44:33
1	Ni 231.604†	141.4	179.7	5.5314	µg/L	5.5314	ppb	13:44:33
1	P 214.914†	95.6	164.0	167.60	µg/L	167.60	ppb	13:44:33
1	Pb 220.353†	158.3	50.4	11.450	µg/L	11.450	ppb	13:44:33
1	S 181.975 Axial†	51.2	26.7	91.617	µg/L	91.617	ppb	13:44:33
1	Sb 206.836†	21.0	14.6	9.3107	µg/L	9.3107	ppb	13:44:33
1	Se 196.026†	45.3	28.6	40.5	µg/L	40.5	ppb	13:44:33
1	SiO2†	2885.6	1003.0	189.41	µg/L	189.41	ppb	13:44:13
1	Si 251.611†	3633.0	3290.7	98.809	µg/L	98.809	ppb	13:44:13
1	Sn 189.927†	25.6	21.7	8.8089	µg/L	8.8089	ppb	13:44:33
1	Ti 334.940†	3889.7	2382.3	4.5909	µg/L	4.5909	ppb	13:44:13
1	Tl 190.801†	1.4	17.3	23.849	µg/L	23.849	ppb	13:44:33
1	U 367.007†	453.2	134.6	41.526	µg/L	41.526	ppb	13:44:13
1	V 292.402†	1013.7	671.5	5.0619	µg/L	5.0619	ppb	13:44:13
1	Zn 213.857†	1324.4	804.3	10.620	µg/L	10.620	ppb	13:44:33
2	Sc RADIAL	21270.9	21270.9	99.0	%			13:42:53
2	Al 396.153Radial†	65.3	162.2	289.92	µg/L	289.92	ppb	13:42:53
2	Ca 317.933Radial†	390.3	327.3	221.59	µg/L	221.59	ppb	13:43:13
2	Fe 238.204 Radial†	59.1	29.1	98.591	µg/L	98.591	ppb	13:43:13
2	K 766.490 Radial†	718.8	46.1	60.195	µg/L	60.195	ppb	13:42:53
2	Mg 279.077 IEC†	52.6	50.0	350.72	µg/L	350.72	ppb	13:43:13
2	Na 589.592 Radial†	461.7	508.3	489.35	µg/L	489.35	ppb	13:42:53
2	Sr 421.552†	507.4	474.6	5.5903	µg/L	5.5903	ppb	13:42:53
2	Sc 361.383	1209125.9	1209125.9	101.04	%			13:44:35
2	Y 371.029	717127.2	717127.2	101.49	%			13:44:35
2	Ag 328.068†	1444.6	783.6	5.5343	µg/L	5.5343	ppb	13:44:37
2	As 188.979†	5.9	8.6	19.623	µg/L	19.623	ppb	13:44:57
2	B 249.677†	4121.9	3824.2	47.391	µg/L	47.391	ppb	13:44:37
2	Ba 233.527†	252.1	339.9	4.9717	µg/L	4.9717	ppb	13:44:57
2	Be 313.107†	5498.1	12231.2	5.4083	µg/L	5.4083	ppb	13:44:37
2	Cd 226.502†	246.6	334.0	5.3863	µg/L	5.3863	ppb	13:44:57
2	Co 228.616†	52.7	157.8	4.8232	µg/L	4.8232	ppb	13:44:57
2	Cr 267.716†	394.4	269.2	5.0866	µg/L	5.0866	ppb	13:44:57
2	Cu 324.752†	5259.9	1183.4	8.3540	µg/L	8.3540	ppb	13:44:37
2	Mn 257.610†	3648.0	3412.4	10.380	µg/L	10.380	ppb	13:44:57
2	Mo 202.031†	76.2	84.9	10.227	µg/L	10.227	ppb	13:44:57
2	Ni 231.604†	140.3	176.6	5.4371	µg/L	5.4371	ppb	13:44:57
2	P 214.914†	98.0	165.1	168.71	µg/L	168.71	ppb	13:44:57
2	Pb 220.353†	162.0	51.9	11.794	µg/L	11.794	ppb	13:44:57

2	S 181.975 Axial†	52.9	27.6	94.963 µg/L	94.963 ppb	13:44:57
2	Sb 206.836†	21.4	14.7	9.3733 µg/L	9.3733 ppb	13:44:57
2	Se 196.026†	32.6	15.4	21.9 µg/L	21.9 ppb	13:44:57
2	SiO2†	2909.5	987.1	186.41 µg/L	186.41 ppb	13:44:37
2	Si 251.611†	3676.5	3284.0	98.609 µg/L	98.609 ppb	13:44:37
2	Sn 189.927†	32.5	28.2	11.425 µg/L	11.425 ppb	13:44:57
2	Ti 334.940†	3905.4	2344.5	4.5256 µg/L	4.5256 ppb	13:44:37
2	Tl 190.801†	1.7	17.5	24.164 µg/L	24.164 ppb	13:44:57
2	U 367.007†	407.3	82.9	25.349 µg/L	25.349 ppb	13:44:37
2	V 292.402†	1053.9	697.4	5.2396 µg/L	5.2396 ppb	13:44:37
2	Zn 213.857†	1313.8	775.6	10.239 µg/L	10.239 ppb	13:44:57
3	Sc RADIAL	21106.6	21106.6	98.2 %		13:43:33
3	Al 396.153Radial†	57.4	154.6	276.49 µg/L	276.49 ppb	13:43:33
3	Ca 317.933Radial†	388.6	328.6	222.51 µg/L	222.51 ppb	13:43:53
3	Fe 238.204 Radial†	55.9	26.4	89.344 µg/L	89.344 ppb	13:43:53
3	K 766.490 Radial†	719.9	52.9	69.014 µg/L	69.014 ppb	13:43:33
3	Mg 279.077 IEC†	47.9	45.5	319.65 µg/L	319.65 ppb	13:43:53
3	Na 589.592 Radial†	475.5	525.9	506.33 µg/L	506.33 ppb	13:43:33
3	Sr 421.552†	498.2	469.2	5.5270 µg/L	5.5270 ppb	13:43:33
3	Sc 361.383	1207713.2	1207713.2	100.92 %		13:44:59
3	Y 371.029	716031.3	716031.3	101.34 %		13:44:59
3	Ag 328.068†	1212.6	555.3	3.8971 µg/L	3.8971 ppb	13:45:01
3	As 188.979†	5.3	7.9	18.112 µg/L	18.112 ppb	13:45:21
3	B 249.677†	4176.3	3882.9	48.158 µg/L	48.158 ppb	13:45:01
3	Ba 233.527†	277.4	365.3	5.3406 µg/L	5.3406 ppb	13:45:21
3	Be 313.107†	5268.5	12010.1	5.3106 µg/L	5.3106 ppb	13:45:01
3	Cd 226.502†	234.0	321.7	5.1897 µg/L	5.1897 ppb	13:45:21
3	Co 228.616†	70.5	175.5	5.3632 µg/L	5.3632 ppb	13:45:21
3	Cr 267.716†	396.3	271.4	5.1136 µg/L	5.1136 ppb	13:45:21
3	Cu 324.752†	5225.9	1155.7	8.1695 µg/L	8.1695 ppb	13:45:01
3	Mn 257.610†	3644.8	3413.5	10.384 µg/L	10.384 ppb	13:45:21
3	Mo 202.031†	75.0	83.7	10.092 µg/L	10.092 ppb	13:45:21
3	Ni 231.604†	137.1	173.6	5.3447 µg/L	5.3447 ppb	13:45:21
3	P 214.914†	101.7	168.9	172.65 µg/L	172.65 ppb	13:45:21
3	Pb 220.353†	137.5	27.8	6.3167 µg/L	6.3167 ppb	13:45:21
3	S 181.975 Axial†	56.9	31.7	108.82 µg/L	108.82 ppb	13:45:21
3	Sb 206.836†	18.5	11.8	7.5722 µg/L	7.5722 ppb	13:45:21
3	Se 196.026†	35.9	18.7	26.5 µg/L	26.5 ppb	13:45:21
3	SiO2†	2851.5	933.0	176.19 µg/L	176.19 ppb	13:45:01
3	Si 251.611†	3642.3	3254.4	97.719 µg/L	97.719 ppb	13:45:01
3	Sn 189.927†	29.3	25.1	10.175 µg/L	10.175 ppb	13:45:21
3	Ti 334.940†	3974.1	2417.1	4.6539 µg/L	4.6539 ppb	13:45:01
3	Tl 190.801†	2.8	18.5	25.623 µg/L	25.623 ppb	13:45:21
3	U 367.007†	483.5	158.9	49.160 µg/L	49.160 ppb	13:45:01
3	V 292.402†	980.7	626.1	4.7316 µg/L	4.7316 ppb	13:45:01
3	Zn 213.857†	1317.3	780.7	10.308 µg/L	10.308 ppb	13:45:21

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1203146.8	100.54	%	0.765				0.76%
Sc RADIAL	21321.2	99.2	%	1.13				1.14%
Y 371.029	713086.3	100.92	%	0.860				0.85%
Ag 328.068†	681.1	4.7967	µg/L	0.83055	4.7967	ppb	0.83055	17.31%
QC value within limits for Ag 328.068 Recovery = 95.93%								
Al 396.153Radial†	158.6	283.58	µg/L	6.745	283.58	ppb	6.745	2.38%
QC value greater than the upper limit for Al 396.153Radial Recovery = 141.79%								
As 188.979†	9.3	21.303	µg/L	4.2863	21.303	ppb	4.2863	20.12%
QC value within limits for As 188.979 Recovery = 71.01%								
B 249.677†	3866.7	47.933	µg/L	0.4715	47.933	ppb	0.4715	0.98%
QC value within limits for B 249.677 Recovery = 95.87%								
Ba 233.527†	354.4	5.1830	µg/L	0.19023	5.1830	ppb	0.19023	3.67%
QC value within limits for Ba 233.527 Recovery = 103.66%								
Be 313.107†	12147.0	5.3711	µg/L	0.05288	5.3711	ppb	0.05288	0.98%
QC value within limits for Be 313.107 Recovery = 107.42%								
Ca 317.933Radial†	329.2	222.91	µg/L	1.567	222.91	ppb	1.567	0.70%
QC value within limits for Ca 317.933Radial Recovery = 111.46%								
Cd 226.502†	329.0	5.3074	µg/L	0.10390	5.3074	ppb	0.10390	1.96%
QC value within limits for Cd 226.502 Recovery = 106.15%								
Co 228.616†	167.0	5.1056	µg/L	0.27086	5.1056	ppb	0.27086	5.31%

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   QC value within limits for Co 228.616  Recovery = 102.11%
Cr 267.716†              266.9      5.0347 µg/L       0.11405      5.0347 ppb        0.11405   2.27%
   QC value within limits for Cr 267.716  Recovery = 100.69%
Cu 324.752†             1145.7      8.0946 µg/L       0.30385      8.0946 ppb        0.30385   3.75%
   QC value within limits for Cu 324.752  Recovery = 80.95%
Fe 238.204 Radial†        28.0      94.834 µg/L        4.8610      94.834 ppb         4.8610   5.13%
   QC value within limits for Fe 238.204 Radial  Recovery = 94.83%
K 766.490 Radial†         52.8      68.879 µg/L        8.6173      68.879 ppb         8.6173  12.51%
   QC value less than the lower limit for K 766.490 Radial  Recovery = 45.92%
Mg 279.077 IEC†           46.2      324.33 µg/L        24.385      324.33 ppb         24.385   7.52%
   QC value within limits for Mg 279.077 IEC  Recovery = 108.11%
Mn 257.610†             3431.7      10.439 µg/L        0.0996      10.439 ppb         0.0996   0.95%
   QC value within limits for Mn 257.610  Recovery = 104.39%
Mo 202.031†               84.9      10.232 µg/L        0.1433      10.232 ppb         0.1433   1.40%
   QC value within limits for Mo 202.031  Recovery = 102.32%
Na 589.592 Radial†       513.8      494.68 µg/L        10.103      494.68 ppb         10.103   2.04%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 164.89%
Ni 231.604†              176.6      5.4377 µg/L       0.09335      5.4377 ppb        0.09335   1.72%
   QC value within limits for Ni 231.604  Recovery = 108.75%
P 214.914†               166.0      169.65 µg/L         2.654      169.65 ppb          2.654   1.56%
   QC value within limits for P 214.914  Recovery = 113.10%
Pb 220.353†               43.4      9.8535 µg/L       3.06781      9.8535 ppb        3.06781  31.13%
   QC value within limits for Pb 220.353  Recovery = 98.54%
S 181.975 Axial†          28.7      98.468 µg/L        9.1235      98.468 ppb         9.1235   9.27%
   QC value within limits for S 181.975 Axial  Recovery = 98.47%
Sb 206.836†               13.7      8.7521 µg/L       1.02230      8.7521 ppb        1.02230  11.68%
   QC value within limits for Sb 206.836  Recovery = 87.52%
Se 196.026†               20.9        29.6 µg/L          9.69        29.6 ppb           9.69  32.69%
   QC value within limits for Se 196.026  Recovery = 98.76%
SiO2†                    974.4      184.00 µg/L         6.928      184.00 ppb          6.928   3.76%
   QC value within limits for SiO2  Recovery = 86.39%
Si 251.611†             3276.4      98.379 µg/L        0.5801      98.379 ppb         0.5801   0.59%
   QC value within limits for Si 251.611  Recovery = 98.38%
Sn 189.927†               25.0      10.136 µg/L        1.3085      10.136 ppb         1.3085  12.91%
   QC value within limits for Sn 189.927  Recovery = 101.36%
Sr 421.552†              467.1      5.5022 µg/L       0.10272      5.5022 ppb        0.10272   1.87%
   QC value within limits for Sr 421.552  Recovery = 110.04%
Ti 334.940†             2381.3      4.5901 µg/L       0.06415      4.5901 ppb        0.06415   1.40%
   QC value within limits for Ti 334.940  Recovery = 91.80%
Tl 190.801†               17.8      24.545 µg/L        0.9464      24.545 ppb         0.9464   3.86%
   QC value within limits for Tl 190.801  Recovery = 122.73%
U 367.007†               125.5      38.678 µg/L       12.1582      38.678 ppb        12.1582  31.43%
   QC value within limits for U 367.007  Recovery = 77.36%
V 292.402†               665.0      5.0110 µg/L       0.25782      5.0110 ppb        0.25782   5.15%
   QC value within limits for V 292.402  Recovery = 100.22%
Zn 213.857†              786.9      10.389 µg/L        0.2030      10.389 ppb         0.2030   1.95%
   QC value within limits for Zn 213.857  Recovery = 103.89%
QC Failed.  Continue with analysis.
```

Sequence No.: 10
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/7/2013 13:45:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21602.9	21602.9	101	%			13:46:19
1	Al 396.153Radial†	-81.9	14.8	26.443	µg/L	26.443	ppb	13:46:19
1	Ca 317.933Radial†	69.8	2.4	1.6507	µg/L	1.6507	ppb	13:46:39
1	Fe 238.204 Radial†	27.3	-3.4	-11.571	µg/L	-11.571	ppb	13:46:39
1	K 766.490 Radial†	619.9	-63.4	-82.771	µg/L	-82.771	ppb	13:46:19
1	Mg 279.077 IEC†	3.2	-0.0	-0.3496	µg/L	-0.3496	ppb	13:46:39
1	Na 589.592 Radial†	-35.8	6.3	6.0532	µg/L	6.0532	ppb	13:46:19
1	Sr 421.552†	45.5	7.2	0.0852	µg/L	0.0852	ppb	13:46:19
1	Sc 361.383	1208565.8	1208565.8	100.99	%			13:48:17
1	Y 371.029	716891.2	716891.2	101.46	%			13:48:17
1	Ag 328.068†	648.0	-4.5	-0.0297	µg/L	-0.0297	ppb	13:48:19
1	As 188.979†	-5.4	-2.6	-5.9540	µg/L	-5.9540	ppb	13:48:39
1	B 249.677†	280.8	22.8	0.3632	µg/L	0.3632	ppb	13:48:39
1	Ba 233.527†	-97.7	-6.4	-0.0956	µg/L	-0.0956	ppb	13:48:39
1	Be 313.107†	-6119.7	730.2	0.3229	µg/L	0.3229	ppb	13:48:19
1	Cd 226.502†	-76.2	14.4	0.2348	µg/L	0.2348	ppb	13:48:39
1	Co 228.616†	-100.8	5.8	0.1773	µg/L	0.1773	ppb	13:48:39
1	Cr 267.716†	137.0	14.5	0.2777	µg/L	0.2777	ppb	13:48:39
1	Cu 324.752†	3702.6	-356.2	-2.5104	µg/L	-2.5104	ppb	13:48:19
1	Mn 257.610†	241.1	40.7	0.1237	µg/L	0.1237	ppb	13:48:39
1	Mo 202.031†	-12.9	-3.4	-0.4046	µg/L	-0.4046	ppb	13:48:39
1	Ni 231.604†	-36.5	1.6	0.0508	µg/L	0.0508	ppb	13:48:39
1	P 214.914†	-55.2	13.5	13.853	µg/L	13.853	ppb	13:48:39
1	Pb 220.353†	112.2	2.7	0.6085	µg/L	0.6085	ppb	13:48:39
1	S 181.975 Axial†	21.9	-3.0	-10.477	µg/L	-10.477	ppb	13:48:39
1	Sb 206.836†	5.8	-0.8	-0.4942	µg/L	-0.4942	ppb	13:48:39
1	Se 196.026†	16.5	-0.5	-0.700	µg/L	-0.700	ppb	13:48:39
1	SiO2†	1752.9	-156.8	-29.592	µg/L	-29.592	ppb	13:48:39
1	Si 251.611†	353.9	-4.2	-0.1220	µg/L	-0.1220	ppb	13:48:39
1	Sn 189.927†	2.6	-1.4	-0.5517	µg/L	-0.5517	ppb	13:48:39
1	Ti 334.940†	1242.4	-290.6	-0.5586	µg/L	-0.5586	ppb	13:48:19
1	Tl 190.801†	-14.3	1.7	2.2858	µg/L	2.2858	ppb	13:48:39
1	U 367.007†	304.4	-18.8	-5.8143	µg/L	-5.8143	ppb	13:48:19
1	V 292.402†	225.4	-122.4	-0.9005	µg/L	-0.9005	ppb	13:48:19
1	Zn 213.857†	525.2	-4.6	-0.0586	µg/L	-0.0586	ppb	13:48:39
2	Sc RADIAL	21058.7	21058.7	98.0	%			13:46:59
2	Al 396.153Radial†	-73.7	21.0	37.610	µg/L	37.610	ppb	13:46:59
2	Ca 317.933Radial†	70.9	5.4	3.6485	µg/L	3.6485	ppb	13:47:19
2	Fe 238.204 Radial†	28.7	-1.2	-4.1953	µg/L	-4.1953	ppb	13:47:19
2	K 766.490 Radial†	601.0	-66.7	-87.196	µg/L	-87.196	ppb	13:46:59
2	Mg 279.077 IEC†	2.2	-1.0	-6.7285	µg/L	-6.7285	ppb	13:47:19
2	Na 589.592 Radial†	10.4	52.4	50.493	µg/L	50.493	ppb	13:46:59
2	Sr 421.552†	45.1	8.1	0.0951	µg/L	0.0951	ppb	13:46:59
2	Sc 361.383	1216491.5	1216491.5	101.66	%			13:48:41
2	Y 371.029	721279.0	721279.0	102.08	%			13:48:41
2	Ag 328.068†	551.6	-103.6	-0.7154	µg/L	-0.7154	ppb	13:48:43
2	As 188.979†	-6.2	-3.4	-7.7283	µg/L	-7.7283	ppb	13:49:03
2	B 249.677†	287.1	27.2	0.3917	µg/L	0.3917	ppb	13:49:03
2	Ba 233.527†	-104.4	-12.3	-0.1787	µg/L	-0.1787	ppb	13:49:03
2	Be 313.107†	-5998.4	889.0	0.3931	µg/L	0.3931	ppb	13:48:43
2	Cd 226.502†	-95.9	-4.5	-0.0718	µg/L	-0.0718	ppb	13:49:03
2	Co 228.616†	-103.9	3.4	0.1046	µg/L	0.1046	ppb	13:49:03
2	Cr 267.716†	147.5	23.9	0.4642	µg/L	0.4642	ppb	13:49:03
2	Cu 324.752†	3741.7	-341.6	-2.4124	µg/L	-2.4124	ppb	13:48:43
2	Mn 257.610†	203.6	2.3	0.0070	µg/L	0.0070	ppb	13:49:03
2	Mo 202.031†	-7.3	2.2	0.2697	µg/L	0.2697	ppb	13:49:03
2	Ni 231.604†	-31.5	6.8	0.2089	µg/L	0.2089	ppb	13:49:03
2	P 214.914†	-68.9	0.3	0.3836	µg/L	0.3836	ppb	13:49:03
2	Pb 220.353†	118.2	7.8	1.7943	µg/L	1.7943	ppb	13:49:03

2	S 181.975 Axial†	24.1	-1.0	-3.4739	µg/L	-3.4739	ppb	13:49:03
2	Sb 206.836†	8.1	1.5	0.9285	µg/L	0.9285	ppb	13:49:03
2	Se 196.026†	15.1	-2.0	-2.78	µg/L	-2.78	ppb	13:49:03
2	SiO2†	1749.8	-171.2	-32.297	µg/L	-32.297	ppb	13:49:03
2	Si 251.611†	357.0	-3.4	-0.1072	µg/L	-0.1072	ppb	13:49:03
2	Sn 189.927†	4.0	0.1	0.0259	µg/L	0.0259	ppb	13:49:03
2	Ti 334.940†	1230.6	-310.1	-0.5904	µg/L	-0.5904	ppb	13:48:43
2	Tl 190.801†	-10.7	5.3	7.2874	µg/L	7.2874	ppb	13:49:03
2	U 367.007†	269.2	-55.3	-17.281	µg/L	-17.281	ppb	13:48:43
2	V 292.402†	415.9	63.5	0.4565	µg/L	0.4565	ppb	13:48:43
2	Zn 213.857†	520.6	-12.6	-0.1658	µg/L	-0.1658	ppb	13:49:03
3	Sc RADIAL	21129.9	21129.9	98.3	%			13:47:39
3	Al 396.153Radial†	-86.2	8.6	15.380	µg/L	15.380	ppb	13:47:39
3	Ca 317.933Radial†	68.3	2.4	1.6660	µg/L	1.6660	ppb	13:47:59
3	Fe 238.204 Radial†	30.9	0.8	2.8214	µg/L	2.8214	ppb	13:47:59
3	K 766.490 Radial†	599.7	-70.2	-91.648	µg/L	-91.648	ppb	13:47:39
3	Mg 279.077 IEC†	-2.3	-5.5	-38.601	µg/L	-38.601	ppb	13:47:59
3	Na 589.592 Radial†	-34.1	7.1	6.8814	µg/L	6.8814	ppb	13:47:39
3	Sr 421.552†	40.9	3.6	0.0423	µg/L	0.0423	ppb	13:47:39
3	Sc 361.383	1200240.5	1200240.5	100.30	%			13:49:05
3	Y 371.029	711940.3	711940.3	100.76	%			13:49:05
3	Ag 328.068†	649.3	1.2	0.0235	µg/L	0.0235	ppb	13:49:07
3	As 188.979†	-6.7	-4.0	-8.9997	µg/L	-8.9997	ppb	13:49:27
3	B 249.677†	274.6	18.6	0.2591	µg/L	0.2591	ppb	13:49:27
3	Ba 233.527†	-99.3	-8.7	-0.1264	µg/L	-0.1264	ppb	13:49:27
3	Be 313.107†	-6124.6	683.2	0.3021	µg/L	0.3021	ppb	13:49:07
3	Cd 226.502†	-92.7	-2.5	-0.0413	µg/L	-0.0413	ppb	13:49:27
3	Co 228.616†	-104.9	1.0	0.0301	µg/L	0.0301	ppb	13:49:27
3	Cr 267.716†	137.7	16.1	0.3164	µg/L	0.3164	ppb	13:49:27
3	Cu 324.752†	3681.5	-351.8	-2.4832	µg/L	-2.4832	ppb	13:49:07
3	Mn 257.610†	214.4	15.7	0.0494	µg/L	0.0494	ppb	13:49:27
3	Mo 202.031†	-9.3	0.1	0.0159	µg/L	0.0159	ppb	13:49:27
3	Ni 231.604†	-36.7	1.1	0.0342	µg/L	0.0342	ppb	13:49:27
3	P 214.914†	-61.8	6.5	6.6486	µg/L	6.6486	ppb	13:49:27
3	Pb 220.353†	97.7	-11.0	-2.4866	µg/L	-2.4866	ppb	13:49:27
3	S 181.975 Axial†	21.3	-3.5	-12.050	µg/L	-12.050	ppb	13:49:27
3	Sb 206.836†	6.3	-0.3	-0.1734	µg/L	-0.1734	ppb	13:49:27
3	Se 196.026†	13.2	-3.7	-5.17	µg/L	-5.17	ppb	13:49:27
3	SiO2†	1754.6	-143.0	-26.991	µg/L	-26.991	ppb	13:49:27
3	Si 251.611†	352.7	-3.0	-0.0895	µg/L	-0.0895	ppb	13:49:27
3	Sn 189.927†	4.7	0.7	0.3032	µg/L	0.3032	ppb	13:49:27
3	Ti 334.940†	1377.0	-147.8	-0.2770	µg/L	-0.2770	ppb	13:49:07
3	Tl 190.801†	-14.8	1.1	1.5054	µg/L	1.5054	ppb	13:49:27
3	U 367.007†	268.2	-52.8	-16.528	µg/L	-16.528	ppb	13:49:07
3	V 292.402†	346.2	-0.5	-0.0118	µg/L	-0.0118	ppb	13:49:07
3	Zn 213.857†	517.6	-8.6	-0.1119	µg/L	-0.1119	ppb	13:49:27

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1208432.6	100.98	%	0.679				0.67%
Sc RADIAL	21263.8	99.0	%	1.38				1.39%
Y 371.029	716703.5	101.43	%	0.661				0.65%
Ag 328.068†	-35.6	-0.2405	µg/L	0.41208	-0.2405	ppb	0.41208	171.32%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	14.8	26.478	µg/L	11.1153	26.478	ppb	11.1153	41.98%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.3	-7.5606	µg/L	1.52975	-7.5606	ppb	1.52975	20.23%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	22.9	0.3380	µg/L	0.06981	0.3380	ppb	0.06981	20.65%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-9.1	-0.1336	µg/L	0.04204	-0.1336	ppb	0.04204	31.47%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	767.5	0.3394	µg/L	0.04767	0.3394	ppb	0.04767	14.05%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3.4	2.3217	µg/L	1.14906	2.3217	ppb	1.14906	49.49%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	2.5	0.0406	µg/L	0.16890	0.0406	ppb	0.16890	416.21%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	3.4	0.1040	µg/L	0.07359	0.1040	ppb	0.07359	70.77%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               18.1      0.3528 µg/L       0.09842      0.3528 ppb        0.09842  27.90%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -349.9     -2.4687 µg/L       0.05062     -2.4687 ppb        0.05062   2.05%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -1.3     -4.3151 µg/L       7.19704     -4.3151 ppb        7.19704 166.79%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -66.8     -87.205 µg/L        4.4388     -87.205 ppb         4.4388   5.09%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.2     -15.226 µg/L       20.4927     -15.226 ppb        20.4927 134.59%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               19.6      0.0601 µg/L       0.05908      0.0601 ppb        0.05908  98.36%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -0.3     -0.0397 µg/L       0.34058     -0.0397 ppb        0.34058 858.63%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        22.0      21.142 µg/L       25.4214      21.142 ppb        25.4214 120.24%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                3.2      0.0980 µg/L       0.09647      0.0980 ppb        0.09647  98.49%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 6.8      6.9618 µg/L       6.74018      6.9618 ppb        6.74018  96.82%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -0.2     -0.0279 µg/L       2.21031     -0.0279 ppb        2.21031 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -2.5     -8.6671 µg/L       4.56574     -8.6671 ppb        4.56574  52.68%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                0.1      0.0870 µg/L       0.74625      0.0870 ppb        0.74625 858.08%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -2.0       -2.88 µg/L         2.236       -2.88 ppb          2.236  77.58%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                   -157.0     -29.627 µg/L        2.6532     -29.627 ppb         2.6532   8.96%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               -3.5     -0.1062 µg/L       0.01625     -0.1062 ppb        0.01625  15.30%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -0.2     -0.0742 µg/L       0.43614     -0.0742 ppb        0.43614 587.79%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                6.3      0.0742 µg/L       0.02806      0.0742 ppb        0.02806  37.80%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -249.5     -0.4753 µg/L       0.17251     -0.4753 ppb        0.17251  36.29%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                2.7      3.6928 µg/L       3.13731      3.6928 ppb        3.13731  84.96%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -42.3     -13.208 µg/L        6.4141     -13.208 ppb         6.4141  48.56%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -19.8     -0.1519 µg/L       0.68925     -0.1519 ppb        0.68925 453.67%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -8.6     -0.1121 µg/L       0.05359     -0.1121 ppb        0.05359  47.80%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 12
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 11/7/2013 13:53:41
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21360.3	21360.3	99.4	%			13:54:12
1	Al 396.153Radial†	3411.3	3527.8	6304.8	µg/L	6304.8	ppb	13:54:32
1	Ca 317.933Radial†	7472.4	7449.9	5044.6	µg/L	5044.6	ppb	13:54:32
1	Fe 238.204 Radial†	1526.6	1505.2	5090.4	µg/L	5090.4	ppb	13:54:32
1	K 766.490 Radial†	4751.2	4099.5	5359.6	µg/L	5359.6	ppb	13:54:12
1	Mg 279.077 IEC†	743.7	744.9	5230.3	µg/L	5230.3	ppb	13:54:32
1	Na 589.592 Radial†	14992.0	15123.1	14560	µg/L	14560	ppb	13:54:12
1	Sr 421.552†	43729.9	43952.4	517.86	µg/L	517.86	ppb	13:54:12
1	Sc 361.383	1220003.6	1220003.6	101.95	%			13:55:34
1	Y 371.029	707400.7	707400.7	100.12	%			13:55:34
1	Ag 328.068†	74723.9	72649.2	515.04	µg/L	515.04	ppb	13:55:36
1	As 188.979†	217.3	215.9	498.71	µg/L	498.71	ppb	13:55:56
1	B 249.677†	40772.8	39738.0	476.83	µg/L	476.83	ppb	13:55:36
1	Ba 233.527†	35141.6	34560.2	505.55	µg/L	505.55	ppb	13:55:36
1	Be 313.107†	1131822.1	1116973.6	493.90	µg/L	493.90	ppb	13:55:34
1	Cd 226.502†	31357.3	30847.6	498.06	µg/L	498.06	ppb	13:55:36
1	Co 228.616†	16634.0	16421.6	501.38	µg/L	501.38	ppb	13:55:36
1	Cr 267.716†	27128.2	26488.3	502.22	µg/L	502.22	ppb	13:55:36
1	Cu 324.752†	77807.3	72297.4	509.86	µg/L	509.86	ppb	13:55:36
1	Mn 257.610†	169813.0	166368.5	506.50	µg/L	506.50	ppb	13:55:36
1	Mo 202.031†	4268.3	4196.1	505.30	µg/L	505.30	ppb	13:55:56
1	Ni 231.604†	16600.3	16320.7	502.50	µg/L	502.50	ppb	13:55:36
1	P 214.914†	2415.5	2437.4	2479.4	µg/L	2479.4	ppb	13:55:56
1	Pb 220.353†	2364.1	2210.4	503.22	µg/L	503.22	ppb	13:55:56
1	S 181.975 Axial†	322.0	291.1	997.32	µg/L	997.32	ppb	13:55:56
1	Sb 206.836†	812.5	790.5	503.49	µg/L	503.49	ppb	13:55:56
1	Se 196.026†	370.6	346.7	492	µg/L	492	ppb	13:55:56
1	SiO2†	30214.8	27744.7	5246.4	µg/L	5246.4	ppb	13:55:36
1	Si 251.611†	83355.3	81407.0	2441.3	µg/L	2441.3	ppb	13:55:36
1	Sn 189.927†	1268.1	1240.0	501.96	µg/L	501.96	ppb	13:55:56
1	Ti 334.940†	266679.7	260060.7	502.38	µg/L	502.38	ppb	13:55:36
1	Tl 190.801†	348.4	357.6	490.22	µg/L	490.22	ppb	13:55:56
1	U 367.007†	1991.5	1633.3	481.44	µg/L	481.44	ppb	13:55:36
1	V 292.402†	70773.7	69075.0	510.84	µg/L	510.84	ppb	13:55:36
1	Zn 213.857†	39063.5	37792.0	497.75	µg/L	497.75	ppb	13:55:36
2	Sc RADIAL	21368.5	21368.5	99.4	%			13:54:34
2	Al 396.153Radial†	3402.6	3517.8	6286.8	µg/L	6286.8	ppb	13:54:54
2	Ca 317.933Radial†	7480.6	7455.2	5048.2	µg/L	5048.2	ppb	13:54:54
2	Fe 238.204 Radial†	1533.1	1511.0	5110.3	µg/L	5110.3	ppb	13:54:54
2	K 766.490 Radial†	4833.4	4180.4	5465.2	µg/L	5465.2	ppb	13:54:34
2	Mg 279.077 IEC†	744.8	745.7	5235.7	µg/L	5235.7	ppb	13:54:54
2	Na 589.592 Radial†	15025.8	15151.4	14588	µg/L	14588	ppb	13:54:34
2	Sr 421.552†	43872.1	44078.4	519.34	µg/L	519.34	ppb	13:54:34
2	Sc 361.383	1205336.7	1205336.7	100.72	%			13:55:58
2	Y 371.029	699495.8	699495.8	98.998	%			13:55:58
2	Ag 328.068†	74318.9	73138.9	518.50	µg/L	518.50	ppb	13:56:00
2	As 188.979†	210.1	211.3	488.26	µg/L	488.26	ppb	13:56:20
2	B 249.677†	40520.1	39973.8	479.67	µg/L	479.67	ppb	13:56:00
2	Ba 233.527†	34784.6	34625.1	506.50	µg/L	506.50	ppb	13:56:00
2	Be 313.107†	1115714.1	1114490.3	492.80	µg/L	492.80	ppb	13:55:58
2	Cd 226.502†	31020.4	30887.4	498.70	µg/L	498.70	ppb	13:56:00
2	Co 228.616†	16535.3	16522.1	504.45	µg/L	504.45	ppb	13:56:00
2	Cr 267.716†	26930.7	26616.1	504.64	µg/L	504.64	ppb	13:56:00
2	Cu 324.752†	77192.7	72615.9	512.11	µg/L	512.11	ppb	13:56:00
2	Mn 257.610†	168483.5	167075.3	508.65	µg/L	508.65	ppb	13:56:00
2	Mo 202.031†	4249.7	4228.6	509.21	µg/L	509.21	ppb	13:56:20
2	Ni 231.604†	16559.9	16478.7	507.37	µg/L	507.37	ppb	13:56:00
2	P 214.914†	2418.8	2469.6	2512.2	µg/L	2512.2	ppb	13:56:20
2	Pb 220.353†	2363.3	2237.9	509.45	µg/L	509.45	ppb	13:56:20

2	S 181.975 Axial†	319.1	292.1	1000.5 µg/L	1000.5 ppb		13:56:20
2	Sb 206.836†	814.7	802.4	511.06 µg/L	511.06 ppb		13:56:20
2	Se 196.026†	373.1	353.6	502 µg/L	502 ppb		13:56:20
2	SiO2†	29902.6	27795.4	5256.0 µg/L	5256.0 ppb		13:56:00
2	Si 251.611†	82647.1	81698.9	2450.1 µg/L	2450.1 ppb		13:56:00
2	Sn 189.927†	1273.3	1260.2	510.15 µg/L	510.15 ppb		13:56:20
2	Ti 334.940†	264895.1	261471.8	505.11 µg/L	505.11 ppb		13:56:00
2	Tl 190.801†	341.1	354.5	485.94 µg/L	485.94 ppb		13:56:20
2	U 367.007†	2000.4	1665.9	491.51 µg/L	491.51 ppb		13:56:00
2	V 292.402†	70159.6	69310.1	512.62 µg/L	512.62 ppb		13:56:00
2	Zn 213.857†	38753.8	37950.8	499.83 µg/L	499.83 ppb		13:56:00
3	Sc RADIAL	21263.9	21263.9	99.0 %			13:54:56
3	Al 396.153Radial†	3410.5	3542.6	6331.1 µg/L	6331.1 ppb		13:55:16
3	Ca 317.933Radial†	7467.6	7479.1	5064.4 µg/L	5064.4 ppb		13:55:16
3	Fe 238.204 Radial†	1534.2	1519.8	5140.6 µg/L	5140.6 ppb		13:55:16
3	K 766.490 Radial†	4713.2	4082.8	5337.4 µg/L	5337.4 ppb		13:54:56
3	Mg 279.077 IEC†	742.7	747.3	5247.0 µg/L	5247.0 ppb		13:55:16
3	Na 589.592 Radial†	14862.7	15060.9	14501 µg/L	14501 ppb		13:54:56
3	Sr 421.552†	43962.4	44386.9	522.98 µg/L	522.98 ppb		13:54:56
3	Sc 361.383	1224428.9	1224428.9	102.32 %			13:56:23
3	Y 371.029	710276.3	710276.3	100.52 %			13:56:23
3	Ag 328.068†	72975.1	70675.1	501.07 µg/L	501.07 ppb		13:56:25
3	As 188.979†	217.8	215.6	498.02 µg/L	498.02 ppb		13:56:45
3	B 249.677†	39591.2	38438.7	460.36 µg/L	460.36 ppb		13:56:25
3	Ba 233.527†	33860.0	33183.0	485.41 µg/L	485.41 ppb		13:56:25
3	Be 313.107†	1136466.1	1117500.0	494.13 µg/L	494.13 ppb		13:56:23
3	Cd 226.502†	30209.7	29614.9	478.12 µg/L	478.12 ppb		13:56:25
3	Co 228.616†	16118.6	15858.9	484.21 µg/L	484.21 ppb		13:56:25
3	Cr 267.716†	26288.6	25571.6	484.87 µg/L	484.87 ppb		13:56:25
3	Cu 324.752†	75577.0	69841.8	492.55 µg/L	492.55 ppb		13:56:25
3	Mn 257.610†	164599.3	160670.9	489.15 µg/L	489.15 ppb		13:56:25
3	Mo 202.031†	4294.2	4206.3	506.53 µg/L	506.53 ppb		13:56:45
3	Ni 231.604†	16128.7	15800.9	486.50 µg/L	486.50 ppb		13:56:25
3	P 214.914†	2408.8	2422.3	2464.0 µg/L	2464.0 ppb		13:56:45
3	Pb 220.353†	2347.7	2186.0	497.72 µg/L	497.72 ppb		13:56:45
3	S 181.975 Axial†	320.5	288.5	988.48 µg/L	988.48 ppb		13:56:45
3	Sb 206.836†	814.5	789.5	503.03 µg/L	503.03 ppb		13:56:45
3	Se 196.026†	376.1	350.7	498 µg/L	498 ppb		13:56:45
3	SiO2†	29213.8	26659.3	5041.2 µg/L	5041.2 ppb		13:56:25
3	Si 251.611†	80872.1	78684.6	2359.5 µg/L	2359.5 ppb		13:56:25
3	Sn 189.927†	1273.3	1240.5	502.17 µg/L	502.17 ppb		13:56:45
3	Ti 334.940†	259173.2	251778.8	486.41 µg/L	486.41 ppb		13:56:25
3	Tl 190.801†	351.0	358.9	492.22 µg/L	492.22 ppb		13:56:45
3	U 367.007†	1817.0	1455.6	425.71 µg/L	425.71 ppb		13:56:25
3	V 292.402†	68607.2	66706.7	493.57 µg/L	493.57 ppb		13:56:25
3	Zn 213.857†	37747.3	36367.2	478.94 µg/L	478.94 ppb		13:56:25

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1216589.7	101.66	%	0.835				0.82%
Sc RADIAL	21330.9	99.3	%	0.27				0.27%
Y 371.029	705724.2	99.880	%	0.7901				0.79%
Ag 328.068†	72154.4	511.54	µg/L	9.225	511.54	ppb	9.225	1.80%
QC value within limits for Ag 328.068 Recovery = 102.31%								
Al 396.153Radial†	3529.4	6307.6	µg/L	22.29	6307.6	ppb	22.29	0.35%
QC value greater than the upper limit for Al 396.153Radial Recovery = 126.15%								
As 188.979†	214.2	495.00	µg/L	5.841	495.00	ppb	5.841	1.18%
QC value within limits for As 188.979 Recovery = 99.00%								
B 249.677†	39383.5	472.28	µg/L	10.427	472.28	ppb	10.427	2.21%
QC value within limits for B 249.677 Recovery = 94.46%								
Ba 233.527†	34122.8	499.15	µg/L	11.912	499.15	ppb	11.912	2.39%
QC value within limits for Ba 233.527 Recovery = 99.83%								
Be 313.107†	1116321.3	493.61	µg/L	0.711	493.61	ppb	0.711	0.14%
QC value within limits for Be 313.107 Recovery = 98.72%								
Ca 317.933Radial†	7461.4	5052.4	µg/L	10.54	5052.4	ppb	10.54	0.21%
QC value within limits for Ca 317.933Radial Recovery = 101.05%								
Cd 226.502†	30450.0	491.63	µg/L	11.699	491.63	ppb	11.699	2.38%
QC value within limits for Cd 226.502 Recovery = 98.33%								
Co 228.616†	16267.5	496.68	µg/L	10.906	496.68	ppb	10.906	2.20%

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   QC value within limits for Co 228.616  Recovery = 99.34%
Cr 267.716†            26225.3      497.24 µg/L        10.783      497.24 ppb         10.783   2.17%
   QC value within limits for Cr 267.716  Recovery = 99.45%
Cu 324.752†            71585.0      504.84 µg/L        10.703      504.84 ppb         10.703   2.12%
   QC value within limits for Cu 324.752  Recovery = 100.97%
Fe 238.204 Radial†      1512.0      5113.7 µg/L         25.29      5113.7 ppb          25.29   0.49%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.27%
K 766.490 Radial†       4120.9      5387.4 µg/L         68.28      5387.4 ppb          68.28   1.27%
   QC value within limits for K 766.490 Radial  Recovery = 107.75%
Mg 279.077 IEC†          746.0      5237.6 µg/L          8.51      5237.6 ppb           8.51   0.16%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.75%
Mn 257.610†           164704.9      501.43 µg/L        10.692      501.43 ppb         10.692   2.13%
   QC value within limits for Mn 257.610  Recovery = 100.29%
Mo 202.031†             4210.3      507.01 µg/L         2.002      507.01 ppb          2.002   0.39%
   QC value within limits for Mo 202.031  Recovery = 101.40%
Na 589.592 Radial†     15111.8       14550 µg/L          44.6       14550 ppb           44.6   0.31%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 145.50%
Ni 231.604†            16200.1      498.79 µg/L        10.920      498.79 ppb         10.920   2.19%
   QC value within limits for Ni 231.604  Recovery = 99.76%
P 214.914†              2443.1      2485.2 µg/L         24.63      2485.2 ppb          24.63   0.99%
   QC value within limits for P 214.914  Recovery = 99.41%
Pb 220.353†             2211.4      503.46 µg/L         5.870      503.46 ppb          5.870   1.17%
   QC value within limits for Pb 220.353  Recovery = 100.69%
S 181.975 Axial†         290.6      995.44 µg/L         6.233      995.44 ppb          6.233   0.63%
   QC value within limits for S 181.975 Axial  Recovery = 99.54%
Sb 206.836†              794.1      505.86 µg/L         4.513      505.86 ppb          4.513   0.89%
   QC value within limits for Sb 206.836  Recovery = 101.17%
Se 196.026†              350.3         497 µg/L           5.0         497 ppb            5.0   1.00%
   QC value within limits for Se 196.026  Recovery = 99.49%
SiO2†                  27399.8      5181.2 µg/L        121.35      5181.2 ppb         121.35   2.34%
   QC value within limits for SiO2  Recovery = 96.89%
Si 251.611†            80596.8      2417.0 µg/L         49.97      2417.0 ppb          49.97   2.07%
   QC value within limits for Si 251.611  Recovery = 96.68%
Sn 189.927†             1246.9      504.76 µg/L         4.670      504.76 ppb          4.670   0.93%
   QC value within limits for Sn 189.927  Recovery = 100.95%
Sr 421.552†            44139.2      520.06 µg/L         2.634      520.06 ppb          2.634   0.51%
   QC value within limits for Sr 421.552  Recovery = 104.01%
Ti 334.940†           257770.4      497.97 µg/L        10.098      497.97 ppb         10.098   2.03%
   QC value within limits for Ti 334.940  Recovery = 99.59%
Tl 190.801†              357.0      489.46 µg/L         3.210      489.46 ppb          3.210   0.66%
   QC value within limits for Tl 190.801  Recovery = 97.89%
U 367.007†              1584.9      466.22 µg/L        35.444      466.22 ppb         35.444   7.60%
   QC value within limits for U 367.007  Recovery = 93.24%
V 292.402†             68363.9      505.68 µg/L        10.524      505.68 ppb         10.524   2.08%
   QC value within limits for V 292.402  Recovery = 101.14%
Zn 213.857†            37370.0      492.17 µg/L        11.507      492.17 ppb         11.507   2.34%
   QC value within limits for Zn 213.857  Recovery = 98.43%
QC Failed.  Continue with analysis.
```

Sequence No.: 13 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 13:56:53**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21356.4	21356.4	99.4	%			13:57:40
1	Al 396.153Radial†	-73.6	22.2	39.717	µg/L	39.717	ppb	13:57:40
1	Ca 317.933Radial†	81.4	15.0	10.129	µg/L	10.129	ppb	13:58:00
1	Fe 238.204 Radial†	24.9	-5.5	-18.516	µg/L	-18.516	ppb	13:58:00
1	K 766.490 Radial†	580.0	-96.5	-126.00	µg/L	-126.00	ppb	13:57:40
1	Mg 279.077 IEC†	2.8	-0.4	-2.8600	µg/L	-2.8600	ppb	13:58:00
1	Na 589.592 Radial†	-34.3	7.4	7.1248	µg/L	7.1248	ppb	13:57:40
1	Sr 421.552†	45.0	7.3	0.0855	µg/L	0.0855	ppb	13:57:40
1	Sc 361.383	1199084.8	1199084.8	100.20	%			13:59:38
1	Y 371.029	708336.1	708336.1	100.25	%			13:59:38
1	Ag 328.068†	579.9	-67.5	-0.4801	µg/L	-0.4801	ppb	13:59:40
1	As 188.979†	-1.2	1.5	3.5195	µg/L	3.5195	ppb	14:00:00
1	B 249.677†	306.5	50.7	0.7555	µg/L	0.7555	ppb	14:00:00
1	Ba 233.527†	-102.1	-11.6	-0.1683	µg/L	-0.1683	ppb	14:00:00
1	Be 313.107†	-6860.6	-57.2	-0.0253	µg/L	-0.0253	ppb	13:59:40
1	Cd 226.502†	-106.0	-16.0	-0.2556	µg/L	-0.2556	ppb	14:00:00
1	Co 228.616†	-95.1	10.7	0.3280	µg/L	0.3280	ppb	14:00:00
1	Cr 267.716†	137.6	16.1	0.3022	µg/L	0.3022	ppb	14:00:00
1	Cu 324.752†	3928.4	-101.8	-0.7173	µg/L	-0.7173	ppb	13:59:40
1	Mn 257.610†	211.6	13.1	0.0395	µg/L	0.0395	ppb	14:00:00
1	Mo 202.031†	-14.8	-5.4	-0.6459	µg/L	-0.6459	ppb	14:00:00
1	Ni 231.604†	-41.4	-3.6	-0.1107	µg/L	-0.1107	ppb	14:00:00
1	P 214.914†	-64.3	4.0	4.1493	µg/L	4.1493	ppb	14:00:00
1	Pb 220.353†	94.5	-14.2	-3.2184	µg/L	-3.2184	ppb	14:00:00
1	S 181.975 Axial†	27.6	2.8	9.5584	µg/L	9.5584	ppb	14:00:00
1	Sb 206.836†	3.2	-3.3	-2.1201	µg/L	-2.1201	ppb	14:00:00
1	Se 196.026†	2.4	-14.4	-20.4	µg/L	-20.4	ppb	14:00:00
1	SiO2†	1832.2	-63.9	-12.057	µg/L	-12.057	ppb	14:00:00
1	Si 251.611†	367.4	12.0	0.3688	µg/L	0.3688	ppb	14:00:00
1	Sn 189.927†	2.6	-1.3	-0.5196	µg/L	-0.5196	ppb	14:00:00
1	Ti 334.940†	1188.7	-334.4	-0.6473	µg/L	-0.6473	ppb	13:59:40
1	Tl 190.801†	-14.7	1.2	1.5915	µg/L	1.5915	ppb	14:00:00
1	U 367.007†	329.4	8.5	2.7621	µg/L	2.7621	ppb	13:59:40
1	V 292.402†	345.6	-0.7	-0.0133	µg/L	-0.0133	ppb	13:59:40
1	Zn 213.857†	526.6	0.9	0.0144	µg/L	0.0144	ppb	14:00:00
2	Sc RADIAL	21227.5	21227.5	98.8	%			13:58:20
2	Al 396.153Radial†	-85.0	10.2	18.269	µg/L	18.269	ppb	13:58:20
2	Ca 317.933Radial†	70.2	4.1	2.7536	µg/L	2.7536	ppb	13:58:40
2	Fe 238.204 Radial†	28.8	-1.4	-4.6910	µg/L	-4.6910	ppb	13:58:40
2	K 766.490 Radial†	622.6	-49.8	-65.065	µg/L	-65.065	ppb	13:58:20
2	Mg 279.077 IEC†	1.0	-2.2	-15.506	µg/L	-15.506	ppb	13:58:40
2	Na 589.592 Radial†	-25.9	15.7	15.096	µg/L	15.096	ppb	13:58:20
2	Sr 421.552†	50.5	13.2	0.1549	µg/L	0.1549	ppb	13:58:20
2	Sc 361.383	1184217.9	1184217.9	98.959	%			14:00:02
2	Y 371.029	699277.9	699277.9	98.968	%			14:00:02
2	Ag 328.068†	696.7	57.9	0.4137	µg/L	0.4137	ppb	14:00:04
2	As 188.979†	-6.6	-4.0	-9.0289	µg/L	-9.0289	ppb	14:00:24
2	B 249.677†	340.2	88.5	1.1490	µg/L	1.1490	ppb	14:00:24
2	Ba 233.527†	-103.2	-13.9	-0.2027	µg/L	-0.2027	ppb	14:00:24
2	Be 313.107†	-6812.0	-93.9	-0.0415	µg/L	-0.0415	ppb	14:00:04
2	Cd 226.502†	-95.8	-7.0	-0.1112	µg/L	-0.1112	ppb	14:00:24
2	Co 228.616†	-112.7	-8.3	-0.2535	µg/L	-0.2535	ppb	14:00:24
2	Cr 267.716†	124.0	4.1	0.0809	µg/L	0.0809	ppb	14:00:24
2	Cu 324.752†	3883.1	-98.4	-0.6960	µg/L	-0.6960	ppb	14:00:04
2	Mn 257.610†	209.6	13.8	0.0424	µg/L	0.0424	ppb	14:00:24
2	Mo 202.031†	-5.6	3.8	0.4551	µg/L	0.4551	ppb	14:00:24
2	Ni 231.604†	-7.6	30.1	0.9267	µg/L	0.9267	ppb	14:00:24
2	P 214.914†	-67.1	0.3	0.3401	µg/L	0.3401	ppb	14:00:24
2	Pb 220.353†	117.5	10.3	2.3396	µg/L	2.3396	ppb	14:00:24

2	S 181.975 Axial†	26.1	1.7	5.7680	µg/L	5.7680	ppb	14:00:24
2	Sb 206.836†	4.1	-2.4	-1.5326	µg/L	-1.5326	ppb	14:00:24
2	Se 196.026†	14.6	-2.1	-2.98	µg/L	-2.98	ppb	14:00:24
2	SiO2†	1832.6	-40.6	-7.6578	µg/L	-7.6578	ppb	14:00:24
2	Si 251.611†	369.5	18.7	0.5559	µg/L	0.5559	ppb	14:00:24
2	Sn 189.927†	3.1	-0.8	-0.3366	µg/L	-0.3366	ppb	14:00:24
2	Ti 334.940†	1380.3	-125.9	-0.2407	µg/L	-0.2407	ppb	14:00:04
2	Tl 190.801†	-13.9	1.8	2.5050	µg/L	2.5050	ppb	14:00:24
2	U 367.007†	301.6	-15.4	-4.7816	µg/L	-4.7816	ppb	14:00:04
2	V 292.402†	334.4	-7.8	-0.0541	µg/L	-0.0541	ppb	14:00:04
2	Zn 213.857†	521.6	2.4	0.0278	µg/L	0.0278	ppb	14:00:24
3	Sc RADIAL	21229.6	21229.6	98.8	%			13:59:00
3	Al 396.153Radial†	-81.5	13.7	24.488	µg/L	24.488	ppb	13:59:00
3	Ca 317.933Radial†	72.9	6.8	4.5904	µg/L	4.5904	ppb	13:59:20
3	Fe 238.204 Radial†	29.9	-0.3	-0.9874	µg/L	-0.9874	ppb	13:59:20
3	K 766.490 Radial†	574.9	-98.1	-128.21	µg/L	-128.21	ppb	13:59:00
3	Mg 279.077 IEC†	-1.4	-4.7	-32.812	µg/L	-32.812	ppb	13:59:20
3	Na 589.592 Radial†	-13.4	28.3	27.274	µg/L	27.274	ppb	13:59:00
3	Sr 421.552†	43.2	5.8	0.0678	µg/L	0.0678	ppb	13:59:00
3	Sc 361.383	1194871.7	1194871.7	99.849	%			14:00:26
3	Y 371.029	705257.0	705257.0	99.814	%			14:00:26
3	Ag 328.068†	423.7	-221.9	-1.5719	µg/L	-1.5719	ppb	14:00:28
3	As 188.979†	-4.5	-1.8	-4.1479	µg/L	-4.1479	ppb	14:00:48
3	B 249.677†	266.4	11.5	0.2001	µg/L	0.2001	ppb	14:00:48
3	Ba 233.527†	-97.6	-7.4	-0.1071	µg/L	-0.1071	ppb	14:00:48
3	Be 313.107†	-6885.8	-106.5	-0.0471	µg/L	-0.0471	ppb	14:00:28
3	Cd 226.502†	-84.1	5.6	0.0917	µg/L	0.0917	ppb	14:00:48
3	Co 228.616†	-103.7	1.8	0.0532	µg/L	0.0532	ppb	14:00:48
3	Cr 267.716†	142.6	21.6	0.4085	µg/L	0.4085	ppb	14:00:48
3	Cu 324.752†	3931.8	-84.6	-0.5941	µg/L	-0.5941	ppb	14:00:28
3	Mn 257.610†	195.3	-2.4	-0.0062	µg/L	-0.0062	ppb	14:00:48
3	Mo 202.031†	-13.0	-3.6	-0.4300	µg/L	-0.4300	ppb	14:00:48
3	Ni 231.604†	-16.4	21.3	0.6549	µg/L	0.6549	ppb	14:00:48
3	P 214.914†	-57.7	10.3	10.582	µg/L	10.582	ppb	14:00:48
3	Pb 220.353†	91.4	-16.9	-3.8479	µg/L	-3.8479	ppb	14:00:48
3	S 181.975 Axial†	30.7	6.1	20.839	µg/L	20.839	ppb	14:00:48
3	Sb 206.836†	5.4	-1.1	-0.6883	µg/L	-0.6883	ppb	14:00:48
3	Se 196.026†	6.8	-10.0	-14.2	µg/L	-14.2	ppb	14:00:48
3	SiO2†	1813.3	-76.4	-14.405	µg/L	-14.405	ppb	14:00:48
3	Si 251.611†	369.7	15.6	0.4759	µg/L	0.4759	ppb	14:00:48
3	Sn 189.927†	2.0	-1.9	-0.7570	µg/L	-0.7570	ppb	14:00:48
3	Ti 334.940†	1474.6	-43.9	-0.0861	µg/L	-0.0861	ppb	14:00:28
3	Tl 190.801†	-14.5	1.3	1.7652	µg/L	1.7652	ppb	14:00:48
3	U 367.007†	329.2	9.5	2.9879	µg/L	2.9879	ppb	14:00:28
3	V 292.402†	357.3	12.2	0.0864	µg/L	0.0864	ppb	14:00:28
3	Zn 213.857†	519.5	-4.3	-0.0601	µg/L	-0.0601	ppb	14:00:48

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1192724.8	99.670	%	0.6403				0.64%
Sc RADIAL	21271.2	99.0	%	0.34				0.35%
Y 371.029	704290.4	99.677	%	0.6519				0.65%
Ag 328.068†	-77.1	-0.5461	µg/L	0.99444	-0.5461	ppb	0.99444	182.11%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	15.4	27.491	µg/L	11.0350	27.491	ppb	11.0350	40.14%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.4	-3.2191	µg/L	6.32555	-3.2191	ppb	6.32555	196.50%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	50.3	0.7015	µg/L	0.47677	0.7015	ppb	0.47677	67.96%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-10.9	-0.1594	µg/L	0.04846	-0.1594	ppb	0.04846	30.41%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-85.9	-0.0380	µg/L	0.01134	-0.0380	ppb	0.01134	29.87%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.6	5.8243	µg/L	3.83930	5.8243	ppb	3.83930	65.92%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-5.8	-0.0917	µg/L	0.17446	-0.0917	ppb	0.17446	190.26%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	1.4	0.0426	µg/L	0.29089	0.0426	ppb	0.29089	683.46%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                13.9      0.2639 µg/L       0.16714      0.2639 ppb        0.16714  63.34%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -95.0     -0.6691 µg/L       0.06587     -0.6691 ppb        0.06587   9.84%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -2.4     -8.0648 µg/L       9.23849     -8.0648 ppb        9.23849 114.55%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -81.5     -106.43 µg/L        35.836     -106.43 ppb         35.836  33.67%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -2.4     -17.059 µg/L       15.0362     -17.059 ppb        15.0362  88.14%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                 8.1      0.0253 µg/L       0.02725      0.0253 ppb        0.02725 107.84%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -1.7     -0.2069 µg/L       0.58340     -0.2069 ppb        0.58340 281.91%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         17.1      16.498 µg/L       10.1473      16.498 ppb        10.1473  61.51%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                15.9      0.4903 µg/L       0.53795      0.4903 ppb        0.53795 109.72%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  4.9      5.0237 µg/L       5.17640      5.0237 ppb        5.17640 103.04%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -6.9     -1.5756 µg/L       3.40520     -1.5756 ppb        3.40520 216.12%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            3.5      12.055 µg/L        7.8396      12.055 ppb         7.8396  65.03%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -2.3     -1.4470 µg/L       0.71972     -1.4470 ppb        0.71972  49.74%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -8.8       -12.5 µg/L          8.83       -12.5 ppb           8.83  70.51%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                     -60.3     -11.373 µg/L        3.4251     -11.373 ppb         3.4251  30.12%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                15.5      0.4669 µg/L       0.09386      0.4669 ppb        0.09386  20.11%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -1.3     -0.5377 µg/L       0.21080     -0.5377 ppb        0.21080  39.20%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                 8.7      0.1028 µg/L       0.04604      0.1028 ppb        0.04604  44.80%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -168.1     -0.3247 µg/L       0.28987     -0.3247 ppb        0.28987  89.28%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.4      1.9539 µg/L       0.48508      1.9539 ppb        0.48508  24.83%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                  0.9      0.3228 µg/L       4.42198      0.3228 ppb        4.42198 >999.9%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                  1.3      0.0064 µg/L       0.07230      0.0064 ppb        0.07230 >999.9%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                -0.3     -0.0060 µg/L       0.04733     -0.0060 ppb        0.04733 794.21%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 9 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 14:31:16**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21988.2	21988.2	102	%			14:31:49
1	Al 396.153Radial†	3402.5	3421.3	6114.1	µg/L	6114.1	ppb	14:32:09
1	Ca 317.933Radial†	7386.8	7151.6	4842.6	µg/L	4842.6	ppb	14:32:09
1	Fe 238.204 Radial†	1517.0	1451.9	4909.8	µg/L	4909.8	ppb	14:32:09
1	K 766.490 Radial†	4799.6	4010.3	5243.2	µg/L	5243.2	ppb	14:31:49
1	Mg 279.077 IEC†	733.4	713.5	5009.3	µg/L	5009.3	ppb	14:32:09
1	Na 589.592 Radial†	15286.8	14980.6	14423	µg/L	14423	ppb	14:31:49
1	Sr 421.552†	44041.9	43001.0	506.65	µg/L	506.65	ppb	14:31:49
1	Sc 361.383	1199023.7	1199023.7	100.20	%			14:33:10
1	Y 371.029	694528.0	694528.0	98.295	%			14:33:10
1	Ag 328.068†	74115.1	73324.0	519.83	µg/L	519.83	ppb	14:33:12
1	As 188.979†	219.7	222.0	512.68	µg/L	512.68	ppb	14:33:33
1	B 249.677†	40550.5	40216.0	483.54	µg/L	483.54	ppb	14:33:12
1	Ba 233.527†	34382.1	34405.3	503.29	µg/L	503.29	ppb	14:33:12
1	Be 313.107†	1118154.4	1122758.1	496.45	µg/L	496.45	ppb	14:33:10
1	Cd 226.502†	30813.0	30842.6	498.00	µg/L	498.00	ppb	14:33:12
1	Co 228.616†	16437.3	16510.8	504.10	µg/L	504.10	ppb	14:33:12
1	Cr 267.716†	26805.6	26632.0	504.94	µg/L	504.94	ppb	14:33:12
1	Cu 324.752†	76845.7	72673.1	512.48	µg/L	512.48	ppb	14:33:12
1	Mn 257.610†	167193.9	166669.0	507.42	µg/L	507.42	ppb	14:33:12
1	Mo 202.031†	4224.3	4225.4	508.82	µg/L	508.82	ppb	14:33:33
1	Ni 231.604†	16390.9	16396.6	504.84	µg/L	504.84	ppb	14:33:12
1	P 214.914†	2431.1	2494.5	2537.9	µg/L	2537.9	ppb	14:33:33
1	Pb 220.353†	2319.1	2206.2	502.26	µg/L	502.26	ppb	14:33:33
1	S 181.975 Axial†	326.3	300.9	1031.2	µg/L	1031.2	ppb	14:33:33
1	Sb 206.836†	810.5	802.4	511.07	µg/L	511.07	ppb	14:33:33
1	Se 196.026†	369.7	352.1	500	µg/L	500	ppb	14:33:33
1	SiO2†	30037.3	28086.1	5310.9	µg/L	5310.9	ppb	14:33:12
1	Si 251.611†	83087.6	82570.5	2476.3	µg/L	2476.3	ppb	14:33:12
1	Sn 189.927†	1250.6	1244.3	503.68	µg/L	503.68	ppb	14:33:33
1	Ti 334.940†	263802.7	261766.3	505.67	µg/L	505.67	ppb	14:33:12
1	Tl 190.801†	344.9	360.0	493.58	µg/L	493.58	ppb	14:33:33
1	U 367.007†	1952.3	1628.3	480.84	µg/L	480.84	ppb	14:33:12
1	V 292.402†	69712.7	69230.7	512.00	µg/L	512.00	ppb	14:33:12
1	Zn 213.857†	38572.4	37972.3	500.15	µg/L	500.15	ppb	14:33:12
2	Sc RADIAL	20959.3	20959.3	97.5	%			14:32:11
2	Al 396.153Radial†	3387.3	3568.9	6378.2	µg/L	6378.2	ppb	14:32:31
2	Ca 317.933Radial†	7387.8	7507.0	5083.3	µg/L	5083.3	ppb	14:32:31
2	Fe 238.204 Radial†	1513.7	1521.3	5145.7	µg/L	5145.7	ppb	14:32:31
2	K 766.490 Radial†	4724.7	4163.7	5443.0	µg/L	5443.0	ppb	14:32:11
2	Mg 279.077 IEC†	730.4	745.6	5234.7	µg/L	5234.7	ppb	14:32:31
2	Na 589.592 Radial†	14978.3	15397.7	14825	µg/L	14825	ppb	14:32:11
2	Sr 421.552†	43352.7	44407.4	523.22	µg/L	523.22	ppb	14:32:11
2	Sc 361.383	1213874.4	1213874.4	101.44	%			14:33:35
2	Y 371.029	702970.7	702970.7	99.490	%			14:33:35
2	Ag 328.068†	72436.5	70764.2	501.69	µg/L	501.69	ppb	14:33:37
2	As 188.979†	211.5	211.2	487.90	µg/L	487.90	ppb	14:33:57
2	B 249.677†	39374.2	38561.3	461.81	µg/L	461.81	ppb	14:33:37
2	Ba 233.527†	33561.1	33176.1	485.31	µg/L	485.31	ppb	14:33:37
2	Be 313.107†	1119221.4	1110157.0	490.88	µg/L	490.88	ppb	14:33:35
2	Cd 226.502†	29950.3	29615.9	478.14	µg/L	478.14	ppb	14:33:37
2	Co 228.616†	15886.6	15767.2	481.41	µg/L	481.41	ppb	14:33:37
2	Cr 267.716†	25945.6	25456.8	482.68	µg/L	482.68	ppb	14:33:37
2	Cu 324.752†	75058.2	69972.6	493.48	µg/L	493.48	ppb	14:33:37
2	Mn 257.610†	162875.9	160370.6	488.24	µg/L	488.24	ppb	14:33:37
2	Mo 202.031†	4223.2	4172.8	502.50	µg/L	502.50	ppb	14:33:57
2	Ni 231.604†	15947.2	15759.0	485.21	µg/L	485.21	ppb	14:33:37
2	P 214.914†	2444.8	2478.3	2521.3	µg/L	2521.3	ppb	14:33:57
2	Pb 220.353†	2330.3	2188.9	498.34	µg/L	498.34	ppb	14:33:57

2	S 181.975 Axial†	320.6	291.3	997.97 µg/L	997.97 ppb	14:33:57
2	Sb 206.836†	813.2	795.2	506.64 µg/L	506.64 ppb	14:33:57
2	Se 196.026†	370.8	348.7	495 µg/L	495 ppb	14:33:57
2	SiO2†	29389.3	27080.6	5120.7 µg/L	5120.7 ppb	14:33:37
2	Si 251.611†	80932.7	79431.6	2382.0 µg/L	2382.0 ppb	14:33:37
2	Sn 189.927†	1261.1	1239.3	501.68 µg/L	501.68 ppb	14:33:57
2	Ti 334.940†	257177.3	252013.6	486.86 µg/L	486.86 ppb	14:33:37
2	Tl 190.801†	349.4	360.3	494.22 µg/L	494.22 ppb	14:33:57
2	U 367.007†	1856.7	1510.2	442.77 µg/L	442.77 ppb	14:33:37
2	V 292.402†	67957.3	66649.0	493.10 µg/L	493.10 ppb	14:33:37
2	Zn 213.857†	37480.4	36424.8	479.71 µg/L	479.71 ppb	14:33:37
3	Sc RADIAL	21046.8	21046.8	97.9 %		14:32:33
3	Al 396.153Radial†	3369.0	3535.8	6318.9 µg/L	6318.9 ppb	14:32:53
3	Ca 317.933Radial†	7395.1	7483.0	5067.0 µg/L	5067.0 ppb	14:32:53
3	Fe 238.204 Radial†	1515.3	1516.5	5129.0 µg/L	5129.0 ppb	14:32:53
3	K 766.490 Radial†	4784.1	4204.3	5496.3 µg/L	5496.3 ppb	14:32:33
3	Mg 279.077 IEC†	739.9	752.2	5280.9 µg/L	5280.9 ppb	14:32:53
3	Na 589.592 Radial†	15068.3	15425.7	14852 µg/L	14852 ppb	14:32:33
3	Sr 421.552†	43708.6	44585.9	525.32 µg/L	525.32 ppb	14:32:33
3	Sc 361.383	1199028.2	1199028.2	100.20 %		14:33:59
3	Y 371.029	694597.8	694597.8	98.305 %		14:33:59
3	Ag 328.068†	73436.2	72646.2	515.01 µg/L	515.01 ppb	14:34:01
3	As 188.979†	213.8	216.1	499.30 µg/L	499.30 ppb	14:34:21
3	B 249.677†	40211.6	39877.6	478.36 µg/L	478.36 ppb	14:34:01
3	Ba 233.527†	34222.7	34246.1	500.96 µg/L	500.96 ppb	14:34:01
3	Be 313.107†	1120573.2	1125168.0	497.52 µg/L	497.52 ppb	14:33:59
3	Cd 226.502†	30529.8	30559.8	493.40 µg/L	493.40 ppb	14:34:01
3	Co 228.616†	16240.9	16314.7	498.12 µg/L	498.12 ppb	14:34:01
3	Cr 267.716†	26437.1	26264.1	497.97 µg/L	497.97 ppb	14:34:01
3	Cu 324.752†	76650.5	72478.0	511.13 µg/L	511.13 ppb	14:34:01
3	Mn 257.610†	165938.2	165415.1	503.59 µg/L	503.59 ppb	14:34:01
3	Mo 202.031†	4238.0	4239.1	510.48 µg/L	510.48 ppb	14:34:21
3	Ni 231.604†	16255.2	16261.1	500.67 µg/L	500.67 ppb	14:34:01
3	P 214.914†	2463.6	2526.9	2570.8 µg/L	2570.8 ppb	14:34:21
3	Pb 220.353†	2347.1	2234.1	508.59 µg/L	508.59 ppb	14:34:21
3	S 181.975 Axial†	331.9	306.6	1050.4 µg/L	1050.4 ppb	14:34:21
3	Sb 206.836†	814.6	806.5	513.78 µg/L	513.78 ppb	14:34:21
3	Se 196.026†	370.3	352.8	501 µg/L	501 ppb	14:34:21
3	SiO2†	29740.6	27789.9	5254.9 µg/L	5254.9 ppb	14:34:01
3	Si 251.611†	82626.6	82110.1	2462.4 µg/L	2462.4 ppb	14:34:01
3	Sn 189.927†	1273.8	1267.3	513.03 µg/L	513.03 ppb	14:34:21
3	Ti 334.940†	261647.7	259614.4	501.52 µg/L	501.52 ppb	14:34:01
3	Tl 190.801†	344.0	359.1	492.43 µg/L	492.43 ppb	14:34:21
3	U 367.007†	1980.4	1656.3	488.46 µg/L	488.46 ppb	14:34:01
3	V 292.402†	69171.3	68690.1	508.11 µg/L	508.11 ppb	14:34:01
3	Zn 213.857†	38242.8	37643.3	495.78 µg/L	495.78 ppb	14:34:01

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1203975.4	100.61	%	0.716				0.71%
Sc RADIAL	21331.4	99.3	%	2.65				2.67%
Y 371.029	697365.5	98.697	%	0.6870				0.70%
Ag 328.068†	72244.8	512.17	µg/L	9.396	512.17	ppb	9.396	1.83%
QC value within limits for Ag 328.068 Recovery = 102.43%								
Al 396.153Radial†	3508.6	6270.4	µg/L	138.59	6270.4	ppb	138.59	2.21%
QC value greater than the upper limit for Al 396.153Radial Recovery = 125.41%								
As 188.979†	216.4	499.96	µg/L	12.407	499.96	ppb	12.407	2.48%
QC value within limits for As 188.979 Recovery = 99.99%								
B 249.677†	39551.6	474.57	µg/L	11.346	474.57	ppb	11.346	2.39%
QC value within limits for B 249.677 Recovery = 94.91%								
Ba 233.527†	33942.5	496.52	µg/L	9.781	496.52	ppb	9.781	1.97%
QC value within limits for Ba 233.527 Recovery = 99.30%								
Be 313.107†	1119361.0	494.95	µg/L	3.565	494.95	ppb	3.565	0.72%
QC value within limits for Be 313.107 Recovery = 98.99%								
Ca 317.933Radial†	7380.5	4997.6	µg/L	134.48	4997.6	ppb	134.48	2.69%
QC value within limits for Ca 317.933Radial Recovery = 99.95%								
Cd 226.502†	30339.5	489.85	µg/L	10.398	489.85	ppb	10.398	2.12%
QC value within limits for Cd 226.502 Recovery = 97.97%								
Co 228.616†	16197.6	494.54	µg/L	11.763	494.54	ppb	11.763	2.38%

```
   QC value within limits for Co 228.616  Recovery = 98.91%
Cr 267.716†            26117.6      495.20 µg/L        11.386      495.20 ppb         11.386   2.30%
   QC value within limits for Cr 267.716  Recovery = 99.04%
Cu 324.752†            71707.9      505.70 µg/L        10.603      505.70 ppb         10.603   2.10%
   QC value within limits for Cu 324.752  Recovery = 101.14%
Fe 238.204 Radial†      1496.6      5061.5 µg/L        131.65      5061.5 ppb         131.65   2.60%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.23%
K 766.490 Radial†       4126.1      5394.2 µg/L        133.46      5394.2 ppb         133.46   2.47%
   QC value within limits for K 766.490 Radial  Recovery = 107.88%
Mg 279.077 IEC†          737.1      5175.0 µg/L        145.31      5175.0 ppb         145.31   2.81%
   QC value within limits for Mg 279.077 IEC  Recovery = 103.50%
Mn 257.610†           164151.6      499.75 µg/L        10.152      499.75 ppb         10.152   2.03%
   QC value within limits for Mn 257.610  Recovery = 99.95%
Mo 202.031†             4212.5      507.27 µg/L         4.209      507.27 ppb          4.209   0.83%
   QC value within limits for Mo 202.031  Recovery = 101.45%
Na 589.592 Radial†     15268.0       14700 µg/L         240.0       14700 ppb          240.0   1.63%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 147.00%
Ni 231.604†            16138.9      496.91 µg/L        10.342      496.91 ppb         10.342   2.08%
   QC value within limits for Ni 231.604  Recovery = 99.38%
P 214.914†              2499.9      2543.4 µg/L         25.19      2543.4 ppb          25.19   0.99%
   QC value within limits for P 214.914  Recovery = 101.73%
Pb 220.353†             2209.7      503.06 µg/L         5.172      503.06 ppb          5.172   1.03%
   QC value within limits for Pb 220.353  Recovery = 100.61%
S 181.975 Axial†         299.6      1026.5 µg/L         26.52      1026.5 ppb          26.52   2.58%
   QC value within limits for S 181.975 Axial  Recovery = 102.65%
Sb 206.836†              801.4      510.50 µg/L         3.602      510.50 ppb          3.602   0.71%
   QC value within limits for Sb 206.836  Recovery = 102.10%
Se 196.026†              351.2         499 µg/L           3.1         499 ppb            3.1   0.62%
   QC value within limits for Se 196.026  Recovery = 99.73%
SiO2†                  27652.2      5228.8 µg/L         97.75      5228.8 ppb          97.75   1.87%
   QC value within limits for SiO2  Recovery = 97.78%
Si 251.611†            81370.7      2440.2 µg/L         50.90      2440.2 ppb          50.90   2.09%
   QC value within limits for Si 251.611  Recovery = 97.61%
Sn 189.927†             1250.3      506.13 µg/L         6.060      506.13 ppb          6.060   1.20%
   QC value within limits for Sn 189.927  Recovery = 101.23%
Sr 421.552†            43998.1      518.40 µg/L        10.228      518.40 ppb         10.228   1.97%
   QC value within limits for Sr 421.552  Recovery = 103.68%
Ti 334.940†           257798.1      498.02 µg/L         9.882      498.02 ppb          9.882   1.98%
   QC value within limits for Ti 334.940  Recovery = 99.60%
Tl 190.801†              359.8      493.41 µg/L         0.909      493.41 ppb          0.909   0.18%
   QC value within limits for Tl 190.801  Recovery = 98.68%
U 367.007†              1598.3      470.69 µg/L        24.478      470.69 ppb         24.478   5.20%
   QC value within limits for U 367.007  Recovery = 94.14%
V 292.402†             68190.0      504.40 µg/L         9.976      504.40 ppb          9.976   1.98%
   QC value within limits for V 292.402  Recovery = 100.88%
Zn 213.857†            37346.8      491.88 µg/L        10.764      491.88 ppb         10.764   2.19%
   QC value within limits for Zn 213.857  Recovery = 98.38%
QC Failed.  Continue with analysis.
```

Sequence No.: 10 **Autosampler Location: 109**
Sample ID: PQL **Date Collected: 11/7/2013 14:34:30**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21266.2	21266.2	99.0	%			14:35:20
1	Al 396.153Radial†	60.3	157.1	280.96	µg/L	280.96	ppb	14:35:20
1	Ca 317.933Radial†	390.0	327.0	221.42	µg/L	221.42	ppb	14:35:40
1	Fe 238.204 Radial†	58.8	28.9	97.764	µg/L	97.764	ppb	14:35:40
1	K 766.490 Radial†	747.0	74.7	97.605	µg/L	97.605	ppb	14:35:20
1	Mg 279.077 IEC†	54.4	51.8	363.46	µg/L	363.46	ppb	14:35:40
1	Na 589.592 Radial†	429.7	476.0	458.28	µg/L	458.28	ppb	14:35:20
1	Sr 421.552†	486.9	454.0	5.3472	µg/L	5.3472	ppb	14:35:20
1	Sc 361.383	1199104.3	1199104.3	100.20	%			14:37:18
1	Y 371.029	710213.9	710213.9	100.52	%			14:37:18
1	Ag 328.068†	1271.8	623.1	4.3765	µg/L	4.3765	ppb	14:37:20
1	As 188.979†	12.0	14.7	33.496	µg/L	33.496	ppb	14:37:40
1	B 249.677†	4243.2	3979.4	49.319	µg/L	49.319	ppb	14:37:20
1	Ba 233.527†	256.5	346.3	5.0636	µg/L	5.0636	ppb	14:37:40
1	Be 313.107†	5569.1	12347.6	5.4598	µg/L	5.4598	ppb	14:37:20
1	Cd 226.502†	246.8	336.2	5.4219	µg/L	5.4219	ppb	14:37:40
1	Co 228.616†	68.1	173.6	5.3068	µg/L	5.3068	ppb	14:37:40
1	Cr 267.716†	387.6	265.5	5.0028	µg/L	5.0028	ppb	14:37:40
1	Cu 324.752†	5190.6	1157.7	8.1843	µg/L	8.1843	ppb	14:37:20
1	Mn 257.610†	3650.8	3445.4	10.480	µg/L	10.480	ppb	14:37:40
1	Mo 202.031†	74.3	83.6	10.075	µg/L	10.075	ppb	14:37:40
1	Ni 231.604†	135.4	172.9	5.3226	µg/L	5.3226	ppb	14:37:40
1	P 214.914†	118.5	186.4	190.54	µg/L	190.54	ppb	14:37:40
1	Pb 220.353†	157.2	48.5	10.997	µg/L	10.997	ppb	14:37:40
1	S 181.975 Axial†	54.9	30.0	103.09	µg/L	103.09	ppb	14:37:40
1	Sb 206.836†	22.5	15.9	10.161	µg/L	10.161	ppb	14:37:40
1	Se 196.026†	42.5	25.5	36.2	µg/L	36.2	ppb	14:37:40
1	SiO2†	2913.0	1014.7	191.61	µg/L	191.61	ppb	14:37:20
1	Si 251.611†	3678.9	3316.8	99.598	µg/L	99.598	ppb	14:37:20
1	Sn 189.927†	28.1	24.1	9.7847	µg/L	9.7847	ppb	14:37:40
1	Ti 334.940†	3787.5	2259.1	4.3488	µg/L	4.3488	ppb	14:37:20
1	Tl 190.801†	-1.4	14.5	19.961	µg/L	19.961	ppb	14:37:40
1	U 367.007†	477.0	155.9	48.158	µg/L	48.158	ppb	14:37:20
1	V 292.402†	947.7	600.1	4.5426	µg/L	4.5426	ppb	14:37:20
1	Zn 213.857†	1322.4	795.1	10.498	µg/L	10.498	ppb	14:37:40
2	Sc RADIAL	21407.5	21407.5	99.6	%			14:36:00
2	Al 396.153Radial†	67.7	164.2	293.55	µg/L	293.55	ppb	14:36:00
2	Ca 317.933Radial†	394.6	329.1	222.80	µg/L	222.80	ppb	14:36:20
2	Fe 238.204 Radial†	57.0	26.7	90.409	µg/L	90.409	ppb	14:36:20
2	K 766.490 Radial†	735.1	57.9	75.555	µg/L	75.555	ppb	14:36:00
2	Mg 279.077 IEC†	43.5	40.4	283.72	µg/L	283.72	ppb	14:36:20
2	Na 589.592 Radial†	429.9	473.3	455.74	µg/L	455.74	ppb	14:36:00
2	Sr 421.552†	478.0	441.8	5.2043	µg/L	5.2043	ppb	14:36:00
2	Sc 361.383	1209327.9	1209327.9	101.06	%			14:37:42
2	Y 371.029	716793.9	716793.9	101.45	%			14:37:42
2	Ag 328.068†	1453.5	792.1	5.5798	µg/L	5.5798	ppb	14:37:44
2	As 188.979†	10.9	13.5	30.742	µg/L	30.742	ppb	14:38:04
2	B 249.677†	4174.0	3875.1	48.053	µg/L	48.053	ppb	14:37:44
2	Ba 233.527†	262.0	349.7	5.1127	µg/L	5.1127	ppb	14:38:04
2	Be 313.107†	5598.0	12329.2	5.4516	µg/L	5.4516	ppb	14:37:44
2	Cd 226.502†	250.0	337.2	5.4397	µg/L	5.4397	ppb	14:38:04
2	Co 228.616†	72.3	177.1	5.4133	µg/L	5.4133	ppb	14:38:04
2	Cr 267.716†	392.3	267.0	5.0360	µg/L	5.0360	ppb	14:38:04
2	Cu 324.752†	5170.4	1094.0	7.7305	µg/L	7.7305	ppb	14:37:44
2	Mn 257.610†	3636.5	3400.4	10.345	µg/L	10.345	ppb	14:38:04
2	Mo 202.031†	77.4	86.0	10.365	µg/L	10.365	ppb	14:38:04
2	Ni 231.604†	136.9	173.3	5.3342	µg/L	5.3342	ppb	14:38:04
2	P 214.914†	103.7	170.7	174.47	µg/L	174.47	ppb	14:38:04
2	Pb 220.353†	158.1	48.0	10.912	µg/L	10.912	ppb	14:38:04

2	S 181.975 Axial†	51.3	26.1	89.566	µg/L	89.566 ppb	14:38:04
2	Sb 206.836†	21.7	14.9	9.5492	µg/L	9.5492 ppb	14:38:04
2	Se 196.026†	39.4	22.1	31.3	µg/L	31.3 ppb	14:38:04
2	SiO2†	2981.4	1057.8	199.75	µg/L	199.75 ppb	14:37:44
2	Si 251.611†	3699.9	3306.5	99.283	µg/L	99.283 ppb	14:37:44
2	Sn 189.927†	32.0	27.8	11.262	µg/L	11.262 ppb	14:38:04
2	Ti 334.940†	4020.3	2457.6	4.7372	µg/L	4.7372 ppb	14:37:44
2	Tl 190.801†	0.3	16.1	22.240	µg/L	22.240 ppb	14:38:04
2	U 367.007†	453.7	128.7	39.717	µg/L	39.717 ppb	14:37:44
2	V 292.402†	956.1	600.5	4.5424	µg/L	4.5424 ppb	14:37:44
2	Zn 213.857†	1314.0	775.6	10.242	µg/L	10.242 ppb	14:38:04
3	Sc RADIAL	21153.3	21153.3	98.4	%		14:36:40
3	Al 396.153Radial†	70.2	167.5	299.49	µg/L	299.49 ppb	14:36:40
3	Ca 317.933Radial†	395.2	334.4	226.43	µg/L	226.43 ppb	14:37:00
3	Fe 238.204 Radial†	58.6	29.0	98.084	µg/L	98.084 ppb	14:37:00
3	K 766.490 Radial†	771.9	104.1	135.96	µg/L	135.96 ppb	14:36:40
3	Mg 279.077 IEC†	52.4	50.0	351.36	µg/L	351.36 ppb	14:37:00
3	Na 589.592 Radial†	436.3	485.1	467.02	µg/L	467.02 ppb	14:36:40
3	Sr 421.552†	502.1	472.1	5.5610	µg/L	5.5610 ppb	14:36:40
3	Sc 361.383	1197613.4	1197613.4	100.08	%		14:38:06
3	Y 371.029	709985.1	709985.1	100.48	%		14:38:06
3	Ag 328.068†	1344.7	697.5	4.9173	µg/L	4.9173 ppb	14:38:08
3	As 188.979†	7.6	10.3	23.460	µg/L	23.460 ppb	14:38:28
3	B 249.677†	4161.7	3903.2	48.350	µg/L	48.350 ppb	14:38:08
3	Ba 233.527†	265.6	355.8	5.2036	µg/L	5.2036 ppb	14:38:28
3	Be 313.107†	5706.2	12491.5	5.5234	µg/L	5.5234 ppb	14:38:08
3	Cd 226.502†	232.7	322.3	5.1986	µg/L	5.1986 ppb	14:38:28
3	Co 228.616†	58.7	164.2	5.0200	µg/L	5.0200 ppb	14:38:28
3	Cr 267.716†	388.9	267.3	5.0470	µg/L	5.0470 ppb	14:38:28
3	Cu 324.752†	5120.4	1094.0	7.7294	µg/L	7.7294 ppb	14:38:08
3	Mn 257.610†	3670.0	3469.1	10.552	µg/L	10.552 ppb	14:38:28
3	Mo 202.031†	68.3	77.6	9.3574	µg/L	9.3574 ppb	14:38:28
3	Ni 231.604†	148.4	186.0	5.7278	µg/L	5.7278 ppb	14:38:28
3	P 214.914†	88.5	156.6	160.02	µg/L	160.02 ppb	14:38:28
3	Pb 220.353†	160.0	51.5	11.692	µg/L	11.692 ppb	14:38:28
3	S 181.975 Axial†	53.0	28.2	96.958	µg/L	96.958 ppb	14:38:28
3	Sb 206.836†	25.8	19.2	12.286	µg/L	12.286 ppb	14:38:28
3	Se 196.026†	40.1	23.2	32.9	µg/L	32.9 ppb	14:38:28
3	SiO2†	2863.6	968.9	182.97	µg/L	182.97 ppb	14:38:08
3	Si 251.611†	3677.9	3320.4	99.715	µg/L	99.715 ppb	14:38:08
3	Sn 189.927†	28.6	24.7	10.014	µg/L	10.014 ppb	14:38:28
3	Ti 334.940†	3807.9	2284.2	4.4053	µg/L	4.4053 ppb	14:38:08
3	Tl 190.801†	5.4	21.2	29.280	µg/L	29.280 ppb	14:38:28
3	U 367.007†	428.6	108.1	33.234	µg/L	33.234 ppb	14:38:08
3	V 292.402†	1030.4	683.9	5.1356	µg/L	5.1356 ppb	14:38:08
3	Zn 213.857†	1310.9	785.2	10.364	µg/L	10.364 ppb	14:38:28

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1202015.2	100.45	%	0.533				0.53%
Sc RADIAL	21275.7	99.0	%	0.59				0.60%
Y 371.029	712331.0	100.81	%	0.547				0.54%
Ag 328.068†	704.2	4.9579	µg/L	0.60267	4.9579	ppb	0.60267	12.16%
QC value within limits for Ag 328.068 Recovery = 99.16%								
Al 396.153Radial†	162.9	291.34	µg/L	9.465	291.34	ppb	9.465	3.25%
QC value greater than the upper limit for Al 396.153Radial Recovery = 145.67%								
As 188.979†	12.8	29.232	µg/L	5.1854	29.232	ppb	5.1854	17.74%
QC value within limits for As 188.979 Recovery = 97.44%								
B 249.677†	3919.2	48.574	µg/L	0.6619	48.574	ppb	0.6619	1.36%
QC value within limits for B 249.677 Recovery = 97.15%								
Ba 233.527†	350.6	5.1266	µg/L	0.07104	5.1266	ppb	0.07104	1.39%
QC value within limits for Ba 233.527 Recovery = 102.53%								
Be 313.107†	12389.4	5.4783	µg/L	0.03930	5.4783	ppb	0.03930	0.72%
QC value within limits for Be 313.107 Recovery = 109.57%								
Ca 317.933Radial†	330.2	223.55	µg/L	2.589	223.55	ppb	2.589	1.16%
QC value within limits for Ca 317.933Radial Recovery = 111.77%								
Cd 226.502†	331.9	5.3534	µg/L	0.13438	5.3534	ppb	0.13438	2.51%
QC value within limits for Cd 226.502 Recovery = 107.07%								
Co 228.616†	171.6	5.2467	µg/L	0.20345	5.2467	ppb	0.20345	3.88%

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   QC value within limits for Co 228.616  Recovery = 104.93%
Cr 267.716†              266.6      5.0286 µg/L       0.02298      5.0286 ppb        0.02298   0.46%
   QC value within limits for Cr 267.716  Recovery = 100.57%
Cu 324.752†             1115.2      7.8814 µg/L       0.26232      7.8814 ppb        0.26232   3.33%
   QC value within limits for Cu 324.752  Recovery = 78.81%
Fe 238.204 Radial†        28.2      95.419 µg/L        4.3417      95.419 ppb         4.3417   4.55%
   QC value within limits for Fe 238.204 Radial  Recovery = 95.42%
K 766.490 Radial†         78.9      103.04 µg/L        30.568      103.04 ppb         30.568  29.67%
   QC value less than the lower limit for K 766.490 Radial  Recovery = 68.69%
Mg 279.077 IEC†           47.4      332.85 µg/L        42.972      332.85 ppb         42.972  12.91%
   QC value within limits for Mg 279.077 IEC  Recovery = 110.95%
Mn 257.610†             3438.3      10.459 µg/L        0.1050      10.459 ppb         0.1050   1.00%
   QC value within limits for Mn 257.610  Recovery = 104.59%
Mo 202.031†               82.4      9.9324 µg/L       0.51859      9.9324 ppb        0.51859   5.22%
   QC value within limits for Mo 202.031  Recovery = 99.32%
Na 589.592 Radial†       478.1      460.35 µg/L         5.918      460.35 ppb          5.918   1.29%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 153.45%
Ni 231.604†              177.4      5.4615 µg/L       0.23063      5.4615 ppb        0.23063   4.22%
   QC value within limits for Ni 231.604  Recovery = 109.23%
P 214.914†               171.3      175.01 µg/L        15.264      175.01 ppb         15.264   8.72%
   QC value within limits for P 214.914  Recovery = 116.67%
Pb 220.353†               49.3      11.201 µg/L        0.4279      11.201 ppb         0.4279   3.82%
   QC value within limits for Pb 220.353  Recovery = 112.01%
S 181.975 Axial†          28.1      96.536 µg/L        6.7697      96.536 ppb         6.7697   7.01%
   QC value within limits for S 181.975 Axial  Recovery = 96.54%
Sb 206.836†               16.7      10.665 µg/L        1.4363      10.665 ppb         1.4363  13.47%
   QC value within limits for Sb 206.836  Recovery = 106.65%
Se 196.026†               23.6        33.5 µg/L          2.48        33.5 ppb           2.48   7.42%
   QC value within limits for Se 196.026  Recovery = 111.63%
SiO2†                   1013.8      191.44 µg/L         8.394      191.44 ppb          8.394   4.38%
   QC value within limits for SiO2  Recovery = 89.88%
Si 251.611†             3314.6      99.532 µg/L        0.2234      99.532 ppb         0.2234   0.22%
   QC value within limits for Si 251.611  Recovery = 99.53%
Sn 189.927†               25.5      10.354 µg/L        0.7950      10.354 ppb         0.7950   7.68%
   QC value within limits for Sn 189.927  Recovery = 103.54%
Sr 421.552†              456.0      5.3708 µg/L       0.17955      5.3708 ppb        0.17955   3.34%
   QC value within limits for Sr 421.552  Recovery = 107.42%
Ti 334.940†             2333.6      4.4971 µg/L       0.20986      4.4971 ppb        0.20986   4.67%
   QC value within limits for Ti 334.940  Recovery = 89.94%
Tl 190.801†               17.3      23.827 µg/L        4.8580      23.827 ppb         4.8580  20.39%
   QC value within limits for Tl 190.801  Recovery = 119.14%
U 367.007†               130.9      40.370 µg/L        7.4832      40.370 ppb         7.4832  18.54%
   QC value within limits for U 367.007  Recovery = 80.74%
V 292.402†               628.2      4.7402 µg/L       0.34245      4.7402 ppb        0.34245   7.22%
   QC value within limits for V 292.402  Recovery = 94.80%
Zn 213.857†              785.3      10.368 µg/L        0.1279      10.368 ppb         0.1279   1.23%
   QC value within limits for Zn 213.857  Recovery = 103.68%
QC Failed.  Continue with analysis.
```

Sequence No.: 11 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 14:38:36**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21880.8	21880.8	102	%			14:39:26
1	Al 396.153Radial†	-85.4	12.4	22.115	µg/L	22.115	ppb	14:39:26
1	Ca 317.933Radial†	72.6	4.3	2.9226	µg/L	2.9226	ppb	14:39:46
1	Fe 238.204 Radial†	24.4	-6.5	-22.215	µg/L	-22.215	ppb	14:39:46
1	K 766.490 Radial†	605.0	-85.8	-112.13	µg/L	-112.13	ppb	14:39:26
1	Mg 279.077 IEC†	0.8	-2.4	-16.820	µg/L	-16.820	ppb	14:39:46
1	Na 589.592 Radial†	-43.1	-0.4	-0.4247	µg/L	-0.4247	ppb	14:39:26
1	Sr 421.552†	35.6	-3.0	-0.0356	µg/L	-0.0356	ppb	14:39:26
1	Sc 361.383	1267799.5	1267799.5	105.94	%			14:41:24
1	Y 371.029	752819.7	752819.7	106.55	%			14:41:24
1	Ag 328.068†	260.8	-400.0	-2.8074	µg/L	-2.8074	ppb	14:41:26
1	As 188.979†	-4.9	-1.9	-4.3699	µg/L	-4.3699	ppb	14:41:46
1	B 249.677†	273.4	2.8	0.1652	µg/L	0.1652	ppb	14:41:46
1	Ba 233.527†	-105.9	-9.6	-0.1412	µg/L	-0.1412	ppb	14:41:46
1	Be 313.107†	-5868.2	1250.7	0.5530	µg/L	0.5530	ppb	14:41:26
1	Cd 226.502†	-111.3	-15.2	-0.2421	µg/L	-0.2421	ppb	14:41:46
1	Co 228.616†	-103.6	7.8	0.2389	µg/L	0.2389	ppb	14:41:46
1	Cr 267.716†	127.6	-0.8	0.0007	µg/L	0.0007	ppb	14:41:46
1	Cu 324.752†	3635.9	-590.5	-4.1698	µg/L	-4.1698	ppb	14:41:26
1	Mn 257.610†	176.5	-31.4	-0.0956	µg/L	-0.0956	ppb	14:41:46
1	Mo 202.031†	-10.5	-0.5	-0.0555	µg/L	-0.0555	ppb	14:41:46
1	Ni 231.604†	-22.7	16.3	0.5027	µg/L	0.5027	ppb	14:41:46
1	P 214.914†	-59.6	11.9	12.210	µg/L	12.210	ppb	14:41:46
1	Pb 220.353†	110.6	-4.1	-0.8971	µg/L	-0.8971	ppb	14:41:46
1	S 181.975 Axial†	23.4	-2.6	-9.0520	µg/L	-9.0520	ppb	14:41:46
1	Sb 206.836†	3.3	-3.4	-2.1828	µg/L	-2.1828	ppb	14:41:46
1	Se 196.026†	5.6	-11.6	-16.4	µg/L	-16.4	ppb	14:41:46
1	SiO2†	1738.0	-251.9	-47.550	µg/L	-47.550	ppb	14:41:46
1	Si 251.611†	337.8	-35.8	-1.0792	µg/L	-1.0792	ppb	14:41:46
1	Sn 189.927†	6.3	2.0	0.8042	µg/L	0.8042	ppb	14:41:46
1	Ti 334.940†	1459.3	-143.2	-0.2636	µg/L	-0.2636	ppb	14:41:26
1	Tl 190.801†	-9.9	6.4	8.9129	µg/L	8.9129	ppb	14:41:46
1	U 367.007†	253.4	-81.0	-25.217	µg/L	-25.217	ppb	14:41:26
1	V 292.402†	297.8	-64.5	-0.4884	µg/L	-0.4884	ppb	14:41:26
1	Zn 213.857†	518.6	-35.2	-0.4636	µg/L	-0.4636	ppb	14:41:46
2	Sc RADIAL	22321.4	22321.4	104	%			14:40:07
2	Al 396.153Radial†	-88.1	11.4	20.333	µg/L	20.333	ppb	14:40:07
2	Ca 317.933Radial†	69.6	0.0	0.0242	µg/L	0.0242	ppb	14:40:27
2	Fe 238.204 Radial†	24.7	-6.8	-22.928	µg/L	-22.928	ppb	14:40:27
2	K 766.490 Radial†	593.1	-109.0	-142.40	µg/L	-142.40	ppb	14:40:07
2	Mg 279.077 IEC†	-3.3	-6.4	-44.607	µg/L	-44.607	ppb	14:40:27
2	Na 589.592 Radial†	-41.3	2.1	2.0072	µg/L	2.0072	ppb	14:40:07
2	Sr 421.552†	28.5	-10.5	-0.1242	µg/L	-0.1242	ppb	14:40:07
2	Sc 361.383	1294867.7	1294867.7	108.21	%			14:41:48
2	Y 371.029	768907.5	768907.5	108.82	%			14:41:48
2	Ag 328.068†	470.3	-211.6	-1.4773	µg/L	-1.4773	ppb	14:41:50
2	As 188.979†	-7.6	-4.3	-9.7789	µg/L	-9.7789	ppb	14:42:11
2	B 249.677†	250.0	-24.2	-0.1561	µg/L	-0.1561	ppb	14:42:11
2	Ba 233.527†	-86.9	10.1	0.1464	µg/L	0.1464	ppb	14:42:11
2	Be 313.107†	-5667.2	1552.2	0.6864	µg/L	0.6864	ppb	14:41:50
2	Cd 226.502†	-91.2	5.6	0.0933	µg/L	0.0933	ppb	14:42:11
2	Co 228.616†	-100.7	12.6	0.3852	µg/L	0.3852	ppb	14:42:11
2	Cr 267.716†	129.1	-1.9	-0.0221	µg/L	-0.0221	ppb	14:42:11
2	Cu 324.752†	3608.9	-687.1	-4.8484	µg/L	-4.8484	ppb	14:41:50
2	Mn 257.610†	188.3	-24.0	-0.0719	µg/L	-0.0719	ppb	14:42:11
2	Mo 202.031†	-6.0	3.9	0.4669	µg/L	0.4669	ppb	14:42:11
2	Ni 231.604†	-41.4	-0.5	-0.0147	µg/L	-0.0147	ppb	14:42:11
2	P 214.914†	-59.7	13.0	13.377	µg/L	13.377	ppb	14:42:11
2	Pb 220.353†	108.4	-8.3	-1.8540	µg/L	-1.8540	ppb	14:42:11

2	S 181.975 Axial†	27.8	1.0	3.4271	µg/L	3.4271	ppb	14:42:11
2	Sb 206.836†	7.5	0.4	0.2747	µg/L	0.2747	ppb	14:42:11
2	Se 196.026†	16.8	-1.3	-1.85	µg/L	-1.85	ppb	14:42:11
2	SiO2†	1705.3	-316.4	-59.722	µg/L	-59.722	ppb	14:42:11
2	Si 251.611†	334.6	-45.4	-1.3751	µg/L	-1.3751	ppb	14:42:11
2	Sn 189.927†	-1.9	-5.6	-2.2789	µg/L	-2.2789	ppb	14:42:11
2	Ti 334.940†	1387.6	-238.4	-0.4491	µg/L	-0.4491	ppb	14:41:50
2	Tl 190.801†	-15.3	1.7	2.2986	µg/L	2.2986	ppb	14:42:11
2	U 367.007†	270.5	-70.2	-21.842	µg/L	-21.842	ppb	14:41:50
2	V 292.402†	313.9	-55.6	-0.4149	µg/L	-0.4149	ppb	14:41:50
2	Zn 213.857†	514.8	-48.9	-0.6416	µg/L	-0.6416	ppb	14:42:11
3	Sc RADIAL	22233.1	22233.1	103	%			14:40:47
3	Al 396.153Radial†	-81.0	17.9	32.071	µg/L	32.071	ppb	14:40:47
3	Ca 317.933Radial†	72.2	2.8	1.9044	µg/L	1.9044	ppb	14:41:07
3	Fe 238.204 Radial†	30.7	-0.9	-2.9147	µg/L	-2.9147	ppb	14:41:07
3	K 766.490 Radial†	576.4	-122.9	-160.56	µg/L	-160.56	ppb	14:40:47
3	Mg 279.077 IEC†	1.8	-1.5	-10.563	µg/L	-10.563	ppb	14:41:07
3	Na 589.592 Radial†	-40.7	2.5	2.4044	µg/L	2.4044	ppb	14:40:47
3	Sr 421.552†	33.9	-5.2	-0.0617	µg/L	-0.0617	ppb	14:40:47
3	Sc 361.383	1295641.8	1295641.8	108.27	%			14:42:13
3	Y 371.029	769631.5	769631.5	108.92	%			14:42:13
3	Ag 328.068†	408.3	-269.0	-1.8811	µg/L	-1.8811	ppb	14:42:15
3	As 188.979†	-9.1	-5.7	-12.993	µg/L	-12.993	ppb	14:42:35
3	B 249.677†	271.0	-4.9	0.0150	µg/L	0.0150	ppb	14:42:35
3	Ba 233.527†	-95.6	2.1	0.0317	µg/L	0.0317	ppb	14:42:35
3	Be 313.107†	-5707.2	1518.5	0.6714	µg/L	0.6714	ppb	14:42:15
3	Cd 226.502†	-95.8	1.4	0.0236	µg/L	0.0236	ppb	14:42:35
3	Co 228.616†	-109.7	4.3	0.1338	µg/L	0.1338	ppb	14:42:35
3	Cr 267.716†	132.1	0.8	0.0300	µg/L	0.0300	ppb	14:42:35
3	Cu 324.752†	3611.1	-687.1	-4.8459	µg/L	-4.8459	ppb	14:42:15
3	Mn 257.610†	197.5	-15.6	-0.0472	µg/L	-0.0472	ppb	14:42:35
3	Mo 202.031†	-6.9	3.1	0.3693	µg/L	0.3693	ppb	14:42:35
3	Ni 231.604†	-15.1	23.8	0.7317	µg/L	0.7317	ppb	14:42:35
3	P 214.914†	-66.4	6.8	6.9951	µg/L	6.9951	ppb	14:42:35
3	Pb 220.353†	111.8	-5.2	-1.1528	µg/L	-1.1528	ppb	14:42:35
3	S 181.975 Axial†	30.4	3.3	11.499	µg/L	11.499	ppb	14:42:35
3	Sb 206.836†	6.8	-0.2	-0.1516	µg/L	-0.1516	ppb	14:42:35
3	Se 196.026†	16.1	-2.0	-2.83	µg/L	-2.83	ppb	14:42:35
3	SiO2†	1729.7	-294.9	-55.657	µg/L	-55.657	ppb	14:42:35
3	Si 251.611†	354.2	-27.5	-0.8332	µg/L	-0.8332	ppb	14:42:35
3	Sn 189.927†	-4.3	-7.9	-3.2065	µg/L	-3.2065	ppb	14:42:35
3	Ti 334.940†	1296.8	-322.9	-0.6120	µg/L	-0.6120	ppb	14:42:15
3	Tl 190.801†	-21.6	-4.1	-5.7149	µg/L	-5.7149	ppb	14:42:35
3	U 367.007†	266.1	-74.4	-23.242	µg/L	-23.242	ppb	14:42:15
3	V 292.402†	404.8	28.2	0.1965	µg/L	0.1965	ppb	14:42:15
3	Zn 213.857†	496.4	-66.2	-0.8786	µg/L	-0.8786	ppb	14:42:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1286103.0	107.47	%	1.325				1.23%
Sc RADIAL	22145.1	103	%	1.1				1.05%
Y 371.029	763786.2	108.10	%	1.345				1.24%
Ag 328.068†	-293.5	-2.0553	µg/L	0.68194	-2.0553	ppb	0.68194	33.18%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	13.9	24.840	µg/L	6.3259	24.840	ppb	6.3259	25.47%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-4.0	-9.0472	µg/L	4.35780	-9.0472	ppb	4.35780	48.17%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-8.8	0.0080	µg/L	0.16081	0.0080	ppb	0.16081	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	0.9	0.0123	µg/L	0.14478	0.0123	ppb	0.14478	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	1440.5	0.6369	µg/L	0.07306	0.6369	ppb	0.07306	11.47%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.4	1.6171	µg/L	1.47040	1.6171	ppb	1.47040	90.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-2.7	-0.0417	µg/L	0.17701	-0.0417	ppb	0.17701	424.28%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	8.2	0.2526	µg/L	0.12629	0.2526	ppb	0.12629	49.99%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -0.6      0.0029 µg/L       0.02614      0.0029 ppb        0.02614 907.16%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -654.9     -4.6214 µg/L       0.39108     -4.6214 ppb        0.39108   8.46%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -4.7     -16.019 µg/L       11.3545     -16.019 ppb        11.3545  70.88%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -105.9     -138.37 µg/L        24.468     -138.37 ppb         24.468  17.68%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -3.4     -23.997 µg/L       18.1213     -23.997 ppb        18.1213  75.52%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               -23.7     -0.0716 µg/L       0.02422     -0.0716 ppb        0.02422  33.83%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 2.2      0.2603 µg/L       0.27778      0.2603 ppb        0.27778 106.73%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†          1.4      1.3290 µg/L       1.53168      1.3290 ppb        1.53168 115.25%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                13.2      0.4066 µg/L       0.38235      0.4066 ppb        0.38235  94.04%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 10.5      10.861 µg/L        3.3981      10.861 ppb         3.3981  31.29%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -5.8     -1.3013 µg/L       0.49541     -1.3013 ppb        0.49541  38.07%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†            0.6      1.9579 µg/L      10.35381      1.9579 ppb       10.35381 528.82%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -1.1     -0.6866 µg/L       1.31321     -0.6866 ppb        1.31321 191.26%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -5.0       -7.03 µg/L         8.138       -7.03 ppb          8.138 115.75%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -287.7     -54.310 µg/L        6.1973     -54.310 ppb         6.1973  11.41%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               -36.3     -1.0958 µg/L       0.27133     -1.0958 ppb        0.27133  24.76%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -3.9     -1.5604 µg/L       2.09965     -1.5604 ppb        2.09965 134.56%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                -6.3     -0.0738 µg/L       0.04549     -0.0738 ppb        0.04549  61.60%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -234.8     -0.4416 µg/L       0.17433     -0.4416 ppb        0.17433  39.48%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 1.3      1.8322 µg/L       7.32503      1.8322 ppb        7.32503 399.79%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                -75.2     -23.434 µg/L        1.6955     -23.434 ppb         1.6955   7.24%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -30.6     -0.2356 µg/L       0.37599     -0.2356 ppb        0.37599 159.59%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               -50.1     -0.6613 µg/L       0.20822     -0.6613 ppb        0.20822  31.49%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 13 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 14:46:49**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23857.0	23857.0	111	%			14:47:20
1	Al 396.153Radial†	3075.3	2866.1	5122.4	µg/L	5122.4	ppb	14:47:40
1	Ca 317.933Radial†	6484.0	5773.0	3909.1	µg/L	3909.1	ppb	14:47:40
1	Fe 238.204 Radial†	1339.1	1175.6	3976.4	µg/L	3976.4	ppb	14:47:40
1	K 766.490 Radial†	4234.9	3134.3	4097.2	µg/L	4097.2	ppb	14:47:20
1	Mg 279.077 IEC†	653.1	585.0	4107.3	µg/L	4107.3	ppb	14:47:40
1	Na 589.592 Radial†	13495.7	12197.2	11743	µg/L	11743	ppb	14:47:20
1	Sr 421.552†	38747.9	34861.5	410.75	µg/L	410.75	ppb	14:47:20
1	Sc 361.383	1377647.3	1377647.3	115.12	%			14:48:42
1	Y 371.029	802341.6	802341.6	113.55	%			14:48:42
1	Ag 328.068†	63526.0	54535.1	386.63	µg/L	386.63	ppb	14:48:44
1	As 188.979†	171.1	151.4	350.08	µg/L	350.08	ppb	14:49:04
1	B 249.677†	34127.3	29389.1	351.80	µg/L	351.80	ppb	14:48:44
1	Ba 233.527†	29397.8	25626.5	374.87	µg/L	374.87	ppb	14:48:44
1	Be 313.107†	976958.3	855414.7	378.24	µg/L	378.24	ppb	14:48:42
1	Cd 226.502†	25974.3	22652.1	365.71	µg/L	365.71	ppb	14:48:44
1	Co 228.616†	13873.4	12156.6	371.15	µg/L	371.15	ppb	14:49:04
1	Cr 267.716†	22924.5	19791.9	375.28	µg/L	375.28	ppb	14:48:44
1	Cu 324.752†	66189.2	53472.2	377.12	µg/L	377.12	ppb	14:48:44
1	Mn 257.610†	142616.4	123684.2	376.54	µg/L	376.54	ppb	14:48:44
1	Mo 202.031†	3609.2	3144.5	378.68	µg/L	378.68	ppb	14:49:04
1	Ni 231.604†	13947.0	12152.7	374.17	µg/L	374.17	ppb	14:48:44
1	P 214.914†	2090.3	1883.8	1916.5	µg/L	1916.5	ppb	14:49:04
1	Pb 220.353†	1988.9	1619.2	368.69	µg/L	368.69	ppb	14:49:04
1	S 181.975 Axial†	273.8	213.1	730.00	µg/L	730.00	ppb	14:49:04
1	Sb 206.836†	705.5	606.3	386.18	µg/L	386.18	ppb	14:49:04
1	Se 196.026†	321.6	262.5	373	µg/L	373	ppb	14:49:04
1	SiO2†	25653.2	20391.0	3856.0	µg/L	3856.0	ppb	14:48:44
1	Si 251.611†	70318.5	60726.8	1821.2	µg/L	1821.2	ppb	14:48:44
1	Sn 189.927†	1085.5	939.0	380.12	µg/L	380.12	ppb	14:49:04
1	Ti 334.940†	226125.3	194900.8	376.53	µg/L	376.53	ppb	14:48:44
1	Tl 190.801†	272.0	252.0	345.36	µg/L	345.36	ppb	14:49:04
1	U 367.007†	1690.0	1147.9	336.16	µg/L	336.16	ppb	14:48:44
1	V 292.402†	59875.1	51664.3	382.10	µg/L	382.10	ppb	14:48:44
1	Zn 213.857†	32659.3	27844.6	366.69	µg/L	366.69	ppb	14:48:44
2	Sc RADIAL	23989.7	23989.7	112	%			14:47:42
2	Al 396.153Radial†	3074.9	2850.4	5094.5	µg/L	5094.5	ppb	14:48:02
2	Ca 317.933Radial†	6500.1	5755.1	3897.0	µg/L	3897.0	ppb	14:48:02
2	Fe 238.204 Radial†	1335.1	1165.3	3942.2	µg/L	3942.2	ppb	14:48:02
2	K 766.490 Radial†	4355.1	3220.8	4209.8	µg/L	4209.8	ppb	14:47:42
2	Mg 279.077 IEC†	647.4	576.6	4048.6	µg/L	4048.6	ppb	14:48:02
2	Na 589.592 Radial†	13428.2	12069.5	11620	µg/L	11620	ppb	14:47:42
2	Sr 421.552†	38786.1	34702.6	408.88	µg/L	408.88	ppb	14:47:42
2	Sc 361.383	1441921.2	1441921.2	120.49	%			14:49:06
2	Y 371.029	839492.2	839492.2	118.81	%			14:49:06
2	Ag 328.068†	62479.6	51206.9	363.04	µg/L	363.04	ppb	14:49:08
2	As 188.979†	173.8	146.9	339.71	µg/L	339.71	ppb	14:49:28
2	B 249.677†	33942.5	27914.4	333.39	µg/L	333.39	ppb	14:49:08
2	Ba 233.527†	28941.2	24109.3	352.68	µg/L	352.68	ppb	14:49:08
2	Be 313.107†	955324.3	799632.6	353.58	µg/L	353.58	ppb	14:49:06
2	Cd 226.502†	25600.0	21335.8	344.43	µg/L	344.43	ppb	14:49:08
2	Co 228.616†	13799.5	11558.1	352.89	µg/L	352.89	ppb	14:49:28
2	Cr 267.716†	22498.7	18550.9	351.75	µg/L	351.75	ppb	14:49:08
2	Cu 324.752†	65232.5	50115.4	353.47	µg/L	353.47	ppb	14:49:08
2	Mn 257.610†	140763.0	116624.0	355.05	µg/L	355.05	ppb	14:49:08
2	Mo 202.031†	3602.7	2999.4	361.21	µg/L	361.21	ppb	14:49:28
2	Ni 231.604†	13776.0	11470.8	353.17	µg/L	353.17	ppb	14:49:08
2	P 214.914†	2075.9	1791.0	1821.9	µg/L	1821.9	ppb	14:49:28
2	Pb 220.353†	1989.9	1543.0	351.35	µg/L	351.35	ppb	14:49:28

2	S 181.975 Axial†	280.2	207.8	711.80 µg/L	711.80 ppb	14:49:28
2	Sb 206.836†	699.2	573.7	365.50 µg/L	365.50 ppb	14:49:28
2	Se 196.026†	309.3	239.9	341 µg/L	341 ppb	14:49:28
2	SiO2†	25241.2	19055.7	3603.5 µg/L	3603.5 ppb	14:49:08
2	Si 251.611†	69426.8	57264.0	1717.3 µg/L	1717.3 ppb	14:49:08
2	Sn 189.927†	1084.0	895.7	362.63 µg/L	362.63 ppb	14:49:28
2	Ti 334.940†	223208.7	183724.7	354.95 µg/L	354.95 ppb	14:49:08
2	Tl 190.801†	267.8	238.1	326.23 µg/L	326.23 ppb	14:49:28
2	U 367.007†	1661.2	1058.5	308.49 µg/L	308.49 ppb	14:49:08
2	V 292.402†	59050.2	48661.3	359.97 µg/L	359.97 ppb	14:49:08
2	Zn 213.857†	32502.3	26449.7	348.32 µg/L	348.32 ppb	14:49:08
3	Sc RADIAL	24218.5	24218.5	113 %		14:48:04
3	Al 396.153Radial†	3129.9	2873.2	5135.2 µg/L	5135.2 ppb	14:48:24
3	Ca 317.933Radial†	6598.9	5787.8	3919.1 µg/L	3919.1 ppb	14:48:24
3	Fe 238.204 Radial†	1365.5	1181.0	3994.9 µg/L	3994.9 ppb	14:48:24
3	K 766.490 Radial†	4399.9	3223.8	4213.5 µg/L	4213.5 ppb	14:48:04
3	Mg 279.077 IEC†	651.7	575.0	4037.4 µg/L	4037.4 ppb	14:48:24
3	Na 589.592 Radial†	13522.1	12039.1	11591 µg/L	11591 ppb	14:48:04
3	Sr 421.552†	39472.2	34983.2	412.18 µg/L	412.18 ppb	14:48:04
3	Sc 361.383	1476345.6	1476345.6	123.37 %		14:49:31
3	Y 371.029	860331.5	860331.5	121.76 %		14:49:31
3	Ag 328.068†	62407.7	49939.6	354.08 µg/L	354.08 ppb	14:49:33
3	As 188.979†	185.1	152.8	353.02 µg/L	353.02 ppb	14:49:53
3	B 249.677†	33754.0	27104.7	323.12 µg/L	323.12 ppb	14:49:33
3	Ba 233.527†	29064.4	23649.0	345.94 µg/L	345.94 ppb	14:49:33
3	Be 313.107†	936977.4	766274.2	338.83 µg/L	338.83 ppb	14:49:31
3	Cd 226.502†	25661.0	20889.8	337.21 µg/L	337.21 ppb	14:49:33
3	Co 228.616†	14553.0	11901.8	363.41 µg/L	363.41 ppb	14:49:53
3	Cr 267.716†	22599.8	18197.4	345.06 µg/L	345.06 ppb	14:49:33
3	Cu 324.752†	65287.4	48897.5	344.91 µg/L	344.91 ppb	14:49:33
3	Mn 257.610†	140964.3	114063.2	347.25 µg/L	347.25 ppb	14:49:33
3	Mo 202.031†	3778.3	3072.0	369.95 µg/L	369.95 ppb	14:49:53
3	Ni 231.604†	13867.7	11278.5	347.25 µg/L	347.25 ppb	14:49:33
3	P 214.914†	2181.6	1836.5	1868.4 µg/L	1868.4 ppb	14:49:53
3	Pb 220.353†	2087.1	1583.3	360.52 µg/L	360.52 ppb	14:49:53
3	S 181.975 Axial†	288.3	209.0	715.75 µg/L	715.75 ppb	14:49:53
3	Sb 206.836†	725.8	581.8	370.78 µg/L	370.78 ppb	14:49:53
3	Se 196.026†	336.3	255.7	363 µg/L	363 ppb	14:49:53
3	SiO2†	25291.9	18608.4	3518.9 µg/L	3518.9 ppb	14:49:33
3	Si 251.611†	69459.7	55947.2	1677.6 µg/L	1677.6 ppb	14:49:33
3	Sn 189.927†	1135.9	916.8	371.14 µg/L	371.14 ppb	14:49:53
3	Ti 334.940†	223423.8	179579.7	346.95 µg/L	346.95 ppb	14:49:33
3	Tl 190.801†	286.6	248.1	339.98 µg/L	339.98 ppb	14:49:53
3	U 367.007†	1631.0	1001.9	290.49 µg/L	290.49 ppb	14:49:33
3	V 292.402†	59147.0	47597.1	352.32 µg/L	352.32 ppb	14:49:33
3	Zn 213.857†	32443.5	25773.0	339.37 µg/L	339.37 ppb	14:49:33

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1431971.4	119.66	%	4.186				3.50%
Sc RADIAL	24021.7	112	%	0.9				0.76%
Y 371.029	834055.1	118.04	%	4.157				3.52%
Ag 328.068†	51893.9	367.92	µg/L	16.817	367.92	ppb	16.817	4.57%
QC value less than the lower limit for Ag 328.068 Recovery = 73.58%								
Al 396.153Radial†	2863.2	5117.3	µg/L	20.82	5117.3	ppb	20.82	0.41%
QC value within limits for Al 396.153Radial Recovery = 102.35%								
As 188.979†	150.4	347.60	µg/L	6.994	347.60	ppb	6.994	2.01%
QC value less than the lower limit for As 188.979 Recovery = 69.52%								
B 249.677†	28136.1	336.10	µg/L	14.531	336.10	ppb	14.531	4.32%
QC value less than the lower limit for B 249.677 Recovery = 67.22%								
Ba 233.527†	24461.6	357.83	µg/L	15.139	357.83	ppb	15.139	4.23%
QC value less than the lower limit for Ba 233.527 Recovery = 71.57%								
Be 313.107†	807107.2	356.88	µg/L	19.915	356.88	ppb	19.915	5.58%
QC value less than the lower limit for Be 313.107 Recovery = 71.38%								
Ca 317.933Radial†	5772.0	3908.4	µg/L	11.09	3908.4	ppb	11.09	0.28%
QC value less than the lower limit for Ca 317.933Radial Recovery = 78.17%								
Cd 226.502†	21625.9	349.12	µg/L	14.814	349.12	ppb	14.814	4.24%
QC value less than the lower limit for Cd 226.502 Recovery = 69.82%								
Co 228.616†	11872.2	362.48	µg/L	9.169	362.48	ppb	9.169	2.53%

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   QC value less than the lower limit for Co 228.616  Recovery = 72.50%
Cr 267.716†            18846.8      357.37 µg/L        15.869      357.37 ppb         15.869   4.44%
   QC value less than the lower limit for Cr 267.716  Recovery = 71.47%
Cu 324.752†            50828.4      358.50 µg/L        16.684      358.50 ppb         16.684   4.65%
   QC value less than the lower limit for Cu 324.752  Recovery = 71.70%
Fe 238.204 Radial†      1174.0      3971.2 µg/L         26.73      3971.2 ppb          26.73   0.67%
   QC value less than the lower limit for Fe 238.204 Radial  Recovery = 79.42%
K 766.490 Radial†       3193.0      4173.5 µg/L         66.12      4173.5 ppb          66.12   1.58%
   QC value less than the lower limit for K 766.490 Radial  Recovery = 83.47%
Mg 279.077 IEC†          578.9      4064.4 µg/L         37.57      4064.4 ppb          37.57   0.92%
   QC value less than the lower limit for Mg 279.077 IEC  Recovery = 81.29%
Mn 257.610†           118123.8      359.61 µg/L        15.171      359.61 ppb         15.171   4.22%
   QC value less than the lower limit for Mn 257.610  Recovery = 71.92%
Mo 202.031†             3072.0      369.94 µg/L         8.735      369.94 ppb          8.735   2.36%
   QC value less than the lower limit for Mo 202.031  Recovery = 73.99%
Na 589.592 Radial†     12101.9       11652 µg/L          80.8       11652 ppb           80.8   0.69%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 116.52%
Ni 231.604†            11634.0      358.20 µg/L        14.145      358.20 ppb         14.145   3.95%
   QC value less than the lower limit for Ni 231.604  Recovery = 71.64%
P 214.914†              1837.1      1868.9 µg/L         47.32      1868.9 ppb          47.32   2.53%
   QC value less than the lower limit for P 214.914  Recovery = 74.76%
Pb 220.353†             1581.8      360.18 µg/L         8.675      360.18 ppb          8.675   2.41%
   QC value less than the lower limit for Pb 220.353  Recovery = 72.04%
S 181.975 Axial†         210.0      719.18 µg/L         9.574      719.18 ppb          9.574   1.33%
   QC value less than the lower limit for S 181.975 Axial  Recovery = 71.92%
Sb 206.836†              587.3      374.15 µg/L        10.744      374.15 ppb         10.744   2.87%
   QC value less than the lower limit for Sb 206.836  Recovery = 74.83%
Se 196.026†              252.7         359 µg/L          16.4         359 ppb           16.4   4.58%
   QC value less than the lower limit for Se 196.026  Recovery = 71.78%
SiO2†                  19351.7      3659.5 µg/L        175.36      3659.5 ppb         175.36   4.79%
   QC value less than the lower limit for SiO2  Recovery = 68.43%
Si 251.611†            57979.4      1738.7 µg/L         74.14      1738.7 ppb          74.14   4.26%
   QC value less than the lower limit for Si 251.611  Recovery = 69.55%
Sn 189.927†              917.2      371.30 µg/L         8.746      371.30 ppb          8.746   2.36%
   QC value less than the lower limit for Sn 189.927  Recovery = 74.26%
Sr 421.552†            34849.1      410.60 µg/L         1.658      410.60 ppb          1.658   0.40%
   QC value less than the lower limit for Sr 421.552  Recovery = 82.12%
Ti 334.940†           186068.4      359.48 µg/L        15.298      359.48 ppb         15.298   4.26%
   QC value less than the lower limit for Ti 334.940  Recovery = 71.90%
Tl 190.801†              246.1      337.19 µg/L         9.864      337.19 ppb          9.864   2.93%
   QC value less than the lower limit for Tl 190.801  Recovery = 67.44%
U 367.007†              1069.4      311.71 µg/L        23.002      311.71 ppb         23.002   7.38%
   QC value less than the lower limit for U 367.007  Recovery = 62.34%
V 292.402†             49307.6      364.80 µg/L        15.468      364.80 ppb         15.468   4.24%
   QC value less than the lower limit for V 292.402  Recovery = 72.96%
Zn 213.857†            26689.1      351.46 µg/L        13.928      351.46 ppb         13.928   3.96%
   QC value less than the lower limit for Zn 213.857  Recovery = 70.29%
QC Failed.  Continue with analysis.
```

Sequence No.: 14 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 14:50:01**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	23361.2	23361.2	109	%			14:50:48
1	Al 396.153Radial†	-76.0	26.4	47.132	µg/L	47.132	ppb	14:50:48
1	Ca 317.933Radial†	74.1	1.1	0.7761	µg/L	0.7761	ppb	14:51:08
1	Fe 238.204 Radial†	27.7	-5.1	-17.160	µg/L	-17.160	ppb	14:51:08
1	K 766.490 Radial†	554.7	-169.8	-221.78	µg/L	-221.78	ppb	14:50:48
1	Mg 279.077 IEC†	3.0	-0.4	-3.1123	µg/L	-3.1123	ppb	14:51:08
1	Na 589.592 Radial†	-53.1	-6.9	-6.6908	µg/L	-6.6908	ppb	14:50:48
1	Sr 421.552†	51.3	9.2	0.1083	µg/L	0.1083	ppb	14:50:48
1	Sc 361.383	1329290.5	1329290.5	111.08	%			14:52:46
1	Y 371.029	789548.6	789548.6	111.74	%			14:52:46
1	Ag 328.068†	317.1	-360.7	-2.5376	µg/L	-2.5376	ppb	14:52:48
1	As 188.979†	-3.0	-0.0	-0.0421	µg/L	-0.0421	ppb	14:53:08
1	B 249.677†	318.1	31.1	0.5452	µg/L	0.5452	ppb	14:53:08
1	Ba 233.527†	-84.0	14.8	0.2148	µg/L	0.2148	ppb	14:53:08
1	Be 313.107†	-6040.2	1352.1	0.5979	µg/L	0.5979	ppb	14:52:48
1	Cd 226.502†	-92.3	6.8	0.1119	µg/L	0.1119	ppb	14:53:08
1	Co 228.616†	-98.0	17.4	0.5327	µg/L	0.5327	ppb	14:53:08
1	Cr 267.716†	112.6	-19.8	-0.3669	µg/L	-0.3669	ppb	14:53:08
1	Cu 324.752†	3692.4	-698.4	-4.9232	µg/L	-4.9232	ppb	14:52:48
1	Mn 257.610†	179.6	-36.4	-0.1110	µg/L	-0.1110	ppb	14:53:08
1	Mo 202.031†	-9.4	1.0	0.1175	µg/L	0.1175	ppb	14:53:08
1	Ni 231.604†	-47.6	-5.1	-0.1582	µg/L	-0.1582	ppb	14:53:08
1	P 214.914†	-55.7	18.0	18.454	µg/L	18.454	ppb	14:53:08
1	Pb 220.353†	104.0	-14.8	-3.3528	µg/L	-3.3528	ppb	14:53:08
1	S 181.975 Axial†	19.8	-6.9	-23.734	µg/L	-23.734	ppb	14:53:08
1	Sb 206.836†	8.3	0.9	0.5936	µg/L	0.5936	ppb	14:53:08
1	Se 196.026†	21.1	2.2	3.08	µg/L	3.08	ppb	14:53:08
1	SiO2†	1696.5	-365.2	-68.931	µg/L	-68.931	ppb	14:53:08
1	Si 251.611†	337.7	-50.6	-1.5258	µg/L	-1.5258	ppb	14:53:08
1	Sn 189.927†	2.7	-1.5	-0.5923	µg/L	-0.5923	ppb	14:53:08
1	Ti 334.940†	1180.4	-458.0	-0.8771	µg/L	-0.8771	ppb	14:52:48
1	Tl 190.801†	-14.3	2.9	4.0153	µg/L	4.0153	ppb	14:53:08
1	U 367.007†	301.1	-49.1	-15.277	µg/L	-15.277	ppb	14:52:48
1	V 292.402†	350.6	-30.0	-0.2287	µg/L	-0.2287	ppb	14:52:48
1	Zn 213.857†	496.6	-77.6	-1.0227	µg/L	-1.0227	ppb	14:53:08
2	Sc RADIAL	23318.1	23318.1	109	%			14:51:28
2	Al 396.153Radial†	-77.5	24.8	44.401	µg/L	44.401	ppb	14:51:28
2	Ca 317.933Radial†	86.9	13.1	8.8819	µg/L	8.8819	ppb	14:51:48
2	Fe 238.204 Radial†	25.3	-7.2	-24.389	µg/L	-24.389	ppb	14:51:48
2	K 766.490 Radial†	591.1	-135.3	-176.69	µg/L	-176.69	ppb	14:51:28
2	Mg 279.077 IEC†	3.7	0.2	1.2887	µg/L	1.2887	ppb	14:51:48
2	Na 589.592 Radial†	-58.2	-11.8	-11.333	µg/L	-11.333	ppb	14:51:28
2	Sr 421.552†	56.5	14.1	0.1658	µg/L	0.1658	ppb	14:51:28
2	Sc 361.383	1330435.7	1330435.7	111.18	%			14:53:10
2	Y 371.029	789736.4	789736.4	111.77	%			14:53:10
2	Ag 328.068†	373.1	-310.6	-2.1848	µg/L	-2.1848	ppb	14:53:12
2	As 188.979†	-7.2	-3.7	-8.5044	µg/L	-8.5044	ppb	14:53:32
2	B 249.677†	281.7	-1.9	0.1408	µg/L	0.1408	ppb	14:53:32
2	Ba 233.527†	-80.3	18.1	0.2633	µg/L	0.2633	ppb	14:53:32
2	Be 313.107†	-5870.7	1509.2	0.6673	µg/L	0.6673	ppb	14:53:12
2	Cd 226.502†	-101.4	-1.3	-0.0183	µg/L	-0.0183	ppb	14:53:32
2	Co 228.616†	-111.7	5.1	0.1584	µg/L	0.1584	ppb	14:53:32
2	Cr 267.716†	118.1	-15.0	-0.2756	µg/L	-0.2756	ppb	14:53:32
2	Cu 324.752†	3519.2	-857.0	-6.0404	µg/L	-6.0404	ppb	14:53:12
2	Mn 257.610†	172.9	-42.5	-0.1301	µg/L	-0.1301	ppb	14:53:32
2	Mo 202.031†	-14.2	-3.4	-0.4068	µg/L	-0.4068	ppb	14:53:32
2	Ni 231.604†	-32.2	8.8	0.2714	µg/L	0.2714	ppb	14:53:32
2	P 214.914†	-63.8	10.7	11.066	µg/L	11.066	ppb	14:53:32
2	Pb 220.353†	104.9	-14.1	-3.1867	µg/L	-3.1867	ppb	14:53:32

2	S 181.975 Axial†	26.5	-0.9	-3.1839 µg/L	-3.1839 ppb	14:53:32
2	Sb 206.836†	8.5	1.1	0.7027 µg/L	0.7027 ppb	14:53:32
2	Se 196.026†	7.1	-10.5	-14.8 µg/L	-14.8 ppb	14:53:32
2	SiO2†	1734.0	-332.8	-62.819 µg/L	-62.819 ppb	14:53:32
2	Si 251.611†	347.6	-42.0	-1.2591 µg/L	-1.2591 ppb	14:53:32
2	Sn 189.927†	2.1	-2.0	-0.8034 µg/L	-0.8034 ppb	14:53:32
2	Ti 334.940†	1296.8	-354.3	-0.6764 µg/L	-0.6764 ppb	14:53:12
2	Tl 190.801†	-14.6	2.7	3.7523 µg/L	3.7523 ppb	14:53:32
2	U 367.007†	301.9	-48.7	-15.093 µg/L	-15.093 ppb	14:53:12
2	V 292.402†	299.9	-75.9	-0.5701 µg/L	-0.5701 ppb	14:53:12
2	Zn 213.857†	512.5	-63.6	-0.8389 µg/L	-0.8389 ppb	14:53:32
3	Sc RADIAL	23284.5	23284.5	108 %		14:52:08
3	Al 396.153Radial†	-91.1	12.1	21.714 µg/L	21.714 ppb	14:52:08
3	Ca 317.933Radial†	72.3	-0.3	-0.2127 µg/L	-0.2127 ppb	14:52:28
3	Fe 238.204 Radial†	27.5	-5.2	-17.679 µg/L	-17.679 ppb	14:52:28
3	K 766.490 Radial†	564.4	-159.1	-207.82 µg/L	-207.82 ppb	14:52:08
3	Mg 279.077 IEC†	3.3	-0.1	-0.8714 µg/L	-0.8714 ppb	14:52:28
3	Na 589.592 Radial†	-64.0	-17.2	-16.539 µg/L	-16.539 ppb	14:52:08
3	Sr 421.552†	34.4	-6.3	-0.0739 µg/L	-0.0739 ppb	14:52:08
3	Sc 361.383	1331016.6	1331016.6	111.23 %		14:53:34
3	Y 371.029	789362.3	789362.3	111.72 %		14:53:34
3	Ag 328.068†	225.6	-443.3	-3.1199 µg/L	-3.1199 ppb	14:53:36
3	As 188.979†	-3.1	-0.1	-0.1478 µg/L	-0.1478 ppb	14:53:56
3	B 249.677†	270.4	-12.1	0.0015 µg/L	0.0015 ppb	14:53:56
3	Ba 233.527†	-106.9	-5.8	-0.0842 µg/L	-0.0842 ppb	14:53:56
3	Be 313.107†	-6044.8	1355.0	0.5991 µg/L	0.5991 ppb	14:53:36
3	Cd 226.502†	-82.9	15.3	0.2498 µg/L	0.2498 ppb	14:53:56
3	Co 228.616†	-100.6	15.2	0.4654 µg/L	0.4654 ppb	14:53:56
3	Cr 267.716†	119.9	-13.4	-0.2437 µg/L	-0.2437 ppb	14:53:56
3	Cu 324.752†	3692.1	-702.9	-4.9563 µg/L	-4.9563 ppb	14:53:36
3	Mn 257.610†	190.3	-27.0	-0.0825 µg/L	-0.0825 ppb	14:53:56
3	Mo 202.031†	-7.6	2.6	0.3125 µg/L	0.3125 ppb	14:53:56
3	Ni 231.604†	-36.0	5.3	0.1644 µg/L	0.1644 ppb	14:53:56
3	P 214.914†	-54.4	19.2	19.731 µg/L	19.731 ppb	14:53:56
3	Pb 220.353†	100.9	-17.7	-4.0104 µg/L	-4.0104 ppb	14:53:56
3	S 181.975 Axial†	24.9	-2.3	-8.0295 µg/L	-8.0295 ppb	14:53:56
3	Sb 206.836†	6.7	-0.5	-0.3144 µg/L	-0.3144 ppb	14:53:56
3	Se 196.026†	19.3	0.5	0.705 µg/L	0.705 ppb	14:53:56
3	SiO2†	1727.7	-339.2	-64.019 µg/L	-64.019 ppb	14:53:56
3	Si 251.611†	345.4	-44.1	-1.3322 µg/L	-1.3322 ppb	14:53:56
3	Sn 189.927†	-5.1	-8.5	-3.4318 µg/L	-3.4318 ppb	14:53:56
3	Ti 334.940†	1229.1	-415.6	-0.7944 µg/L	-0.7944 ppb	14:53:36
3	Tl 190.801†	-16.3	1.2	1.6625 µg/L	1.6625 ppb	14:53:56
3	U 367.007†	295.4	-54.6	-16.978 µg/L	-16.978 ppb	14:53:36
3	V 292.402†	369.4	-13.6	-0.1075 µg/L	-0.1075 ppb	14:53:36
3	Zn 213.857†	503.7	-71.8	-0.9485 µg/L	-0.9485 ppb	14:53:56

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1330247.6	111.16	%	0.073				0.07%
Sc RADIAL	23321.2	109	%	0.2				0.16%
Y 371.029	789549.1	111.74	%	0.026				0.02%
Ag 328.068†	-371.5	-2.6141	µg/L	0.47226	-2.6141	ppb	0.47226	18.07%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	21.1	37.749	µg/L	13.9534	37.749	ppb	13.9534	36.96%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.3	-2.8981	µg/L	4.85547	-2.8981	ppb	4.85547	167.54%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	5.7	0.2292	µg/L	0.28242	0.2292	ppb	0.28242	123.23%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	9.0	0.1313	µg/L	0.18819	0.1313	ppb	0.18819	143.32%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	1405.4	0.6214	µg/L	0.03974	0.6214	ppb	0.03974	6.39%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	4.6	3.1484	µg/L	4.98986	3.1484	ppb	4.98986	158.49%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	6.9	0.1145	µg/L	0.13409	0.1145	ppb	0.13409	117.13%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	12.6	0.3855	µg/L	0.19951	0.3855	ppb	0.19951	51.75%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -16.1     -0.2954 µg/L       0.06391     -0.2954 ppb        0.06391  21.64%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -752.8     -5.3067 µg/L       0.63568     -5.3067 ppb        0.63568  11.98%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -5.8     -19.742 µg/L        4.0320     -19.742 ppb         4.0320  20.42%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       -154.7     -202.10 µg/L        23.085     -202.10 ppb         23.085  11.42%
   QC value less than the lower limit for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.1     -0.8983 µg/L       2.20064     -0.8983 ppb        2.20064 244.98%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              -35.3     -0.1078 µg/L       0.02394     -0.1078 ppb        0.02394  22.20%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               0.1      0.0077 µg/L       0.37196      0.0077 ppb        0.37196 >999.9%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -12.0     -11.521 µg/L        4.9265     -11.521 ppb         4.9265  42.76%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               3.0      0.0925 µg/L       0.22361      0.0925 ppb        0.22361 241.63%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               16.0      16.417 µg/L        4.6780      16.417 ppb         4.6780  28.50%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -15.6     -3.5166 µg/L       0.43561     -3.5166 ppb        0.43561  12.39%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -3.4     -11.649 µg/L       10.7427     -11.649 ppb        10.7427  92.22%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               0.5      0.3273 µg/L       0.55838      0.3273 ppb        0.55838 170.59%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -2.6       -3.68 µg/L         9.728       -3.68 ppb          9.728 264.33%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -345.7     -65.256 µg/L        3.2388     -65.256 ppb         3.2388   4.96%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              -45.6     -1.3724 µg/L       0.13782     -1.3724 ppb        0.13782  10.04%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -4.0     -1.6092 µg/L       1.58199     -1.6092 ppb        1.58199  98.31%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               5.7      0.0668 µg/L       0.12514      0.0668 ppb        0.12514 187.45%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -409.3     -0.7826 µg/L       0.10089     -0.7826 ppb        0.10089  12.89%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               2.3      3.1433 µg/L       1.28920      3.1433 ppb        1.28920  41.01%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -50.8     -15.783 µg/L        1.0394     -15.783 ppb         1.0394   6.59%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -39.8     -0.3021 µg/L       0.23988     -0.3021 ppb        0.23988  79.41%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              -71.0     -0.9367 µg/L       0.09249     -0.9367 ppb        0.09249   9.87%
   QC value within limits for Zn 213.857  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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Analysis Begun

Start Time: 11/7/2013 15:01:30 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110713.sif
Batch ID:
Results Data Set: 110713
Results Library: C:\pe\optima4\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 15:01:32**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	26641.0	26641.0	124	%			15:02:04
1	Al 396.153Radial†	2703.2	2276.5	4068.7	µg/L	4068.7	ppb	15:02:24
1	Ca 317.933Radial†	5594.4	4445.2	3010.0	µg/L	3010.0	ppb	15:02:24
1	Fe 238.204 Radial†	1157.8	903.3	3055.7	µg/L	3055.7	ppb	15:02:24
1	K 766.490 Radial†	3943.2	2500.4	3268.0	µg/L	3268.0	ppb	15:02:04
1	Mg 279.077 IEC†	554.7	444.2	3118.9	µg/L	3118.9	ppb	15:02:24
1	Na 589.592 Radial†	12228.0	9904.5	9536.0	µg/L	9536.0	ppb	15:02:04
1	Sr 421.552†	34084.1	27452.8	323.46	µg/L	323.46	ppb	15:02:04
1	Sc 361.383	1561664.3	1561664.3	130.50	%			15:03:26
1	Y 371.029	915746.1	915746.1	129.60	%			15:03:26
1	Ag 328.068†	54179.0	40870.4	289.78	µg/L	289.78	ppb	15:03:28
1	As 188.979†	147.3	115.6	267.21	µg/L	267.21	ppb	15:03:48
1	B 249.677†	29101.1	22044.5	263.53	µg/L	263.53	ppb	15:03:28
1	Ba 233.527†	24943.2	19204.0	280.92	µg/L	280.92	ppb	15:03:28
1	Be 313.107†	808334.2	626203.9	276.89	µg/L	276.89	ppb	15:03:26
1	Cd 226.502†	21840.8	16826.1	271.64	µg/L	271.64	ppb	15:03:28
1	Co 228.616†	11764.0	9120.1	278.45	µg/L	278.45	ppb	15:03:28
1	Cr 267.716†	19492.5	14815.6	280.94	µg/L	280.94	ppb	15:03:28
1	Cu 324.752†	57185.6	39798.1	280.69	µg/L	280.69	ppb	15:03:28
1	Mn 257.610†	121115.9	92611.2	281.95	µg/L	281.95	ppb	15:03:28
1	Mo 202.031†	3085.2	2373.6	285.84	µg/L	285.84	ppb	15:03:48
1	Ni 231.604†	11766.0	9053.9	278.76	µg/L	278.76	ppb	15:03:28
1	P 214.914†	1737.6	1399.6	1423.8	µg/L	1423.8	ppb	15:03:48
1	Pb 220.353†	1701.8	1195.6	272.28	µg/L	272.28	ppb	15:03:48
1	S 181.975 Axial†	231.4	152.6	522.51	µg/L	522.51	ppb	15:03:48
1	Sb 206.836†	591.9	447.0	284.76	µg/L	284.76	ppb	15:03:48
1	Se 196.026†	282.2	199.4	283	µg/L	283	ppb	15:03:48
1	SiO2†	21999.2	14965.2	2830.1	µg/L	2830.1	ppb	15:03:28
1	Si 251.611†	60171.9	45754.2	1372.1	µg/L	1372.1	ppb	15:03:28
1	Sn 189.927†	911.6	694.6	281.21	µg/L	281.21	ppb	15:03:48
1	Ti 334.940†	191518.4	145236.9	280.60	µg/L	280.60	ppb	15:03:26
1	Tl 190.801†	243.4	202.4	277.46	µg/L	277.46	ppb	15:03:48
1	U 367.007†	1442.1	784.9	227.96	µg/L	227.96	ppb	15:03:28
1	V 292.402†	51002.4	38736.7	286.51	µg/L	286.51	ppb	15:03:28
1	Zn 213.857†	27980.1	20916.1	275.45	µg/L	275.45	ppb	15:03:28
2	Sc RADIAL	27869.6	27869.6	130	%			15:02:26
2	Al 396.153Radial†	2616.8	2113.8	3778.0	µg/L	3778.0	ppb	15:02:46
2	Ca 317.933Radial†	5464.3	4146.0	2807.4	µg/L	2807.4	ppb	15:02:46
2	Fe 238.204 Radial†	1137.9	846.8	2864.2	µg/L	2864.2	ppb	15:02:46
2	K 766.490 Radial†	3946.3	2362.6	3087.9	µg/L	3087.9	ppb	15:02:26
2	Mg 279.077 IEC†	536.2	410.2	2880.1	µg/L	2880.1	ppb	15:02:46
2	Na 589.592 Radial†	12327.1	9546.1	9191.0	µg/L	9191.0	ppb	15:02:26
2	Sr 421.552†	34674.8	26696.4	314.55	µg/L	314.55	ppb	15:02:26
2	Sc 361.383	1592289.8	1592289.8	133.06	%			15:03:50
2	Y 371.029	933109.5	933109.5	132.06	%			15:03:50
2	Ag 328.068†	53030.9	39209.1	277.98	µg/L	277.98	ppb	15:03:52
2	As 188.979†	144.2	111.1	256.78	µg/L	256.78	ppb	15:04:12

2	B 249.677†	28406.1	21093.2	252.40	µg/L	252.40	ppb	15:03:52
2	Ba 233.527†	24356.4	18395.4	269.09	µg/L	269.09	ppb	15:03:52
2	Be 313.107†	799599.0	607725.4	268.72	µg/L	268.72	ppb	15:03:50
2	Cd 226.502†	21291.3	16091.2	259.78	µg/L	259.78	ppb	15:03:52
2	Co 228.616†	11513.5	8758.5	267.40	µg/L	267.40	ppb	15:03:52
2	Cr 267.716†	18929.6	14105.2	267.46	µg/L	267.46	ppb	15:03:52
2	Cu 324.752†	55719.3	37853.3	266.97	µg/L	266.97	ppb	15:03:52
2	Mn 257.610†	118160.3	88604.9	269.75	µg/L	269.75	ppb	15:03:52
2	Mo 202.031†	2944.1	2222.0	267.59	µg/L	267.59	ppb	15:04:12
2	Ni 231.604†	11516.2	8692.7	267.64	µg/L	267.64	ppb	15:03:52
2	P 214.914†	1649.4	1307.7	1330.2	µg/L	1330.2	ppb	15:04:12
2	Pb 220.353†	1620.2	1109.2	252.60	µg/L	252.60	ppb	15:04:12
2	S 181.975 Axial†	228.9	147.3	504.53	µg/L	504.53	ppb	15:04:12
2	Sb 206.836†	572.8	424.0	270.06	µg/L	270.06	ppb	15:04:12
2	Se 196.026†	265.5	182.7	259	µg/L	259	ppb	15:04:12
2	SiO2†	21607.1	14346.3	2713.0	µg/L	2713.0	ppb	15:03:52
2	Si 251.611†	58804.2	43839.4	1314.8	µg/L	1314.8	ppb	15:03:52
2	Sn 189.927†	871.8	651.3	263.66	µg/L	263.66	ppb	15:04:12
2	Ti 334.940†	190028.5	141294.5	272.97	µg/L	272.97	ppb	15:03:50
2	Tl 190.801†	229.1	188.0	257.68	µg/L	257.68	ppb	15:04:12
2	U 367.007†	1480.6	792.5	231.42	µg/L	231.42	ppb	15:03:52
2	V 292.402†	49916.9	37169.2	274.83	µg/L	274.83	ppb	15:03:52
2	Zn 213.857†	27415.3	20079.2	264.45	µg/L	264.45	ppb	15:03:52
3	Sc RADIAL	27431.6	27431.6	128	%			15:02:48
3	Al 396.153Radial†	2594.5	2128.6	3804.4	µg/L	3804.4	ppb	15:03:08
3	Ca 317.933Radial†	5431.2	4187.3	2835.4	µg/L	2835.4	ppb	15:03:08
3	Fe 238.204 Radial†	1121.9	848.2	2869.4	µg/L	2869.4	ppb	15:03:08
3	K 766.490 Radial†	3788.3	2287.5	2989.7	µg/L	2989.7	ppb	15:02:48
3	Mg 279.077 IEC†	547.8	425.9	2990.3	µg/L	2990.3	ppb	15:03:08
3	Na 589.592 Radial†	11689.0	9198.0	8855.8	µg/L	8855.8	ppb	15:02:48
3	Sr 421.552†	32904.8	25736.8	303.24	µg/L	303.24	ppb	15:02:48
3	Sc 361.383	1608123.9	1608123.9	134.38	%			15:04:14
3	Y 371.029	942931.2	942931.2	133.45	%			15:04:14
3	Ag 328.068†	51809.5	37907.7	268.75	µg/L	268.75	ppb	15:04:16
3	As 188.979†	139.3	106.4	245.98	µg/L	245.98	ppb	15:04:36
3	B 249.677†	27902.8	20508.5	245.08	µg/L	245.08	ppb	15:04:16
3	Ba 233.527†	23752.8	17765.9	259.89	µg/L	259.89	ppb	15:04:16
3	Be 313.107†	766604.0	577255.3	255.25	µg/L	255.25	ppb	15:04:14
3	Cd 226.502†	20846.7	15602.9	251.88	µg/L	251.88	ppb	15:04:16
3	Co 228.616†	11262.0	8486.2	259.10	µg/L	259.10	ppb	15:04:16
3	Cr 267.716†	18610.1	13727.4	260.29	µg/L	260.29	ppb	15:04:16
3	Cu 324.752†	54910.2	36838.8	259.83	µg/L	259.83	ppb	15:04:16
3	Mn 257.610†	115614.9	85836.3	261.32	µg/L	261.32	ppb	15:04:16
3	Mo 202.031†	2920.5	2182.7	262.86	µg/L	262.86	ppb	15:04:36
3	Ni 231.604†	11165.2	8346.3	256.97	µg/L	256.97	ppb	15:04:16
3	P 214.914†	1652.5	1297.8	1320.2	µg/L	1320.2	ppb	15:04:36
3	Pb 220.353†	1614.8	1093.2	248.94	µg/L	248.94	ppb	15:04:36
3	S 181.975 Axial†	227.1	144.3	493.96	µg/L	493.96	ppb	15:04:36
3	Sb 206.836†	558.0	408.7	260.33	µg/L	260.33	ppb	15:04:36
3	Se 196.026†	251.1	170.0	241	µg/L	241	ppb	15:04:36
3	SiO2†	21120.3	13824.2	2614.3	µg/L	2614.3	ppb	15:04:16
3	Si 251.611†	57293.0	42279.7	1268.0	µg/L	1268.0	ppb	15:04:16
3	Sn 189.927†	876.0	648.0	262.33	µg/L	262.33	ppb	15:04:36
3	Ti 334.940†	182485.1	134274.9	259.41	µg/L	259.41	ppb	15:04:14
3	Tl 190.801†	230.2	187.1	256.58	µg/L	256.58	ppb	15:04:36
3	U 367.007†	1482.4	783.0	228.44	µg/L	228.44	ppb	15:04:16
3	V 292.402†	48644.9	35853.3	265.18	µg/L	265.18	ppb	15:04:16
3	Zn 213.857†	26667.3	19319.7	254.43	µg/L	254.43	ppb	15:04:16

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1587359.4	132.65	%	1.974				1.49%
Sc RADIAL	27314.1	127	%	2.9				2.28%
Y 371.029	930595.6	131.71	%	1.948				1.48%
Ag 328.068†	39329.1	278.84	µg/L	10.539	278.84	ppb	10.539	3.78%
QC value less than the lower limit for Ag 328.068 Recovery = 55.77%								
Al 396.153Radial†	2173.0	3883.7	µg/L	160.78	3883.7	ppb	160.78	4.14%
QC value less than the lower limit for Al 396.153Radial Recovery = 77.67%								
As 188.979†	111.0	256.66	µg/L	10.616	256.66	ppb	10.616	4.14%

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   QC value less than the lower limit for As 188.979  Recovery = 51.33%
B 249.677†            21215.4      253.67 µg/L         9.286      253.67 ppb          9.286   3.66%
   QC value less than the lower limit for B 249.677  Recovery = 50.73%
Ba 233.527†           18455.1      269.97 µg/L        10.545      269.97 ppb         10.545   3.91%
   QC value less than the lower limit for Ba 233.527  Recovery = 53.99%
Be 313.107†          603728.2      266.95 µg/L        10.930      266.95 ppb         10.930   4.09%
   QC value less than the lower limit for Be 313.107  Recovery = 53.39%
Ca 317.933Radial†       4259.5      2884.3 µg/L        109.81      2884.3 ppb         109.81   3.81%
   QC value less than the lower limit for Ca 317.933Radial  Recovery = 57.69%
Cd 226.502†           16173.4      261.10 µg/L         9.942      261.10 ppb          9.942   3.81%
   QC value less than the lower limit for Cd 226.502  Recovery = 52.22%
Co 228.616†            8788.3      268.32 µg/L         9.711      268.32 ppb          9.711   3.62%
   QC value less than the lower limit for Co 228.616  Recovery = 53.66%
Cr 267.716†           14216.1      269.56 µg/L        10.482      269.56 ppb         10.482   3.89%
   QC value less than the lower limit for Cr 267.716  Recovery = 53.91%
Cu 324.752†           38163.4      269.16 µg/L        10.598      269.16 ppb         10.598   3.94%
   QC value less than the lower limit for Cu 324.752  Recovery = 53.83%
Fe 238.204 Radial†       866.1      2929.8 µg/L        109.08      2929.8 ppb         109.08   3.72%
   QC value less than the lower limit for Fe 238.204 Radial  Recovery = 58.60%
K 766.490 Radial†       2383.5      3115.2 µg/L        141.15      3115.2 ppb         141.15   4.53%
   QC value less than the lower limit for K 766.490 Radial  Recovery = 62.30%
Mg 279.077 IEC†          426.8      2996.4 µg/L        119.50      2996.4 ppb         119.50   3.99%
   QC value less than the lower limit for Mg 279.077 IEC  Recovery = 59.93%
Mn 257.610†           89017.5      271.00 µg/L        10.371      271.00 ppb         10.371   3.83%
   QC value less than the lower limit for Mn 257.610  Recovery = 54.20%
Mo 202.031†            2259.4      272.10 µg/L        12.134      272.10 ppb         12.134   4.46%
   QC value less than the lower limit for Mo 202.031  Recovery = 54.42%
Na 589.592 Radial†      9549.5      9194.3 µg/L        340.09      9194.3 ppb         340.09   3.70%
   QC value within limits for Na 589.592 Radial  Recovery = 91.94%
Ni 231.604†            8697.6      267.79 µg/L        10.894      267.79 ppb         10.894   4.07%
   QC value less than the lower limit for Ni 231.604  Recovery = 53.56%
P 214.914†             1335.1      1358.1 µg/L         57.13      1358.1 ppb          57.13   4.21%
   QC value less than the lower limit for P 214.914  Recovery = 54.32%
Pb 220.353†            1132.7      257.94 µg/L        12.550      257.94 ppb         12.550   4.87%
   QC value less than the lower limit for Pb 220.353  Recovery = 51.59%
S 181.975 Axial†        148.1      507.00 µg/L        14.434      507.00 ppb         14.434   2.85%
   QC value less than the lower limit for S 181.975 Axial  Recovery = 50.70%
Sb 206.836†             426.6      271.72 µg/L        12.298      271.72 ppb         12.298   4.53%
   QC value less than the lower limit for Sb 206.836  Recovery = 54.34%
Se 196.026†             184.0         261 µg/L          20.9         261 ppb           20.9   8.01%
   QC value less than the lower limit for Se 196.026  Recovery = 52.27%
SiO2†                  14378.6      2719.1 µg/L        108.02      2719.1 ppb         108.02   3.97%
   QC value less than the lower limit for SiO2  Recovery = 50.85%
Si 251.611†            43957.8      1318.3 µg/L         52.18      1318.3 ppb          52.18   3.96%
   QC value less than the lower limit for Si 251.611  Recovery = 52.73%
Sn 189.927†             664.6      269.07 µg/L        10.538      269.07 ppb         10.538   3.92%
   QC value less than the lower limit for Sn 189.927  Recovery = 53.81%
Sr 421.552†            26628.6      313.75 µg/L        10.133      313.75 ppb         10.133   3.23%
   QC value less than the lower limit for Sr 421.552  Recovery = 62.75%
Ti 334.940†           140268.8      270.99 µg/L        10.731      270.99 ppb         10.731   3.96%
   QC value less than the lower limit for Ti 334.940  Recovery = 54.20%
Tl 190.801†             192.5      263.91 µg/L        11.751      263.91 ppb         11.751   4.45%
   QC value less than the lower limit for Tl 190.801  Recovery = 52.78%
U 367.007†              786.8      229.27 µg/L         1.877      229.27 ppb          1.877   0.82%
   QC value less than the lower limit for U 367.007  Recovery = 45.85%
V 292.402†             37253.1      275.51 µg/L        10.681      275.51 ppb         10.681   3.88%
   QC value less than the lower limit for V 292.402  Recovery = 55.10%
Zn 213.857†            20105.0      264.78 µg/L        10.517      264.78 ppb         10.517   3.97%
   QC value less than the lower limit for Zn 213.857  Recovery = 52.96%
QC Failed.  Continue with analysis.
```

Sequence No.: 2 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 15:04:45**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	29697.7	29697.7	138	%			15:05:32
1	Al 396.153Radial†	-84.1	35.4	63.219	µg/L	63.219	ppb	15:05:32
1	Ca 317.933Radial†	100.9	6.0	4.0719	µg/L	4.0719	ppb	15:05:52
1	Fe 238.204 Radial†	24.3	-12.9	-43.911	µg/L	-43.911	ppb	15:05:52
1	K 766.490 Radial†	570.0	-267.6	-349.47	µg/L	-349.47	ppb	15:05:32
1	Mg 279.077 IEC†	10.1	4.1	28.938	µg/L	28.938	ppb	15:05:52
1	Na 589.592 Radial†	-47.8	7.2	6.9748	µg/L	6.9748	ppb	15:05:32
1	Sr 421.552†	38.6	-10.1	-0.1187	µg/L	-0.1187	ppb	15:05:32
1	Sc 361.383	1735774.1	1735774.1	145.05	%			15:07:30
1	Y 371.029	1028998.2	1028998.2	145.63	%			15:07:30
1	Ag 328.068†	-371.8	-902.5	-6.3500	µg/L	-6.3500	ppb	15:07:32
1	As 188.979†	-0.9	2.1	4.7844	µg/L	4.7844	ppb	15:07:52
1	B 249.677†	274.8	-65.8	-0.5107	µg/L	-0.5107	ppb	15:07:52
1	Ba 233.527†	-84.6	32.1	0.4651	µg/L	0.4651	ppb	15:07:52
1	Be 313.107†	-5587.5	2937.6	1.2989	µg/L	1.2989	ppb	15:07:32
1	Cd 226.502†	-81.2	33.9	0.5533	µg/L	0.5533	ppb	15:07:52
1	Co 228.616†	-105.6	32.8	1.0056	µg/L	1.0056	ppb	15:07:52
1	Cr 267.716†	101.9	-51.0	-0.9433	µg/L	-0.9433	ppb	15:07:52
1	Cu 324.752†	3419.3	-1665.0	-11.740	µg/L	-11.740	ppb	15:07:32
1	Mn 257.610†	153.4	-92.3	-0.2832	µg/L	-0.2832	ppb	15:07:52
1	Mo 202.031†	-15.8	-1.5	-0.1781	µg/L	-0.1781	ppb	15:07:52
1	Ni 231.604†	-39.9	10.2	0.3149	µg/L	0.3149	ppb	15:07:52
1	P 214.914†	-48.9	34.4	35.419	µg/L	35.419	ppb	15:07:52
1	Pb 220.353†	93.4	-44.0	-9.9540	µg/L	-9.9540	ppb	15:07:52
1	S 181.975 Axial†	26.9	-6.2	-21.238	µg/L	-21.238	ppb	15:07:52
1	Sb 206.836†	11.6	1.4	0.9237	µg/L	0.9237	ppb	15:07:52
1	Se 196.026†	12.3	-8.3	-11.8	µg/L	-11.8	ppb	15:07:52
1	SiO2†	1574.0	-807.3	-152.39	µg/L	-152.39	ppb	15:07:52
1	Si 251.611†	343.8	-117.6	-3.5385	µg/L	-3.5385	ppb	15:07:52
1	Sn 189.927†	7.6	1.4	0.5468	µg/L	0.5468	ppb	15:07:52
1	Ti 334.940†	1134.8	-738.4	-1.4058	µg/L	-1.4058	ppb	15:07:32
1	Tl 190.801†	-14.5	5.8	8.0499	µg/L	8.0499	ppb	15:07:52
1	U 367.007†	276.9	-129.3	-40.203	µg/L	-40.203	ppb	15:07:32
1	V 292.402†	275.2	-155.9	-1.1686	µg/L	-1.1686	ppb	15:07:32
1	Zn 213.857†	474.5	-197.5	-2.6099	µg/L	-2.6099	ppb	15:07:52
2	Sc RADIAL	30235.1	30235.1	141	%			15:06:12
2	Al 396.153Radial†	-68.3	47.7	85.222	µg/L	85.222	ppb	15:06:12
2	Ca 317.933Radial†	92.1	-1.5	-1.0327	µg/L	-1.0327	ppb	15:06:33
2	Fe 238.204 Radial†	28.5	-10.3	-34.884	µg/L	-34.884	ppb	15:06:33
2	K 766.490 Radial†	584.8	-264.4	-345.36	µg/L	-345.36	ppb	15:06:12
2	Mg 279.077 IEC†	-4.6	-6.5	-45.344	µg/L	-45.344	ppb	15:06:33
2	Na 589.592 Radial†	-23.4	25.2	24.300	µg/L	24.300	ppb	15:06:12
2	Sr 421.552†	40.2	-9.4	-0.1113	µg/L	-0.1113	ppb	15:06:12
2	Sc 361.383	1737688.5	1737688.5	145.21	%			15:07:54
2	Y 371.029	1030824.4	1030824.4	145.89	%			15:07:54
2	Ag 328.068†	-346.0	-884.5	-6.2184	µg/L	-6.2184	ppb	15:07:56
2	As 188.979†	-2.9	0.7	1.6131	µg/L	1.6131	ppb	15:08:16
2	B 249.677†	289.0	-56.2	-0.4259	µg/L	-0.4259	ppb	15:08:16
2	Ba 233.527†	-95.1	24.9	0.3610	µg/L	0.3610	ppb	15:08:16
2	Be 313.107†	-5610.7	2925.8	1.2937	µg/L	1.2937	ppb	15:07:56
2	Cd 226.502†	-81.2	33.9	0.5528	µg/L	0.5528	ppb	15:08:16
2	Co 228.616†	-97.3	38.6	1.1825	µg/L	1.1825	ppb	15:08:16
2	Cr 267.716†	114.1	-42.6	-0.7808	µg/L	-0.7808	ppb	15:08:16
2	Cu 324.752†	3408.8	-1674.9	-11.810	µg/L	-11.810	ppb	15:07:56
2	Mn 257.610†	165.9	-83.8	-0.2542	µg/L	-0.2542	ppb	15:08:16
2	Mo 202.031†	-17.4	-2.5	-0.3088	µg/L	-0.3088	ppb	15:08:16
2	Ni 231.604†	-49.2	3.8	0.1187	µg/L	0.1187	ppb	15:08:16
2	P 214.914†	-59.8	26.9	27.743	µg/L	27.743	ppb	15:08:16
2	Pb 220.353†	106.9	-34.8	-7.8577	µg/L	-7.8577	ppb	15:08:16

2	S 181.975 Axial†	26.6	-6.4	-22.095	µg/L	-22.095	ppb	15:08:16
2	Sb 206.836†	8.8	-0.5	-0.2951	µg/L	-0.2951	ppb	15:08:16
2	Se 196.026†	10.9	-9.4	-13.3	µg/L	-13.3	ppb	15:08:16
2	SiO2†	1610.0	-783.7	-147.93	µg/L	-147.93	ppb	15:08:16
2	Si 251.611†	337.6	-122.2	-3.6727	µg/L	-3.6727	ppb	15:08:16
2	Sn 189.927†	0.4	-3.6	-1.4750	µg/L	-1.4750	ppb	15:08:16
2	Ti 334.940†	1247.3	-661.7	-1.2555	µg/L	-1.2555	ppb	15:07:56
2	Tl 190.801†	-16.6	4.4	6.0583	µg/L	6.0583	ppb	15:08:16
2	U 367.007†	257.8	-142.6	-44.425	µg/L	-44.425	ppb	15:07:56
2	V 292.402†	297.5	-140.8	-1.0605	µg/L	-1.0605	ppb	15:07:56
2	Zn 213.857†	482.1	-192.7	-2.5434	µg/L	-2.5434	ppb	15:08:16
3	Sc RADIAL	30115.5	30115.5	140	%			15:06:53
3	Al 396.153Radial†	-75.7	42.2	75.439	µg/L	75.439	ppb	15:06:53
3	Ca 317.933Radial†	97.9	2.9	1.9499	µg/L	1.9499	ppb	15:07:13
3	Fe 238.204 Radial†	25.5	-12.4	-42.043	µg/L	-42.043	ppb	15:07:13
3	K 766.490 Radial†	549.2	-288.1	-376.35	µg/L	-376.35	ppb	15:06:53
3	Mg 279.077 IEC†	7.7	2.3	15.832	µg/L	15.832	ppb	15:07:13
3	Na 589.592 Radial†	-40.4	13.1	12.578	µg/L	12.578	ppb	15:06:53
3	Sr 421.552†	44.2	-6.4	-0.0757	µg/L	-0.0757	ppb	15:06:53
3	Sc 361.383	1677762.9	1677762.9	140.20	%			15:08:18
3	Y 371.029	994413.5	994413.5	140.74	%			15:08:18
3	Ag 328.068†	-164.5	-763.5	-5.3584	µg/L	-5.3584	ppb	15:08:20
3	As 188.979†	-7.4	-2.6	-5.8343	µg/L	-5.8343	ppb	15:08:40
3	B 249.677†	281.8	-54.2	-0.3626	µg/L	-0.3626	ppb	15:08:40
3	Ba 233.527†	-88.8	27.0	0.3923	µg/L	0.3923	ppb	15:08:40
3	Be 313.107†	-5748.2	2689.8	1.1893	µg/L	1.1893	ppb	15:08:20
3	Cd 226.502†	-94.1	22.7	0.3728	µg/L	0.3728	ppb	15:08:40
3	Co 228.616†	-99.4	34.7	1.0626	µg/L	1.0626	ppb	15:08:40
3	Cr 267.716†	110.4	-42.5	-0.7758	µg/L	-0.7758	ppb	15:08:40
3	Cu 324.752†	3554.5	-1487.1	-10.492	µg/L	-10.492	ppb	15:08:20
3	Mn 257.610†	182.0	-68.3	-0.2094	µg/L	-0.2094	ppb	15:08:40
3	Mo 202.031†	-17.5	-3.0	-0.3658	µg/L	-0.3658	ppb	15:08:40
3	Ni 231.604†	-45.1	5.6	0.1717	µg/L	0.1717	ppb	15:08:40
3	P 214.914†	-59.7	25.6	26.330	µg/L	26.330	ppb	15:08:40
3	Pb 220.353†	86.6	-46.7	-10.545	µg/L	-10.545	ppb	15:08:40
3	S 181.975 Axial†	21.5	-9.4	-32.283	µg/L	-32.283	ppb	15:08:40
3	Sb 206.836†	6.9	-1.6	-1.0278	µg/L	-1.0278	ppb	15:08:40
3	Se 196.026†	14.2	-6.7	-9.55	µg/L	-9.55	ppb	15:08:40
3	SiO2†	1618.7	-737.9	-139.28	µg/L	-139.28	ppb	15:08:40
3	Si 251.611†	341.9	-110.8	-3.3312	µg/L	-3.3312	ppb	15:08:40
3	Sn 189.927†	0.7	-3.4	-1.3736	µg/L	-1.3736	ppb	15:08:40
3	Ti 334.940†	1226.2	-646.1	-1.2229	µg/L	-1.2229	ppb	15:08:20
3	Tl 190.801†	-11.2	7.8	10.848	µg/L	10.848	ppb	15:08:40
3	U 367.007†	226.0	-159.0	-49.505	µg/L	-49.505	ppb	15:08:20
3	V 292.402†	291.9	-137.5	-1.0414	µg/L	-1.0414	ppb	15:08:20
3	Zn 213.857†	489.7	-175.4	-2.3158	µg/L	-2.3158	ppb	15:08:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1717075.2	143.49	%	2.846				1.98%
Sc RADIAL	30016.1	140	%	1.3				0.94%
Y 371.029	1018078.7	144.09	%	2.903				2.02%
Ag 328.068†	-850.2	-5.9756	µg/L	0.53855	-5.9756	ppb	0.53855	9.01%
QC value less than the lower limit for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	41.7	74.627	µg/L	11.0239	74.627	ppb	11.0239	14.77%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.1	0.1878	µg/L	5.45093	0.1878	ppb	5.45093	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-58.7	-0.4331	µg/L	0.07430	-0.4331	ppb	0.07430	17.16%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	28.0	0.4061	µg/L	0.05346	0.4061	ppb	0.05346	13.16%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	2851.0	1.2607	µg/L	0.06182	1.2607	ppb	0.06182	4.90%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	2.5	1.6630	µg/L	2.56436	1.6630	ppb	2.56436	154.20%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	30.2	0.4930	µg/L	0.10408	0.4930	ppb	0.10408	21.11%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	35.4	1.0836	µg/L	0.09034	1.0836	ppb	0.09034	8.34%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -45.4     -0.8333 µg/L       0.09532     -0.8333 ppb        0.09532  11.44%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -1609.0     -11.348 µg/L        0.7416     -11.348 ppb         0.7416   6.54%
   QC value less than the lower limit for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†       -11.9     -40.279 µg/L        4.7649     -40.279 ppb         4.7649  11.83%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†       -273.4     -357.06 µg/L        16.831     -357.06 ppb         16.831   4.71%
   QC value less than the lower limit for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -0.0     -0.1915 µg/L      39.64879     -0.1915 ppb       39.64879 >999.9%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†              -81.5     -0.2490 µg/L       0.03718     -0.2490 ppb        0.03718  14.93%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -2.4     -0.2842 µg/L       0.09627     -0.2842 ppb        0.09627  33.87%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        15.2      14.618 µg/L        8.8409      14.618 ppb         8.8409  60.48%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                6.5      0.2017 µg/L       0.10150      0.2017 ppb        0.10150  50.31%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                29.0      29.831 µg/L        4.8912      29.831 ppb         4.8912  16.40%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -41.8     -9.4523 µg/L       1.41221     -9.4523 ppb        1.41221  14.94%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -7.3     -25.205 µg/L        6.1444     -25.205 ppb         6.1444  24.38%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -0.2     -0.1331 µg/L       0.98580     -0.1331 ppb        0.98580 740.71%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -8.2       -11.6 µg/L          1.88       -11.6 ppb           1.88  16.28%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                   -776.3     -146.54 µg/L         6.666     -146.54 ppb          6.666   4.55%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†             -116.9     -3.5141 µg/L       0.17205     -3.5141 ppb        0.17205   4.90%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -1.9     -0.7673 µg/L       1.13915     -0.7673 ppb        1.13915 148.47%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               -8.6     -0.1019 µg/L       0.02299     -0.1019 ppb        0.02299  22.56%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -682.1     -1.2947 µg/L       0.09756     -1.2947 ppb        0.09756   7.54%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                6.0      8.3188 µg/L       2.40632      8.3188 ppb        2.40632  28.93%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†              -143.6     -44.711 µg/L        4.6574     -44.711 ppb         4.6574  10.42%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†              -144.7     -1.0902 µg/L       0.06860     -1.0902 ppb        0.06860   6.29%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             -188.5     -2.4897 µg/L       0.15420     -2.4897 ppb        0.15420   6.19%
   QC value within limits for Zn 213.857  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

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Analysis Begun

Start Time: 11/7/2013 15:24:03 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110713.sif
Batch ID:
Results Data Set: 110713
Results Library: C:\pe\optima4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 15:24:05**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20825.4	20825.4	96.9	%			15:24:36
1	Al 396.153Radial†	3547.9	3756.9	6714.4	µg/L	6714.4	ppb	15:24:56
1	Ca 317.933Radial†	7436.8	7606.2	5150.4	µg/L	5150.4	ppb	15:24:56
1	Fe 238.204 Radial†	1518.3	1536.1	5195.3	µg/L	5195.3	ppb	15:24:56
1	K 766.490 Radial†	4860.4	4334.9	5666.5	µg/L	5666.5	ppb	15:24:36
1	Mg 279.077 IEC†	735.7	755.9	5306.9	µg/L	5306.9	ppb	15:24:56
1	Na 589.592 Radial†	15524.8	16060.2	15463	µg/L	15463	ppb	15:24:36
1	Sr 421.552†	43963.3	45323.1	534.01	µg/L	534.01	ppb	15:24:36
1	Sc 361.383	1170539.3	1170539.3	97.816	%			15:25:58
1	Y 371.029	681163.4	681163.4	96.404	%			15:25:58
1	Ag 328.068†	71267.4	72212.7	511.97	µg/L	511.97	ppb	15:26:00
1	As 188.979†	192.3	199.3	460.93	µg/L	460.93	ppb	15:26:20
1	B 249.677†	38158.4	38755.3	464.02	µg/L	464.02	ppb	15:26:00
1	Ba 233.527†	32847.5	33671.5	492.57	µg/L	492.57	ppb	15:26:00
1	Be 313.107†	1097665.5	1128968.0	499.20	µg/L	499.20	ppb	15:25:58
1	Cd 226.502†	29261.6	30004.9	484.42	µg/L	484.42	ppb	15:26:00
1	Co 228.616†	15890.3	16350.7	499.23	µg/L	499.23	ppb	15:26:20
1	Cr 267.716†	25638.2	26089.5	494.69	µg/L	494.69	ppb	15:26:00
1	Cu 324.752†	73668.3	71291.0	502.77	µg/L	502.77	ppb	15:26:00
1	Mn 257.610†	159387.6	162748.9	495.48	µg/L	495.48	ppb	15:26:00
1	Mo 202.031†	4139.2	4241.1	510.72	µg/L	510.72	ppb	15:26:20
1	Ni 231.604†	15665.5	16053.1	494.26	µg/L	494.26	ppb	15:26:00
1	P 214.914†	2403.2	2525.0	2568.9	µg/L	2568.9	ppb	15:26:20
1	Pb 220.353†	2248.2	2190.0	498.64	µg/L	498.64	ppb	15:26:20
1	S 181.975 Axial†	305.8	287.9	986.29	µg/L	986.29	ppb	15:26:20
1	Sb 206.836†	795.2	806.4	513.75	µg/L	513.75	ppb	15:26:20
1	Se 196.026†	353.5	344.6	489	µg/L	489	ppb	15:26:20
1	SiO2†	28376.9	27118.2	5128.0	µg/L	5128.0	ppb	15:26:00
1	Si 251.611†	78433.6	79830.5	2393.9	µg/L	2393.9	ppb	15:26:00
1	Sn 189.927†	1262.9	1287.2	521.05	µg/L	521.05	ppb	15:26:20
1	Ti 334.940†	252318.9	256432.9	495.40	µg/L	495.40	ppb	15:26:00
1	Tl 190.801†	318.0	340.9	467.09	µg/L	467.09	ppb	15:26:20
1	U 367.007†	1786.6	1506.3	441.19	µg/L	441.19	ppb	15:26:00
1	V 292.402†	67184.9	68339.6	505.54	µg/L	505.54	ppb	15:26:00
1	Zn 213.857†	36684.2	36978.8	487.00	µg/L	487.00	ppb	15:26:00
2	Sc RADIAL	20690.5	20690.5	96.3	%			15:24:58
2	Al 396.153Radial†	3542.8	3775.5	6747.6	µg/L	6747.6	ppb	15:25:18
2	Ca 317.933Radial†	7472.6	7693.5	5209.5	µg/L	5209.5	ppb	15:25:18
2	Fe 238.204 Radial†	1531.7	1560.2	5276.7	µg/L	5276.7	ppb	15:25:18
2	K 766.490 Radial†	4955.7	4466.6	5838.8	µg/L	5838.8	ppb	15:24:58
2	Mg 279.077 IEC†	749.2	774.9	5440.4	µg/L	5440.4	ppb	15:25:18
2	Na 589.592 Radial†	15534.9	16175.1	15573	µg/L	15573	ppb	15:24:58
2	Sr 421.552†	43911.0	45564.5	536.85	µg/L	536.85	ppb	15:24:58
2	Sc 361.383	1158797.9	1158797.9	96.834	%			15:26:22
2	Y 371.029	674014.1	674014.1	95.392	%			15:26:22
2	Ag 328.068†	72598.3	74325.4	526.94	µg/L	526.94	ppb	15:26:25
2	As 188.979†	197.4	206.5	477.68	µg/L	477.68	ppb	15:26:45

2	B 249.677†	39227.3	40254.4	482.42	µg/L	482.42	ppb	15:26:25
2	Ba 233.527†	33697.8	34889.8	510.38	µg/L	510.38	ppb	15:26:25
2	Be 313.107†	1095943.5	1138560.1	503.44	µg/L	503.44	ppb	15:26:22
2	Cd 226.502†	29903.3	30970.7	500.02	µg/L	500.02	ppb	15:26:25
2	Co 228.616†	16149.1	16782.6	512.41	µg/L	512.41	ppb	15:26:45
2	Cr 267.716†	26083.2	26814.6	508.43	µg/L	508.43	ppb	15:26:25
2	Cu 324.752†	74960.2	73388.3	517.56	µg/L	517.56	ppb	15:26:25
2	Mn 257.610†	162532.0	167647.2	510.39	µg/L	510.39	ppb	15:26:25
2	Mo 202.031†	4201.2	4348.0	523.59	µg/L	523.59	ppb	15:26:45
2	Ni 231.604†	15958.2	16517.6	508.56	µg/L	508.56	ppb	15:26:25
2	P 214.914†	2446.7	2594.8	2640.0	µg/L	2640.0	ppb	15:26:45
2	Pb 220.353†	2295.8	2262.4	515.09	µg/L	515.09	ppb	15:26:45
2	S 181.975 Axial†	314.9	300.4	1029.1	µg/L	1029.1	ppb	15:26:45
2	Sb 206.836†	810.1	830.1	528.81	µg/L	528.81	ppb	15:26:45
2	Se 196.026†	366.7	361.8	514	µg/L	514	ppb	15:26:45
2	SiO2†	28910.3	27963.0	5287.7	µg/L	5287.7	ppb	15:26:25
2	Si 251.611†	80151.9	82417.4	2471.5	µg/L	2471.5	ppb	15:26:25
2	Sn 189.927†	1292.7	1331.0	538.81	µg/L	538.81	ppb	15:26:45
2	Ti 334.940†	257071.4	263954.5	509.92	µg/L	509.92	ppb	15:26:25
2	Tl 190.801†	324.1	350.5	480.30	µg/L	480.30	ppb	15:26:45
2	U 367.007†	1842.5	1582.6	464.57	µg/L	464.57	ppb	15:26:25
2	V 292.402†	68313.2	70200.7	519.29	µg/L	519.29	ppb	15:26:25
2	Zn 213.857†	37541.7	38244.4	503.69	µg/L	503.69	ppb	15:26:25
3	Sc RADIAL	20488.6	20488.6	95.4	%			15:25:20
3	Al 396.153Radial†	3511.6	3779.1	6753.9	µg/L	6753.9	ppb	15:25:40
3	Ca 317.933Radial†	7417.1	7711.8	5221.9	µg/L	5221.9	ppb	15:25:40
3	Fe 238.204 Radial†	1520.9	1564.5	5291.3	µg/L	5291.3	ppb	15:25:40
3	K 766.490 Radial†	4751.6	4303.3	5625.7	µg/L	5625.7	ppb	15:25:20
3	Mg 279.077 IEC†	732.8	765.3	5373.1	µg/L	5373.1	ppb	15:25:40
3	Na 589.592 Radial†	15137.7	15917.6	15325	µg/L	15325	ppb	15:25:20
3	Sr 421.552†	43076.1	45138.3	531.83	µg/L	531.83	ppb	15:25:20
3	Sc 361.383	1163494.5	1163494.5	97.227	%			15:26:47
3	Y 371.029	676952.3	676952.3	95.808	%			15:26:47
3	Ag 328.068†	73425.2	74873.2	530.82	µg/L	530.82	ppb	15:26:49
3	As 188.979†	194.9	203.1	470.06	µg/L	470.06	ppb	15:27:09
3	B 249.677†	39858.3	40740.0	488.52	µg/L	488.52	ppb	15:26:49
3	Ba 233.527†	34361.7	35432.1	518.31	µg/L	518.31	ppb	15:26:49
3	Be 313.107†	1101799.6	1140014.7	504.09	µg/L	504.09	ppb	15:26:47
3	Cd 226.502†	30658.8	31623.1	510.57	µg/L	510.57	ppb	15:26:49
3	Co 228.616†	16265.0	16834.5	513.99	µg/L	513.99	ppb	15:27:09
3	Cr 267.716†	26706.4	27346.9	518.51	µg/L	518.51	ppb	15:26:49
3	Cu 324.752†	76086.3	74234.1	523.52	µg/L	523.52	ppb	15:26:49
3	Mn 257.610†	165880.2	170413.4	518.81	µg/L	518.81	ppb	15:26:49
3	Mo 202.031†	4235.6	4365.9	525.74	µg/L	525.74	ppb	15:27:09
3	Ni 231.604†	16319.0	16822.1	517.94	µg/L	517.94	ppb	15:26:49
3	P 214.914†	2473.2	2611.9	2657.4	µg/L	2657.4	ppb	15:27:09
3	Pb 220.353†	2335.2	2293.4	522.13	µg/L	522.13	ppb	15:27:09
3	S 181.975 Axial†	320.8	305.2	1045.7	µg/L	1045.7	ppb	15:27:09
3	Sb 206.836†	816.1	832.9	530.53	µg/L	530.53	ppb	15:27:09
3	Se 196.026†	370.2	363.9	517	µg/L	517	ppb	15:27:09
3	SiO2†	29399.6	28345.7	5360.2	µg/L	5360.2	ppb	15:26:49
3	Si 251.611†	81548.4	83519.7	2504.6	µg/L	2504.6	ppb	15:26:49
3	Sn 189.927†	1292.8	1325.8	536.67	µg/L	536.67	ppb	15:27:09
3	Ti 334.940†	261803.5	267749.9	517.25	µg/L	517.25	ppb	15:26:49
3	Tl 190.801†	329.2	354.4	485.69	µg/L	485.69	ppb	15:27:09
3	U 367.007†	1908.7	1642.9	483.35	µg/L	483.35	ppb	15:26:49
3	V 292.402†	69550.1	71188.2	526.53	µg/L	526.53	ppb	15:26:49
3	Zn 213.857†	38218.3	38783.7	510.79	µg/L	510.79	ppb	15:26:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1164277.2	97.292	%	0.4938				0.51%
Sc RADIAL	20668.2	96.2	%	0.79				0.82%
Y 371.029	677376.6	95.868	%	0.5086				0.53%
Ag 328.068†	73803.8	523.24	µg/L	9.953	523.24	ppb	9.953	1.90%
QC value within limits for Ag 328.068 Recovery = 104.65%								
Al 396.153Radial†	3770.5	6738.6	µg/L	21.19	6738.6	ppb	21.19	0.31%
QC value greater than the upper limit for Al 396.153Radial Recovery = 134.77%								
As 188.979†	203.0	469.56	µg/L	8.384	469.56	ppb	8.384	1.79%

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   QC value within limits for As 188.979  Recovery = 93.91%
B 249.677†            39916.5      478.32 µg/L        12.754      478.32 ppb         12.754   2.67%
   QC value within limits for B 249.677  Recovery = 95.66%
Ba 233.527†           34664.5      507.08 µg/L        13.184      507.08 ppb         13.184   2.60%
   QC value within limits for Ba 233.527  Recovery = 101.42%
Be 313.107†         1135847.6      502.24 µg/L         2.654      502.24 ppb          2.654   0.53%
   QC value within limits for Be 313.107  Recovery = 100.45%
Ca 317.933Radial†      7670.5      5194.0 µg/L         38.19      5194.0 ppb          38.19   0.74%
   QC value within limits for Ca 317.933Radial  Recovery = 103.88%
Cd 226.502†           30866.2      498.34 µg/L        13.155      498.34 ppb         13.155   2.64%
   QC value within limits for Cd 226.502  Recovery = 99.67%
Co 228.616†           16655.9      508.54 µg/L         8.106      508.54 ppb          8.106   1.59%
   QC value within limits for Co 228.616  Recovery = 101.71%
Cr 267.716†           26750.3      507.21 µg/L        11.959      507.21 ppb         11.959   2.36%
   QC value within limits for Cr 267.716  Recovery = 101.44%
Cu 324.752†           72971.1      514.61 µg/L        10.682      514.61 ppb         10.682   2.08%
   QC value within limits for Cu 324.752  Recovery = 102.92%
Fe 238.204 Radial†     1553.6      5254.4 µg/L         51.70      5254.4 ppb          51.70   0.98%
   QC value within limits for Fe 238.204 Radial  Recovery = 105.09%
K 766.490 Radial†      4368.3      5710.3 µg/L        113.10      5710.3 ppb         113.10   1.98%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 114.21%
Mg 279.077 IEC†         765.3      5373.5 µg/L         66.76      5373.5 ppb          66.76   1.24%
   QC value within limits for Mg 279.077 IEC  Recovery = 107.47%
Mn 257.610†          166936.5      508.22 µg/L        11.818      508.22 ppb         11.818   2.33%
   QC value within limits for Mn 257.610  Recovery = 101.64%
Mo 202.031†            4318.3      520.02 µg/L         8.125      520.02 ppb          8.125   1.56%
   QC value within limits for Mo 202.031  Recovery = 104.00%
Na 589.592 Radial†    16051.0       15454 µg/L         124.2       15454 ppb          124.2   0.80%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 154.54%
Ni 231.604†           16464.3      506.92 µg/L        11.925      506.92 ppb         11.925   2.35%
   QC value within limits for Ni 231.604  Recovery = 101.38%
P 214.914†             2577.2      2622.1 µg/L         46.86      2622.1 ppb          46.86   1.79%
   QC value within limits for P 214.914  Recovery = 104.88%
Pb 220.353†            2248.6      511.95 µg/L        12.056      511.95 ppb         12.056   2.35%
   QC value within limits for Pb 220.353  Recovery = 102.39%
S 181.975 Axial†        297.9      1020.4 µg/L         30.65      1020.4 ppb          30.65   3.00%
   QC value within limits for S 181.975 Axial  Recovery = 102.04%
Sb 206.836†             823.1      524.36 µg/L         9.231      524.36 ppb          9.231   1.76%
   QC value within limits for Sb 206.836  Recovery = 104.87%
Se 196.026†             356.8         507 µg/L          15.1         507 ppb           15.1   2.97%
   QC value within limits for Se 196.026  Recovery = 101.32%
SiO2†                 27809.0      5258.7 µg/L        118.78      5258.7 ppb         118.78   2.26%
   QC value within limits for SiO2  Recovery = 98.34%
Si 251.611†           81922.5      2456.7 µg/L         56.83      2456.7 ppb          56.83   2.31%
   QC value within limits for Si 251.611  Recovery = 98.27%
Sn 189.927†            1314.7      532.18 µg/L         9.692      532.18 ppb          9.692   1.82%
   QC value within limits for Sn 189.927  Recovery = 106.44%
Sr 421.552†           45342.0      534.23 µg/L         2.518      534.23 ppb          2.518   0.47%
   QC value within limits for Sr 421.552  Recovery = 106.85%
Ti 334.940†          262712.4      507.52 µg/L        11.118      507.52 ppb         11.118   2.19%
   QC value within limits for Ti 334.940  Recovery = 101.50%
Tl 190.801†             348.6      477.69 µg/L         9.567      477.69 ppb          9.567   2.00%
   QC value within limits for Tl 190.801  Recovery = 95.54%
U 367.007†             1577.3      463.04 µg/L        21.118      463.04 ppb         21.118   4.56%
   QC value within limits for U 367.007  Recovery = 92.61%
V 292.402†            69909.5      517.12 µg/L        10.665      517.12 ppb         10.665   2.06%
   QC value within limits for V 292.402  Recovery = 103.42%
Zn 213.857†           38002.3      500.50 µg/L        12.215      500.50 ppb         12.215   2.44%
   QC value within limits for Zn 213.857  Recovery = 100.10%
QC Failed.  Continue with analysis.
```

Sequence No.: 2
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/7/2013 15:27:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20187.8	20187.8	94.0	%			15:28:04
1	Al 396.153Radial†	-77.9	13.3	23.810	µg/L	23.810	ppb	15:28:04
1	Ca 317.933Radial†	63.5	0.6	0.4319	µg/L	0.4319	ppb	15:28:24
1	Fe 238.204 Radial†	31.5	3.0	10.103	µg/L	10.103	ppb	15:28:24
1	K 766.490 Radial†	570.6	-72.7	-94.964	µg/L	-94.964	ppb	15:28:04
1	Mg 279.077 IEC†	3.7	0.7	5.1209	µg/L	5.1209	ppb	15:28:24
1	Na 589.592 Radial†	-58.0	-19.9	-19.182	µg/L	-19.182	ppb	15:28:04
1	Sr 421.552†	35.0	-0.8	-0.0089	µg/L	-0.0089	ppb	15:28:04
1	Sc 361.383	1150065.2	1150065.2	96.105	%			15:30:02
1	Y 371.029	682126.4	682126.4	96.540	%			15:30:02
1	Ag 328.068†	416.6	-212.6	-1.5237	µg/L	-1.5237	ppb	15:30:04
1	As 188.979†	-5.0	-2.5	-5.6713	µg/L	-5.6713	ppb	15:30:24
1	B 249.677†	320.0	77.7	0.9711	µg/L	0.9711	ppb	15:30:24
1	Ba 233.527†	-103.1	-16.9	-0.2468	µg/L	-0.2468	ppb	15:30:24
1	Be 313.107†	-6048.8	495.8	0.2192	µg/L	0.2192	ppb	15:30:04
1	Cd 226.502†	-74.8	12.0	0.1922	µg/L	0.1922	ppb	15:30:24
1	Co 228.616†	-107.0	-5.8	-0.1767	µg/L	-0.1767	ppb	15:30:24
1	Cr 267.716†	117.2	0.7	0.0010	µg/L	0.0010	ppb	15:30:24
1	Cu 324.752†	3701.5	-170.8	-1.1908	µg/L	-1.1908	ppb	15:30:04
1	Mn 257.610†	186.9	-3.5	-0.0107	µg/L	-0.0107	ppb	15:30:24
1	Mo 202.031†	-14.9	-6.0	-0.7267	µg/L	-0.7267	ppb	15:30:24
1	Ni 231.604†	-41.1	-5.1	-0.1558	µg/L	-0.1558	ppb	15:30:24
1	P 214.914†	-51.7	14.4	14.740	µg/L	14.740	ppb	15:30:24
1	Pb 220.353†	118.1	14.4	3.2616	µg/L	3.2616	ppb	15:30:24
1	S 181.975 Axial†	25.9	2.2	7.6875	µg/L	7.6875	ppb	15:30:24
1	Sb 206.836†	5.5	-0.8	-0.5394	µg/L	-0.5394	ppb	15:30:24
1	Se 196.026†	13.2	-3.1	-4.38	µg/L	-4.38	ppb	15:30:24
1	SiO2†	1735.5	-86.6	-16.342	µg/L	-16.342	ppb	15:30:24
1	Si 251.611†	346.7	6.1	0.1929	µg/L	0.1929	ppb	15:30:24
1	Sn 189.927†	4.2	0.5	0.1962	µg/L	0.1962	ppb	15:30:24
1	Ti 334.940†	1346.2	-120.0	-0.2424	µg/L	-0.2424	ppb	15:30:04
1	Tl 190.801†	-18.0	-2.9	-3.9937	µg/L	-3.9937	ppb	15:30:24
1	U 367.007†	370.6	65.4	20.407	µg/L	20.407	ppb	15:30:04
1	V 292.402†	291.9	-41.9	-0.3001	µg/L	-0.3001	ppb	15:30:04
1	Zn 213.857†	503.4	-0.8	-0.0102	µg/L	-0.0102	ppb	15:30:24
2	Sc RADIAL	20207.4	20207.4	94.0	%			15:28:45
2	Al 396.153Radial†	-77.1	14.2	25.411	µg/L	25.411	ppb	15:28:45
2	Ca 317.933Radial†	82.6	20.8	14.123	µg/L	14.123	ppb	15:29:05
2	Fe 238.204 Radial†	29.6	1.0	3.2431	µg/L	3.2431	ppb	15:29:05
2	K 766.490 Radial†	594.9	-47.4	-61.896	µg/L	-61.896	ppb	15:28:45
2	Mg 279.077 IEC†	1.0	-2.1	-14.970	µg/L	-14.970	ppb	15:29:05
2	Na 589.592 Radial†	-41.5	-2.3	-2.1835	µg/L	-2.1835	ppb	15:28:45
2	Sr 421.552†	37.1	1.4	0.0166	µg/L	0.0166	ppb	15:28:45
2	Sc 361.383	1129213.4	1129213.4	94.362	%			15:30:26
2	Y 371.029	669622.5	669622.5	94.771	%			15:30:26
2	Ag 328.068†	604.6	-5.4	-0.0358	µg/L	-0.0358	ppb	15:30:28
2	As 188.979†	-3.1	-0.6	-1.2471	µg/L	-1.2471	ppb	15:30:48
2	B 249.677†	284.5	46.2	0.5912	µg/L	0.5912	ppb	15:30:48
2	Ba 233.527†	-99.4	-15.0	-0.2203	µg/L	-0.2203	ppb	15:30:48
2	Be 313.107†	-5830.3	611.1	0.2702	µg/L	0.2702	ppb	15:30:28
2	Cd 226.502†	-77.9	7.3	0.1182	µg/L	0.1182	ppb	15:30:48
2	Co 228.616†	-92.8	7.2	0.2208	µg/L	0.2208	ppb	15:30:48
2	Cr 267.716†	142.1	29.4	0.5612	µg/L	0.5612	ppb	15:30:48
2	Cu 324.752†	3570.8	-238.2	-1.6782	µg/L	-1.6782	ppb	15:30:28
2	Mn 257.610†	202.5	16.5	0.0509	µg/L	0.0509	ppb	15:30:48
2	Mo 202.031†	-4.0	5.2	0.6221	µg/L	0.6221	ppb	15:30:48
2	Ni 231.604†	-25.3	10.9	0.3354	µg/L	0.3354	ppb	15:30:48
2	P 214.914†	-67.0	-2.8	-2.8932	µg/L	-2.8932	ppb	15:30:48
2	Pb 220.353†	92.4	-10.5	-2.3864	µg/L	-2.3864	ppb	15:30:48

2	S 181.975 Axial†	16.8	-6.9	-23.883 µg/L	-23.883 ppb	15:30:48
2	Sb 206.836†	7.4	1.4	0.8616 µg/L	0.8616 ppb	15:30:48
2	Se 196.026†	10.4	-5.8	-8.18 µg/L	-8.18 ppb	15:30:48
2	SiO2†	1675.4	-116.9	-22.053 µg/L	-22.053 ppb	15:30:48
2	Si 251.611†	331.6	-3.3	-0.1061 µg/L	-0.1061 ppb	15:30:48
2	Sn 189.927†	2.5	-1.3	-0.5047 µg/L	-0.5047 ppb	15:30:48
2	Ti 334.940†	1439.7	5.0	0.0126 µg/L	0.0126 ppb	15:30:28
2	Tl 190.801†	-18.2	-3.5	-4.7951 µg/L	-4.7951 ppb	15:30:48
2	U 367.007†	288.3	-14.6	-4.5874 µg/L	-4.5874 ppb	15:30:28
2	V 292.402†	252.2	-78.3	-0.5638 µg/L	-0.5638 ppb	15:30:28
2	Zn 213.857†	500.9	6.2	0.0816 µg/L	0.0816 ppb	15:30:48
3	Sc RADIAL	19324.1	19324.1	89.9 %		15:29:25
3	Al 396.153Radial†	-82.8	4.2	7.5037 µg/L	7.5037 ppb	15:29:25
3	Ca 317.933Radial†	55.3	-5.5	-3.6930 µg/L	-3.6930 ppb	15:29:45
3	Fe 238.204 Radial†	29.1	1.9	6.3354 µg/L	6.3354 ppb	15:29:45
3	K 766.490 Radial†	589.7	-24.3	-31.704 µg/L	-31.704 ppb	15:29:25
3	Mg 279.077 IEC†	-0.7	-4.0	-27.861 µg/L	-27.861 ppb	15:29:45
3	Na 589.592 Radial†	-65.1	-30.6	-29.419 µg/L	-29.419 ppb	15:29:25
3	Sr 421.552†	39.0	5.4	0.0636 µg/L	0.0636 ppb	15:29:25
3	Sc 361.383	1096338.7	1096338.7	91.615 %		15:30:50
3	Y 371.029	649747.7	649747.7	91.958 %		15:30:50
3	Ag 328.068†	604.8	14.0	0.1062 µg/L	0.1062 ppb	15:30:52
3	As 188.979†	-5.1	-2.9	-6.5967 µg/L	-6.5967 ppb	15:31:12
3	B 249.677†	211.0	-25.0	-0.3241 µg/L	-0.3241 ppb	15:31:12
3	Ba 233.527†	-89.2	-7.0	-0.1010 µg/L	-0.1010 ppb	15:31:12
3	Be 313.107†	-5797.9	461.1	0.2039 µg/L	0.2039 ppb	15:30:52
3	Cd 226.502†	-91.2	-9.7	-0.1584 µg/L	-0.1584 ppb	15:31:12
3	Co 228.616†	-108.1	-12.4	-0.3796 µg/L	-0.3796 ppb	15:31:12
3	Cr 267.716†	102.8	-9.1	-0.1674 µg/L	-0.1674 ppb	15:31:12
3	Cu 324.752†	3640.0	-49.3	-0.3494 µg/L	-0.3494 ppb	15:30:52
3	Mn 257.610†	182.9	1.6	0.0059 µg/L	0.0059 ppb	15:31:12
3	Mo 202.031†	-5.8	3.1	0.3693 µg/L	0.3693 ppb	15:31:12
3	Ni 231.604†	-39.9	-5.8	-0.1788 µg/L	-0.1788 ppb	15:31:12
3	P 214.914†	-57.6	5.2	5.3356 µg/L	5.3356 ppb	15:31:12
3	Pb 220.353†	98.9	-0.4	-0.0936 µg/L	-0.0936 ppb	15:31:12
3	S 181.975 Axial†	30.9	9.0	31.075 µg/L	31.075 ppb	15:31:12
3	Sb 206.836†	9.7	4.0	2.5696 µg/L	2.5696 ppb	15:31:12
3	Se 196.026†	12.8	-2.8	-4.02 µg/L	-4.02 ppb	15:31:12
3	SiO2†	1618.1	-126.2	-23.830 µg/L	-23.830 ppb	15:31:12
3	Si 251.611†	314.2	-11.7	-0.3552 µg/L	-0.3552 ppb	15:31:12
3	Sn 189.927†	1.1	-2.7	-1.0953 µg/L	-1.0953 ppb	15:31:12
3	Ti 334.940†	1318.8	-81.2	-0.1536 µg/L	-0.1536 ppb	15:30:52
3	Tl 190.801†	-17.6	-3.4	-4.6947 µg/L	-4.6947 ppb	15:31:12
3	U 367.007†	274.4	-20.6	-6.4782 µg/L	-6.4782 ppb	15:30:52
3	V 292.402†	356.6	43.6	0.3189 µg/L	0.3189 ppb	15:30:52
3	Zn 213.857†	488.8	8.9	0.1193 µg/L	0.1193 ppb	15:31:12

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1125205.8	94.027	%	2.2635				2.41%
Sc RADIAL	19906.4	92.6	%	2.35				2.53%
Y 371.029	667165.5	94.423	%	2.3110				2.45%
Ag 328.068†	-68.0	-0.4845	µg/L	0.90283	-0.4845	ppb	0.90283	186.36%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	10.6	18.908	µg/L	9.9090	18.908	ppb	9.9090	52.41%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.0	-4.5050	µg/L	2.85915	-4.5050	ppb	2.85915	63.47%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	33.0	0.4127	µg/L	0.66580	0.4127	ppb	0.66580	161.33%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-12.9	-0.1894	µg/L	0.07767	-0.1894	ppb	0.07767	41.01%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	522.7	0.2311	µg/L	0.03472	0.2311	ppb	0.03472	15.02%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.3	3.6208	µg/L	9.32649	3.6208	ppb	9.32649	257.58%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	3.2	0.0507	µg/L	0.18480	0.0507	ppb	0.18480	364.67%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-3.7	-0.1118	µg/L	0.30539	-0.1118	ppb	0.30539	273.05%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                7.0      0.1316 µg/L       0.38145      0.1316 ppb        0.38145 289.82%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -152.8     -1.0728 µg/L       0.67220     -1.0728 ppb        0.67220  62.66%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         1.9      6.5606 µg/L       3.43562      6.5606 ppb        3.43562  52.37%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -48.1     -62.854 µg/L       31.6411     -62.854 ppb        31.6411  50.34%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.8     -12.570 µg/L       16.6212     -12.570 ppb        16.6212 132.23%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                4.8      0.0154 µg/L       0.03185      0.0154 ppb        0.03185 207.35%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                0.7      0.0882 µg/L       0.71698      0.0882 ppb        0.71698 812.56%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -17.6     -16.928 µg/L       13.7568     -16.928 ppb        13.7568  81.27%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                0.0      0.0002 µg/L       0.29046      0.0002 ppb        0.29046 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 5.6      5.7275 µg/L       8.82321      5.7275 ppb        8.82321 154.05%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                1.2      0.2605 µg/L       2.84063      0.2605 ppb        2.84063 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.4      4.9598 µg/L      27.58028      4.9598 ppb       27.58028 556.07%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                1.5      0.9639 µg/L       1.55704      0.9639 ppb        1.55704 161.53%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -3.9       -5.53 µg/L         2.307       -5.53 ppb          2.307  41.75%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                   -109.9     -20.742 µg/L        3.9126     -20.742 ppb         3.9126  18.86%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               -3.0     -0.0894 µg/L       0.27444     -0.0894 ppb        0.27444 306.84%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -1.2     -0.4679 µg/L       0.64654     -0.4679 ppb        0.64654 138.17%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                2.0      0.0238 µg/L       0.03679      0.0238 ppb        0.03679 154.68%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -65.4     -0.1278 µg/L       0.12945     -0.1278 ppb        0.12945 101.30%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -3.2     -4.4945 µg/L       0.43662     -4.4945 ppb        0.43662   9.71%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                10.1      3.1139 µg/L      15.00635      3.1139 ppb       15.00635 481.91%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -25.5     -0.1817 µg/L       0.45308     -0.1817 ppb        0.45308 249.40%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                4.8      0.0636 µg/L       0.06659      0.0636 ppb        0.06659 104.77%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 11 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 15:58:11**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20286.5	20286.5	94.4	%			15:58:44
1	Al 396.153Radial†	3370.4	3666.2	6552.1	µg/L	6552.1	ppb	15:59:04
1	Ca 317.933Radial†	7043.8	7393.9	5006.6	µg/L	5006.6	ppb	15:59:04
1	Fe 238.204 Radial†	1451.3	1506.7	5095.6	µg/L	5095.6	ppb	15:59:04
1	K 766.490 Radial†	4716.3	4315.5	5641.3	µg/L	5641.3	ppb	15:58:44
1	Mg 279.077 IEC†	701.8	740.2	5196.9	µg/L	5196.9	ppb	15:59:04
1	Na 589.592 Radial†	15115.1	16051.9	15455	µg/L	15455	ppb	15:58:44
1	Sr 421.552†	42423.0	44896.7	528.99	µg/L	528.99	ppb	15:58:44
1	Sc 361.383	1151393.4	1151393.4	96.216	%			16:00:06
1	Y 371.029	669062.9	669062.9	94.691	%			16:00:06
1	Ag 328.068†	71134.4	73286.1	519.55	µg/L	519.55	ppb	16:00:08
1	As 188.979†	199.5	210.0	485.49	µg/L	485.49	ppb	16:00:28
1	B 249.677†	38426.7	39682.8	475.99	µg/L	475.99	ppb	16:00:08
1	Ba 233.527†	32841.7	34223.8	500.64	µg/L	500.64	ppb	16:00:08
1	Be 313.107†	1071581.7	1120518.4	495.46	µg/L	495.46	ppb	16:00:06
1	Cd 226.502†	29160.1	30396.9	490.77	µg/L	490.77	ppb	16:00:08
1	Co 228.616†	15551.6	16268.8	496.72	µg/L	496.72	ppb	16:00:08
1	Cr 267.716†	25577.3	26462.1	501.73	µg/L	501.73	ppb	16:00:08
1	Cu 324.752†	73784.4	72664.0	512.43	µg/L	512.43	ppb	16:00:08
1	Mn 257.610†	158567.5	164606.2	501.13	µg/L	501.13	ppb	16:00:08
1	Mo 202.031†	4068.7	4238.2	510.36	µg/L	510.36	ppb	16:00:28
1	Ni 231.604†	15512.6	16160.4	497.57	µg/L	497.57	ppb	16:00:08
1	P 214.914†	2308.7	2467.7	2510.3	µg/L	2510.3	ppb	16:00:28
1	Pb 220.353†	2203.7	2181.9	496.77	µg/L	496.77	ppb	16:00:28
1	S 181.975 Axial†	308.9	296.3	1015.2	µg/L	1015.2	ppb	16:00:28
1	Sb 206.836†	784.8	809.2	515.45	µg/L	515.45	ppb	16:00:28
1	Se 196.026†	355.2	352.3	500	µg/L	500	ppb	16:00:28
1	SiO2†	28524.1	27753.5	5248.1	µg/L	5248.1	ppb	16:00:08
1	Si 251.611†	78715.1	81456.5	2442.8	µg/L	2442.8	ppb	16:00:08
1	Sn 189.927†	1226.2	1270.5	514.30	µg/L	514.30	ppb	16:00:28
1	Ti 334.940†	251868.2	260253.9	502.76	µg/L	502.76	ppb	16:00:06
1	Tl 190.801†	322.3	350.8	480.85	µg/L	480.85	ppb	16:00:28
1	U 367.007†	1872.9	1626.3	479.28	µg/L	479.28	ppb	16:00:08
1	V 292.402†	66950.9	69238.6	512.09	µg/L	512.09	ppb	16:00:08
1	Zn 213.857†	36684.0	37602.2	495.26	µg/L	495.26	ppb	16:00:08
2	Sc RADIAL	20528.2	20528.2	95.5	%			15:59:06
2	Al 396.153Radial†	3356.7	3609.8	6451.3	µg/L	6451.3	ppb	15:59:26
2	Ca 317.933Radial†	7041.0	7303.1	4945.1	µg/L	4945.1	ppb	15:59:26
2	Fe 238.204 Radial†	1446.6	1483.6	5017.8	µg/L	5017.8	ppb	15:59:26
2	K 766.490 Radial†	4746.2	4288.0	5605.1	µg/L	5605.1	ppb	15:59:06
2	Mg 279.077 IEC†	713.3	743.4	5219.5	µg/L	5219.5	ppb	15:59:26
2	Na 589.592 Radial†	15265.8	16021.1	15425	µg/L	15425	ppb	15:59:06
2	Sr 421.552†	43347.6	45335.5	534.16	µg/L	534.16	ppb	15:59:06
2	Sc 361.383	1158229.4	1158229.4	96.787	%			16:00:30
2	Y 371.029	673156.7	673156.7	95.271	%			16:00:30
2	Ag 328.068†	70393.8	72084.5	511.05	µg/L	511.05	ppb	16:00:32
2	As 188.979†	194.8	203.9	471.42	µg/L	471.42	ppb	16:00:52
2	B 249.677†	37923.1	38926.9	466.82	µg/L	466.82	ppb	16:00:32
2	Ba 233.527†	32485.1	33653.9	492.30	µg/L	492.30	ppb	16:00:32
2	Be 313.107†	1075830.3	1118334.8	494.50	µg/L	494.50	ppb	16:00:30
2	Cd 226.502†	28610.6	29650.2	478.71	µg/L	478.71	ppb	16:00:32
2	Co 228.616†	15322.8	15937.0	486.57	µg/L	486.57	ppb	16:00:32
2	Cr 267.716†	25110.5	25822.9	489.62	µg/L	489.62	ppb	16:00:32
2	Cu 324.752†	72742.8	71135.3	501.65	µg/L	501.65	ppb	16:00:32
2	Mn 257.610†	156332.4	161324.2	491.14	µg/L	491.14	ppb	16:00:32
2	Mo 202.031†	4023.7	4166.7	501.76	µg/L	501.76	ppb	16:00:52
2	Ni 231.604†	15283.7	15828.8	487.36	µg/L	487.36	ppb	16:00:32
2	P 214.914†	2296.0	2440.4	2482.6	µg/L	2482.6	ppb	16:00:52
2	Pb 220.353†	2176.6	2140.4	487.36	µg/L	487.36	ppb	16:00:52

2	S 181.975 Axial†	291.1	276.0	945.49 µg/L	945.49 ppb		16:00:52
2	Sb 206.836†	782.8	802.2	511.08 µg/L	511.08 ppb		16:00:52
2	Se 196.026†	349.6	344.3	489 µg/L	489 ppb		16:00:52
2	SiO2†	28174.9	27217.8	5146.7 µg/L	5146.7 ppb		16:00:32
2	Si 251.611†	77566.5	79786.9	2392.7 µg/L	2392.7 ppb		16:00:32
2	Sn 189.927†	1210.6	1246.9	504.74 µg/L	504.74 ppb		16:00:52
2	Ti 334.940†	252683.0	259550.7	501.42 µg/L	501.42 ppb		16:00:30
2	Tl 190.801†	314.0	340.3	466.44 µg/L	466.44 ppb		16:00:52
2	U 367.007†	1770.9	1509.5	443.19 µg/L	443.19 ppb		16:00:32
2	V 292.402†	65989.8	67834.8	501.71 µg/L	501.71 ppb		16:00:32
2	Zn 213.857†	36220.8	36898.6	486.00 µg/L	486.00 ppb		16:00:32
3	Sc RADIAL	20132.8	20132.8	93.7 %			15:59:28
3	Al 396.153Radial†	3352.0	3673.8	6565.8 µg/L	6565.8 ppb		15:59:48
3	Ca 317.933Radial†	7076.3	7485.5	5068.7 µg/L	5068.7 ppb		15:59:48
3	Fe 238.204 Radial†	1459.3	1527.0	5164.2 µg/L	5164.2 ppb		15:59:48
3	K 766.490 Radial†	4568.2	4195.7	5484.8 µg/L	5484.8 ppb		15:59:28
3	Mg 279.077 IEC†	701.9	745.9	5237.3 µg/L	5237.3 ppb		15:59:48
3	Na 589.592 Radial†	15056.1	16111.1	15512 µg/L	15512 ppb		15:59:28
3	Sr 421.552†	42307.1	45116.0	531.57 µg/L	531.57 ppb		15:59:28
3	Sc 361.383	1151427.4	1151427.4	96.219 %			16:00:55
3	Y 371.029	668733.4	668733.4	94.645 %			16:00:55
3	Ag 328.068†	72421.2	74621.3	529.00 µg/L	529.00 ppb		16:00:57
3	As 188.979†	191.3	201.5	466.20 µg/L	466.20 ppb		16:01:17
3	B 249.677†	39257.2	40544.8	486.60 µg/L	486.60 ppb		16:00:57
3	Ba 233.527†	33528.7	34936.8	511.07 µg/L	511.07 ppb		16:00:57
3	Be 313.107†	1067103.1	1115831.0	493.39 µg/L	493.39 ppb		16:00:55
3	Cd 226.502†	29652.7	30908.0	499.03 µg/L	499.03 ppb		16:00:57
3	Co 228.616†	15866.8	16595.9	506.71 µg/L	506.71 ppb		16:00:57
3	Cr 267.716†	26005.9	26906.7	510.15 µg/L	510.15 ppb		16:00:57
3	Cu 324.752†	74996.9	73922.0	521.32 µg/L	521.32 ppb		16:00:57
3	Mn 257.610†	161876.9	168040.7	511.59 µg/L	511.59 ppb		16:00:57
3	Mo 202.031†	4026.9	4194.6	505.13 µg/L	505.13 ppb		16:01:17
3	Ni 231.604†	15816.3	16475.7	507.27 µg/L	507.27 ppb		16:00:57
3	P 214.914†	2303.4	2462.0	2504.4 µg/L	2504.4 ppb		16:01:17
3	Pb 220.353†	2177.8	2155.0	490.61 µg/L	490.61 ppb		16:01:17
3	S 181.975 Axial†	305.4	292.7	1002.6 µg/L	1002.6 ppb		16:01:17
3	Sb 206.836†	781.5	805.7	513.12 µg/L	513.12 ppb		16:01:17
3	Se 196.026†	347.7	344.5	489 µg/L	489 ppb		16:01:17
3	SiO2†	29203.6	28458.8	5381.4 µg/L	5381.4 ppb		16:00:57
3	Si 251.611†	80180.9	82977.4	2488.6 µg/L	2488.6 ppb		16:00:57
3	Sn 189.927†	1220.5	1264.5	511.88 µg/L	511.88 ppb		16:01:17
3	Ti 334.940†	250717.4	259050.1	500.42 µg/L	500.42 ppb		16:00:55
3	Tl 190.801†	318.6	346.9	475.34 µg/L	475.34 ppb		16:01:17
3	U 367.007†	1942.4	1698.5	501.44 µg/L	501.44 ppb		16:00:57
3	V 292.402†	68285.1	70623.1	522.16 µg/L	522.16 ppb		16:00:57
3	Zn 213.857†	37528.9	38479.2	506.82 µg/L	506.82 ppb		16:00:57

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1153683.4	96.407	%	0.3290				0.34%
Sc RADIAL	20315.8	94.5	%	0.93				0.98%
Y 371.029	670317.7	94.869	%	0.3488				0.37%
Ag 328.068†	73330.6	519.87	µg/L	8.978	519.87	ppb	8.978	1.73%
QC value within limits for Ag 328.068 Recovery = 103.97%								
Al 396.153Radial†	3649.9	6523.0	µg/L	62.52	6523.0	ppb	62.52	0.96%
QC value greater than the upper limit for Al 396.153Radial Recovery = 130.46%								
As 188.979†	205.2	474.37	µg/L	9.978	474.37	ppb	9.978	2.10%
QC value within limits for As 188.979 Recovery = 94.87%								
B 249.677†	39718.2	476.47	µg/L	9.898	476.47	ppb	9.898	2.08%
QC value within limits for B 249.677 Recovery = 95.29%								
Ba 233.527†	34271.5	501.34	µg/L	9.405	501.34	ppb	9.405	1.88%
QC value within limits for Ba 233.527 Recovery = 100.27%								
Be 313.107†	1118228.1	494.45	µg/L	1.037	494.45	ppb	1.037	0.21%
QC value within limits for Be 313.107 Recovery = 98.89%								
Ca 317.933Radial†	7394.2	5006.8	µg/L	61.78	5006.8	ppb	61.78	1.23%
QC value within limits for Ca 317.933Radial Recovery = 100.14%								
Cd 226.502†	30318.4	489.50	µg/L	10.216	489.50	ppb	10.216	2.09%
QC value within limits for Cd 226.502 Recovery = 97.90%								
Co 228.616†	16267.3	496.67	µg/L	10.073	496.67	ppb	10.073	2.03%

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   QC value within limits for Co 228.616  Recovery = 99.33%
Cr 267.716†            26397.2      500.50 µg/L        10.317      500.50 ppb         10.317   2.06%
   QC value within limits for Cr 267.716  Recovery = 100.10%
Cu 324.752†            72573.8      511.80 µg/L         9.850      511.80 ppb          9.850   1.92%
   QC value within limits for Cu 324.752  Recovery = 102.36%
Fe 238.204 Radial†      1505.8      5092.6 µg/L         73.26      5092.6 ppb          73.26   1.44%
   QC value within limits for Fe 238.204 Radial  Recovery = 101.85%
K 766.490 Radial†       4266.4      5577.1 µg/L         81.92      5577.1 ppb          81.92   1.47%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 111.54%
Mg 279.077 IEC†          743.2      5217.9 µg/L         20.26      5217.9 ppb          20.26   0.39%
   QC value within limits for Mg 279.077 IEC  Recovery = 104.36%
Mn 257.610†           164657.0      501.29 µg/L        10.228      501.29 ppb         10.228   2.04%
   QC value within limits for Mn 257.610  Recovery = 100.26%
Mo 202.031†             4199.8      505.75 µg/L         4.336      505.75 ppb          4.336   0.86%
   QC value within limits for Mo 202.031  Recovery = 101.15%
Na 589.592 Radial†     16061.4       15464 µg/L          44.0       15464 ppb           44.0   0.28%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 154.64%
Ni 231.604†            16155.0      497.40 µg/L         9.960      497.40 ppb          9.960   2.00%
   QC value within limits for Ni 231.604  Recovery = 99.48%
P 214.914†              2456.7      2499.1 µg/L         14.58      2499.1 ppb          14.58   0.58%
   QC value within limits for P 214.914  Recovery = 99.96%
Pb 220.353†             2159.1      491.58 µg/L         4.778      491.58 ppb          4.778   0.97%
   QC value within limits for Pb 220.353  Recovery = 98.32%
S 181.975 Axial†         288.4      987.74 µg/L        37.130      987.74 ppb         37.130   3.76%
   QC value within limits for S 181.975 Axial  Recovery = 98.77%
Sb 206.836†              805.7      513.21 µg/L         2.188      513.21 ppb          2.188   0.43%
   QC value within limits for Sb 206.836  Recovery = 102.64%
Se 196.026†              347.0         493 µg/L           6.4         493 ppb            6.4   1.30%
   QC value within limits for Se 196.026  Recovery = 98.56%
SiO2†                  27810.0      5258.7 µg/L        117.68      5258.7 ppb         117.68   2.24%
   QC value within limits for SiO2  Recovery = 98.34%
Si 251.611†            81406.9      2441.3 µg/L         47.96      2441.3 ppb          47.96   1.96%
   QC value within limits for Si 251.611  Recovery = 97.65%
Sn 189.927†             1260.6      510.31 µg/L         4.970      510.31 ppb          4.970   0.97%
   QC value within limits for Sn 189.927  Recovery = 102.06%
Sr 421.552†            45116.1      531.57 µg/L         2.585      531.57 ppb          2.585   0.49%
   QC value within limits for Sr 421.552  Recovery = 106.31%
Ti 334.940†           259618.2      501.53 µg/L         1.173      501.53 ppb          1.173   0.23%
   QC value within limits for Ti 334.940  Recovery = 100.31%
Tl 190.801†              346.0      474.21 µg/L         7.274      474.21 ppb          7.274   1.53%
   QC value within limits for Tl 190.801  Recovery = 94.84%
U 367.007†              1611.5      474.63 µg/L        29.400      474.63 ppb         29.400   6.19%
   QC value within limits for U 367.007  Recovery = 94.93%
V 292.402†             69232.2      511.99 µg/L        10.222      511.99 ppb         10.222   2.00%
   QC value within limits for V 292.402  Recovery = 102.40%
Zn 213.857†            37660.0      496.03 µg/L        10.430      496.03 ppb         10.430   2.10%
   QC value within limits for Zn 213.857  Recovery = 99.21%
QC Failed.  Continue with analysis.
```

Sequence No.: 12 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 16:01:25**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20331.1	20331.1	94.6	%			16:02:12
1	Al 396.153Radial†	-78.7	13.1	23.412	µg/L	23.412	ppb	16:02:12
1	Ca 317.933Radial†	68.4	5.3	3.5827	µg/L	3.5827	ppb	16:02:32
1	Fe 238.204 Radial†	28.4	-0.5	-1.7870	µg/L	-1.7870	ppb	16:02:32
1	K 766.490 Radial†	596.4	-49.6	-64.854	µg/L	-64.854	ppb	16:02:12
1	Mg 279.077 IEC†	4.0	1.1	7.3974	µg/L	7.3974	ppb	16:02:32
1	Na 589.592 Radial†	2.4	44.4	42.724	µg/L	42.724	ppb	16:02:12
1	Sr 421.552†	40.1	4.4	0.0518	µg/L	0.0518	ppb	16:02:12
1	Sc 361.383	1155529.2	1155529.2	96.561	%			16:04:10
1	Y 371.029	685402.9	685402.9	97.004	%			16:04:10
1	Ag 328.068†	604.4	-20.2	-0.1294	µg/L	-0.1294	ppb	16:04:12
1	As 188.979†	-4.8	-2.2	-5.1028	µg/L	-5.1028	ppb	16:04:32
1	B 249.677†	359.3	116.9	1.4917	µg/L	1.4917	ppb	16:04:32
1	Ba 233.527†	-81.2	6.3	0.0916	µg/L	0.0916	ppb	16:04:32
1	Be 313.107†	-5955.1	622.5	0.2753	µg/L	0.2753	ppb	16:04:12
1	Cd 226.502†	-88.1	-1.4	-0.0222	µg/L	-0.0222	ppb	16:04:32
1	Co 228.616†	-110.9	-9.2	-0.2817	µg/L	-0.2817	ppb	16:04:32
1	Cr 267.716†	127.8	11.1	0.2216	µg/L	0.2216	ppb	16:04:32
1	Cu 324.752†	3647.7	-244.8	-1.7302	µg/L	-1.7302	ppb	16:04:12
1	Mn 257.610†	205.9	15.2	0.0458	µg/L	0.0458	ppb	16:04:32
1	Mo 202.031†	-11.6	-2.6	-0.3134	µg/L	-0.3134	ppb	16:04:32
1	Ni 231.604†	-19.2	17.9	0.5503	µg/L	0.5503	ppb	16:04:32
1	P 214.914†	-50.1	16.2	16.625	µg/L	16.625	ppb	16:04:32
1	Pb 220.353†	95.3	-9.7	-2.1884	µg/L	-2.1884	ppb	16:04:32
1	S 181.975 Axial†	27.2	3.5	11.958	µg/L	11.958	ppb	16:04:32
1	Sb 206.836†	6.9	0.6	0.3767	µg/L	0.3767	ppb	16:04:32
1	Se 196.026†	14.2	-2.1	-3.03	µg/L	-3.03	ppb	16:04:32
1	SiO2†	1717.2	-114.1	-21.532	µg/L	-21.532	ppb	16:04:32
1	Si 251.611†	334.9	-7.8	-0.2308	µg/L	-0.2308	ppb	16:04:32
1	Sn 189.927†	5.3	1.6	0.6548	µg/L	0.6548	ppb	16:04:32
1	Ti 334.940†	1236.9	-239.8	-0.4550	µg/L	-0.4550	ppb	16:04:12
1	Tl 190.801†	-11.6	3.8	5.2184	µg/L	5.2184	ppb	16:04:32
1	U 367.007†	259.1	-51.8	-16.189	µg/L	-16.189	ppb	16:04:12
1	V 292.402†	303.8	-31.1	-0.2388	µg/L	-0.2388	ppb	16:04:12
1	Zn 213.857†	511.9	5.5	0.0712	µg/L	0.0712	ppb	16:04:32
2	Sc RADIAL	20384.9	20384.9	94.9	%			16:02:52
2	Al 396.153Radial†	-81.6	10.2	18.175	µg/L	18.175	ppb	16:02:52
2	Ca 317.933Radial†	61.8	-1.8	-1.2274	µg/L	-1.2274	ppb	16:03:12
2	Fe 238.204 Radial†	28.7	-0.3	-0.9757	µg/L	-0.9757	ppb	16:03:12
2	K 766.490 Radial†	606.2	-41.0	-53.550	µg/L	-53.550	ppb	16:02:52
2	Mg 279.077 IEC†	5.7	2.8	19.376	µg/L	19.376	ppb	16:03:12
2	Na 589.592 Radial†	19.7	62.6	60.295	µg/L	60.295	ppb	16:02:52
2	Sr 421.552†	30.6	-5.7	-0.0673	µg/L	-0.0673	ppb	16:02:52
2	Sc 361.383	1147688.9	1147688.9	95.906	%			16:04:34
2	Y 371.029	680567.3	680567.3	96.320	%			16:04:34
2	Ag 328.068†	516.0	-108.2	-0.7541	µg/L	-0.7541	ppb	16:04:36
2	As 188.979†	-6.3	-3.9	-8.7960	µg/L	-8.7960	ppb	16:04:56
2	B 249.677†	363.7	124.0	1.5734	µg/L	1.5734	ppb	16:04:56
2	Ba 233.527†	-75.1	12.1	0.1753	µg/L	0.1753	ppb	16:04:56
2	Be 313.107†	-6003.1	530.3	0.2345	µg/L	0.2345	ppb	16:04:36
2	Cd 226.502†	-93.4	-7.6	-0.1223	µg/L	-0.1223	ppb	16:04:56
2	Co 228.616†	-106.2	-5.2	-0.1563	µg/L	-0.1563	ppb	16:04:56
2	Cr 267.716†	120.9	4.8	0.0992	µg/L	0.0992	ppb	16:04:56
2	Cu 324.752†	3647.0	-219.7	-1.5526	µg/L	-1.5526	ppb	16:04:36
2	Mn 257.610†	208.3	19.2	0.0577	µg/L	0.0577	ppb	16:04:56
2	Mo 202.031†	-5.1	4.1	0.4919	µg/L	0.4919	ppb	16:04:56
2	Ni 231.604†	-37.2	-1.1	-0.0335	µg/L	-0.0335	ppb	16:04:56
2	P 214.914†	-58.1	7.6	7.7925	µg/L	7.7925	ppb	16:04:56
2	Pb 220.353†	102.2	-1.8	-0.4051	µg/L	-0.4051	ppb	16:04:56

2	S 181.975 Axial†	19.2	-4.7	-16.104	µg/L	-16.104	ppb	16:04:56
2	Sb 206.836†	10.5	4.5	2.8487	µg/L	2.8487	ppb	16:04:56
2	Se 196.026†	14.2	-2.0	-2.82	µg/L	-2.82	ppb	16:04:56
2	SiO2†	1732.7	-85.8	-16.193	µg/L	-16.193	ppb	16:04:56
2	Si 251.611†	351.0	11.4	0.3350	µg/L	0.3350	ppb	16:04:56
2	Sn 189.927†	2.6	-1.2	-0.4738	µg/L	-0.4738	ppb	16:04:56
2	Ti 334.940†	1348.4	-114.8	-0.2154	µg/L	-0.2154	ppb	16:04:36
2	Tl 190.801†	-14.6	0.6	0.7908	µg/L	0.7908	ppb	16:04:56
2	U 367.007†	267.6	-41.2	-12.875	µg/L	-12.875	ppb	16:04:36
2	V 292.402†	292.0	-41.1	-0.3007	µg/L	-0.3007	ppb	16:04:36
2	Zn 213.857†	525.4	23.2	0.3086	µg/L	0.3086	ppb	16:04:56
3	Sc RADIAL	20390.0	20390.0	94.9	%			16:03:32
3	Al 396.153Radial†	-68.1	24.4	43.635	µg/L	43.635	ppb	16:03:32
3	Ca 317.933Radial†	73.7	10.6	7.1943	µg/L	7.1943	ppb	16:03:52
3	Fe 238.204 Radial†	29.2	0.2	0.8382	µg/L	0.8382	ppb	16:03:52
3	K 766.490 Radial†	611.2	-35.9	-46.880	µg/L	-46.880	ppb	16:03:32
3	Mg 279.077 IEC†	3.7	0.7	4.8888	µg/L	4.8888	ppb	16:03:52
3	Na 589.592 Radial†	7.4	49.7	47.851	µg/L	47.851	ppb	16:03:32
3	Sr 421.552†	50.8	15.5	0.1827	µg/L	0.1827	ppb	16:03:32
3	Sc 361.383	1165994.5	1165994.5	97.436	%			16:04:58
3	Y 371.029	691098.9	691098.9	97.810	%			16:04:58
3	Ag 328.068†	549.1	-82.6	-0.5850	µg/L	-0.5850	ppb	16:05:00
3	As 188.979†	-6.6	-4.1	-9.2867	µg/L	-9.2867	ppb	16:05:20
3	B 249.677†	338.1	91.8	1.1628	µg/L	1.1628	ppb	16:05:20
3	Ba 233.527†	-84.6	3.5	0.0516	µg/L	0.0516	ppb	16:05:20
3	Be 313.107†	-5729.5	909.4	0.4021	µg/L	0.4021	ppb	16:05:00
3	Cd 226.502†	-93.5	-6.1	-0.0988	µg/L	-0.0988	ppb	16:05:20
3	Co 228.616†	-95.5	7.6	0.2350	µg/L	0.2350	ppb	16:05:20
3	Cr 267.716†	150.0	32.7	0.6193	µg/L	0.6193	ppb	16:05:20
3	Cu 324.752†	3704.4	-220.5	-1.5508	µg/L	-1.5508	ppb	16:05:00
3	Mn 257.610†	238.4	46.6	0.1417	µg/L	0.1417	ppb	16:05:20
3	Mo 202.031†	-2.0	7.4	0.8918	µg/L	0.8918	ppb	16:05:20
3	Ni 231.604†	-15.0	22.4	0.6897	µg/L	0.6897	ppb	16:05:20
3	P 214.914†	-68.3	-1.9	-1.9501	µg/L	-1.9501	ppb	16:05:20
3	Pb 220.353†	90.2	-15.8	-3.5939	µg/L	-3.5939	ppb	16:05:20
3	S 181.975 Axial†	25.4	1.3	4.6039	µg/L	4.6039	ppb	16:05:20
3	Sb 206.836†	6.9	0.6	0.3598	µg/L	0.3598	ppb	16:05:20
3	Se 196.026†	15.2	-1.3	-1.83	µg/L	-1.83	ppb	16:05:20
3	SiO2†	1726.9	-120.1	-22.657	µg/L	-22.657	ppb	16:05:20
3	Si 251.611†	351.3	5.9	0.1659	µg/L	0.1659	ppb	16:05:20
3	Sn 189.927†	6.3	2.5	1.0257	µg/L	1.0257	ppb	16:05:20
3	Ti 334.940†	1240.7	-247.3	-0.4787	µg/L	-0.4787	ppb	16:05:00
3	Tl 190.801†	-16.0	-0.6	-0.8571	µg/L	-0.8571	ppb	16:05:20
3	U 367.007†	316.9	5.1	1.5732	µg/L	1.5732	ppb	16:05:00
3	V 292.402†	354.0	17.7	0.1426	µg/L	0.1426	ppb	16:05:00
3	Zn 213.857†	534.7	24.1	0.3169	µg/L	0.3169	ppb	16:05:20

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1156404.2	96.634	%	0.7675				0.79%
Sc RADIAL	20368.7	94.8	%	0.15				0.16%
Y 371.029	685689.7	97.044	%	0.7461				0.77%
Ag 328.068†	-70.3	-0.4895	µg/L	0.32310	-0.4895	ppb	0.32310	66.01%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	15.9	28.407	µg/L	13.4452	28.407	ppb	13.4452	47.33%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.4	-7.7285	µg/L	2.28714	-7.7285	ppb	2.28714	29.59%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	110.9	1.4093	µg/L	0.21734	1.4093	ppb	0.21734	15.42%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	7.3	0.1062	µg/L	0.06312	0.1062	ppb	0.06312	59.44%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	687.4	0.3040	µg/L	0.08741	0.3040	ppb	0.08741	28.76%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	4.7	3.1832	µg/L	4.22508	3.1832	ppb	4.22508	132.73%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-5.0	-0.0811	µg/L	0.05235	-0.0811	ppb	0.05235	64.54%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-2.3	-0.0677	µg/L	0.26951	-0.0677	ppb	0.26951	398.19%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               16.2      0.3134 µg/L       0.27193      0.3134 ppb        0.27193  86.78%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -228.3     -1.6112 µg/L       0.10309     -1.6112 ppb        0.10309   6.40%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.2     -0.6415 µg/L       1.34416     -0.6415 ppb        1.34416 209.53%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -42.2     -55.094 µg/L        9.0859     -55.094 ppb         9.0859  16.49%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            1.5      10.554 µg/L        7.7422      10.554 ppb         7.7422  73.36%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               27.0      0.0817 µg/L       0.05228      0.0817 ppb        0.05228  63.96%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                3.0      0.3567 µg/L       0.61385      0.3567 ppb        0.61385 172.08%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        52.2      50.290 µg/L        9.0360      50.290 ppb         9.0360  17.97%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               13.1      0.4022 µg/L       0.38371      0.4022 ppb        0.38371  95.41%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 7.3      7.4892 µg/L       9.29142      7.4892 ppb        9.29142 124.06%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -9.1     -2.0624 µg/L       1.59810     -2.0624 ppb        1.59810  77.49%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           0.0      0.1526 µg/L      14.55115      0.1526 ppb       14.55115 >999.9%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                1.9      1.1950 µg/L       1.43210      1.1950 ppb        1.43210 119.84%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -1.8       -2.56 µg/L         0.645       -2.56 ppb          0.645  25.19%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                   -106.7     -20.127 µg/L        3.4530     -20.127 ppb         3.4530  17.16%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                3.2      0.0901 µg/L       0.29044      0.0901 ppb        0.29044 322.53%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                1.0      0.4022 µg/L       0.78098      0.4022 ppb        0.78098 194.17%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                4.7      0.0557 µg/L       0.12504      0.0557 ppb        0.12504 224.47%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -200.6     -0.3831 µg/L       0.14568     -0.3831 ppb        0.14568  38.03%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                1.2      1.7174 µg/L       3.14196      1.7174 ppb        3.14196 182.95%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -29.3     -9.1636 µg/L       9.44479     -9.1636 ppb        9.44479 103.07%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -18.2     -0.1323 µg/L       0.24008     -0.1323 ppb        0.24008 181.45%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               17.6      0.2322 µg/L       0.13949      0.2322 ppb        0.13949  60.06%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 16 **Autosampler Location: 312**
Sample ID: 335304009|1339673|5 **Date Collected: 11/7/2013 16:15:03**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304009|1339673|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20922.2	20922.2	97.4	%			16:15:33
1	Al 396.153Radial†	164.6	265.2	485.22	µg/L	485.22	ppb	16:15:33
1	Ca 317.933Radial†	31777.9	32569.5	22057	µg/L	22057	ppb	16:15:33
1	Fe 238.204 Radial†	191.4	166.0	563.09	µg/L	563.09	ppb	16:15:53
1	K 766.490 Radial†	1226.2	579.4	754.32	µg/L	754.32	ppb	16:15:33
1	Mg 279.077 IEC†	1203.6	1232.9	8655.1	µg/L	8655.1	ppb	16:15:53
1	Na 589.592 Radial†	7456.4	7699.7	7413.3	µg/L	7413.3	ppb	16:15:33
1	Sr 421.552†	13923.1	14261.3	167.87	µg/L	167.87	ppb	16:15:33
1	Sc 361.383	1149417.2	1149417.2	96.051	%			16:16:54
1	Y 371.029	673683.4	673683.4	95.345	%			16:16:54
1	Ag 328.068†	638.5	18.6	-0.4521	µg/L	-0.4521	ppb	16:16:56
1	As 188.979†	-2.6	-0.0	-0.0054	µg/L	-0.0054	ppb	16:17:16
1	B 249.677†	2075.5	1905.6	21.376	µg/L	21.376	ppb	16:16:56
1	Ba 233.527†	4133.1	4393.4	64.094	µg/L	64.094	ppb	16:17:16
1	Be 313.107†	-5558.0	1003.2	0.4436	µg/L	0.4436	ppb	16:16:56
1	Cd 226.502†	-73.8	13.0	0.1368	µg/L	0.1368	ppb	16:17:16
1	Co 228.616†	-96.7	5.0	0.1718	µg/L	0.1718	ppb	16:17:16
1	Cr 267.716†	135.8	20.2	0.2917	µg/L	0.2917	ppb	16:17:16
1	Cu 324.752†	3492.4	-386.3	-2.5919	µg/L	-2.5919	ppb	16:16:56
1	Mn 257.610†	16118.3	16583.0	50.183	µg/L	50.183	ppb	16:16:56
1	Mo 202.031†	-15.6	-6.8	-0.5059	µg/L	-0.5059	ppb	16:17:16
1	Ni 231.604†	-16.4	20.7	0.6330	µg/L	0.6330	ppb	16:17:16
1	P 214.914†	-33.2	33.6	33.779	µg/L	33.779	ppb	16:17:16
1	Pb 220.353†	113.4	9.6	2.1853	µg/L	2.1853	ppb	16:17:16
1	S 181.975 Axial†	521.9	518.7	1782.4	µg/L	1782.4	ppb	16:17:16
1	Sb 206.836†	4.4	-1.9	-1.2140	µg/L	-1.2140	ppb	16:17:16
1	Se 196.026†	18.5	2.5	3.64	µg/L	3.64	ppb	16:17:16
1	SiO2†	26586.9	25787.7	4867.2	µg/L	4867.2	ppb	16:16:56
1	Si 251.611†	72997.9	75644.8	2274.4	µg/L	2274.4	ppb	16:16:56
1	Sn 189.927†	-9.8	-14.1	-3.6972	µg/L	-3.6972	ppb	16:17:16
1	Ti 334.940†	3274.4	1888.4	4.7671	µg/L	4.7671	ppb	16:16:56
1	Tl 190.801†	-15.4	-0.2	-0.5530	µg/L	-0.5530	ppb	16:17:16
1	U 367.007†	336.5	30.2	2.3047	µg/L	2.3047	ppb	16:16:56
1	V 292.402†	453.0	126.0	0.9967	µg/L	0.9967	ppb	16:16:56
1	Zn 213.857†	997.5	513.8	6.6006	µg/L	6.6006	ppb	16:17:16
2	Sc RADIAL	20277.1	20277.1	94.4	%			16:15:55
2	Al 396.153Radial†	156.2	261.7	478.95	µg/L	478.95	ppb	16:15:55
2	Ca 317.933Radial†	30919.0	32697.7	22144	µg/L	22144	ppb	16:15:55
2	Fe 238.204 Radial†	191.9	172.8	586.23	µg/L	586.23	ppb	16:16:15
2	K 766.490 Radial†	1123.5	510.6	664.36	µg/L	664.36	ppb	16:15:55
2	Mg 279.077 IEC†	1197.0	1265.2	8881.8	µg/L	8881.8	ppb	16:16:15
2	Na 589.592 Radial†	7319.2	7798.0	7507.9	µg/L	7507.9	ppb	16:15:55
2	Sr 421.552†	13682.1	14460.9	170.22	µg/L	170.22	ppb	16:15:55
2	Sc 361.383	1158267.8	1158267.8	96.790	%			16:17:18
2	Y 371.029	679069.1	679069.1	96.107	%			16:17:18
2	Ag 328.068†	633.9	8.7	-0.5437	µg/L	-0.5437	ppb	16:17:20
2	As 188.979†	-3.6	-1.0	-2.1145	µg/L	-2.1145	ppb	16:17:40
2	B 249.677†	2134.2	1949.8	21.878	µg/L	21.878	ppb	16:17:20
2	Ba 233.527†	4143.2	4371.0	63.767	µg/L	63.767	ppb	16:17:40
2	Be 313.107†	-5751.3	847.7	0.3748	µg/L	0.3748	ppb	16:17:20
2	Cd 226.502†	-74.4	13.0	0.1336	µg/L	0.1336	ppb	16:17:40
2	Co 228.616†	-87.5	15.2	0.4830	µg/L	0.4830	ppb	16:17:40
2	Cr 267.716†	157.2	41.2	0.6742	µg/L	0.6742	ppb	16:17:40
2	Cu 324.752†	3426.0	-482.7	-3.2546	µg/L	-3.2546	ppb	16:17:20
2	Mn 257.610†	16229.9	16570.1	50.136	µg/L	50.136	ppb	16:17:20
2	Mo 202.031†	-22.0	-13.3	-1.2771	µg/L	-1.2771	ppb	16:17:40
2	Ni 231.604†	-6.7	30.8	0.9450	µg/L	0.9450	ppb	16:17:40
2	P 214.914†	-29.5	37.6	37.869	µg/L	37.869	ppb	16:17:40
2	Pb 220.353†	109.6	4.8	1.0677	µg/L	1.0677	ppb	16:17:40

2	S 181.975 Axial†	521.9	514.5	1768.0	µg/L	1768.0	ppb	16:17:40
2	Sb 206.836†	13.8	7.7	4.9025	µg/L	4.9025	ppb	16:17:40
2	Se 196.026†	17.6	1.3	2.05	µg/L	2.05	ppb	16:17:40
2	SiO2†	26680.7	25673.1	4845.6	µg/L	4845.6	ppb	16:17:20
2	Si 251.611†	73001.8	75068.1	2257.1	µg/L	2257.1	ppb	16:17:20
2	Sn 189.927†	-26.9	-31.7	-10.806	µg/L	-10.806	ppb	16:17:40
2	Ti 334.940†	3610.6	2209.6	5.3798	µg/L	5.3798	ppb	16:17:20
2	Tl 190.801†	-17.9	-2.7	-4.0514	µg/L	-4.0514	ppb	16:17:40
2	U 367.007†	407.8	101.2	24.360	µg/L	24.360	ppb	16:17:20
2	V 292.402†	502.7	173.7	1.3517	µg/L	1.3517	ppb	16:17:20
2	Zn 213.857†	1002.2	510.8	6.5529	µg/L	6.5529	ppb	16:17:40
3	Sc RADIAL	20367.0	20367.0	94.8	%			16:16:17
3	Al 396.153Radial†	195.0	302.0	550.99	µg/L	550.99	ppb	16:16:17
3	Ca 317.933Radial†	31248.5	32900.7	22282	µg/L	22282	ppb	16:16:17
3	Fe 238.204 Radial†	187.5	167.3	567.40	µg/L	567.40	ppb	16:16:37
3	K 766.490 Radial†	1093.2	473.3	615.78	µg/L	615.78	ppb	16:16:17
3	Mg 279.077 IEC†	1181.2	1242.9	8725.5	µg/L	8725.5	ppb	16:16:37
3	Na 589.592 Radial†	7255.4	7696.5	7410.1	µg/L	7410.1	ppb	16:16:17
3	Sr 421.552†	13800.5	14521.7	170.94	µg/L	170.94	ppb	16:16:17
3	Sc 361.383	1153524.5	1153524.5	96.394	%			16:17:42
3	Y 371.029	676588.2	676588.2	95.756	%			16:17:42
3	Ag 328.068†	498.5	-129.0	-1.5063	µg/L	-1.5063	ppb	16:17:44
3	As 188.979†	-5.7	-3.2	-7.1883	µg/L	-7.1883	ppb	16:18:05
3	B 249.677†	2175.2	2001.3	22.610	µg/L	22.610	ppb	16:17:44
3	Ba 233.527†	4154.8	4400.6	64.199	µg/L	64.199	ppb	16:18:05
3	Be 313.107†	-5656.4	921.7	0.4076	µg/L	0.4076	ppb	16:17:44
3	Cd 226.502†	-86.3	0.3	-0.0684	µg/L	-0.0684	ppb	16:18:05
3	Co 228.616†	-107.3	-5.7	-0.1536	µg/L	-0.1536	ppb	16:18:05
3	Cr 267.716†	157.3	41.9	0.7002	µg/L	0.7002	ppb	16:18:05
3	Cu 324.752†	3462.0	-430.9	-2.9022	µg/L	-2.9022	ppb	16:17:44
3	Mn 257.610†	16198.3	16606.2	50.251	µg/L	50.251	ppb	16:17:44
3	Mo 202.031†	-17.2	-8.4	-0.6901	µg/L	-0.6901	ppb	16:18:05
3	Ni 231.604†	-14.2	23.0	0.7067	µg/L	0.7067	ppb	16:18:05
3	P 214.914†	-30.6	36.4	36.663	µg/L	36.663	ppb	16:18:05
3	Pb 220.353†	95.1	-9.8	-2.2216	µg/L	-2.2216	ppb	16:18:05
3	S 181.975 Axial†	515.9	510.4	1754.0	µg/L	1754.0	ppb	16:18:05
3	Sb 206.836†	7.0	0.7	0.4722	µg/L	0.4722	ppb	16:18:05
3	Se 196.026†	6.4	-10.2	-14.3	µg/L	-14.3	ppb	16:18:05
3	SiO2†	26707.8	25814.5	4872.3	µg/L	4872.3	ppb	16:17:44
3	Si 251.611†	72911.5	75284.6	2263.6	µg/L	2263.6	ppb	16:17:44
3	Sn 189.927†	-22.0	-26.7	-8.8044	µg/L	-8.8044	ppb	16:18:05
3	Ti 334.940†	3126.1	1722.4	4.4551	µg/L	4.4551	ppb	16:17:44
3	Tl 190.801†	-15.6	-0.4	-0.8371	µg/L	-0.8371	ppb	16:18:05
3	U 367.007†	353.2	46.3	7.2732	µg/L	7.2732	ppb	16:17:44
3	V 292.402†	459.4	130.9	1.0352	µg/L	1.0352	ppb	16:17:44
3	Zn 213.857†	982.1	494.2	6.3375	µg/L	6.3375	ppb	16:18:05

Mean Data: 335304009|1339673|5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1153736.5	96.411	%	0.3701				0.38%
Sc RADIAL	20522.1	95.5	%	1.63				1.70%
Y 371.029	676446.9	95.736	%	0.3815				0.40%
Ag 328.068†	-33.9	-0.8340	µg/L	0.58396	-0.8340	ppb	0.58396	70.02%
Al 396.153Radial†	276.3	505.05	µg/L	39.905	505.05	ppb	39.905	7.90%
As 188.979†	-1.4	-3.1027	µg/L	3.69200	-3.1027	ppb	3.69200	118.99%
B 249.677†	1952.2	21.954	µg/L	0.6207	21.954	ppb	0.6207	2.83%
Ba 233.527†	4388.3	64.020	µg/L	0.2251	64.020	ppb	0.2251	0.35%
Be 313.107†	924.2	0.4087	µg/L	0.03440	0.4087	ppb	0.03440	8.42%
Ca 317.933Radial†	32722.7	22161	µg/L	113.1	22161	ppb	113.1	0.51%
Cd 226.502†	8.8	0.0673	µg/L	0.11756	0.0673	ppb	0.11756	174.64%
Co 228.616†	4.8	0.1671	µg/L	0.31829	0.1671	ppb	0.31829	190.50%
Cr 267.716†	34.4	0.5554	µg/L	0.22874	0.5554	ppb	0.22874	41.18%
Cu 324.752†	-433.3	-2.9162	µg/L	0.33159	-2.9162	ppb	0.33159	11.37%
Fe 238.204 Radial†	168.7	572.24	µg/L	12.309	572.24	ppb	12.309	2.15%
K 766.490 Radial†	521.1	678.15	µg/L	70.296	678.15	ppb	70.296	10.37%
Mg 279.077 IEC†	1247.0	8754.1	µg/L	116.01	8754.1	ppb	116.01	1.33%
Mn 257.610†	16586.4	50.190	µg/L	0.0580	50.190	ppb	0.0580	0.12%
Mo 202.031†	-9.5	-0.8243	µg/L	0.40274	-0.8243	ppb	0.40274	48.86%
Na 589.592 Radial†	7731.4	7443.7	µg/L	55.54	7443.7	ppb	55.54	0.75%

Ni 231.604†	24.8	0.7616	µg/L	0.16306	0.7616	ppb	0.16306	21.41%
P 214.914†	35.9	36.104	µg/L	2.1016	36.104	ppb	2.1016	5.82%
Pb 220.353†	1.5	0.3438	µg/L	2.29093	0.3438	ppb	2.29093	666.36%
S 181.975 Axial†	514.5	1768.1	µg/L	14.19	1768.1	ppb	14.19	0.80%
Sb 206.836†	2.2	1.3869	µg/L	3.15919	1.3869	ppb	3.15919	227.78%
Se 196.026†	-2.1	-2.88	µg/L	9.938	-2.88	ppb	9.938	345.61%
SiO2†	25758.5	4861.7	µg/L	14.18	4861.7	ppb	14.18	0.29%
Si 251.611†	75332.5	2265.0	µg/L	8.75	2265.0	ppb	8.75	0.39%
Sn 189.927†	-24.2	-7.7691	µg/L	3.66560	-7.7691	ppb	3.66560	47.18%
Sr 421.552†	14414.7	169.68	µg/L	1.604	169.68	ppb	1.604	0.95%
Ti 334.940†	1940.1	4.8673	µg/L	0.47044	4.8673	ppb	0.47044	9.67%
Tl 190.801†	-1.1	-1.8138	µg/L	1.94299	-1.8138	ppb	1.94299	107.12%
U 367.007†	59.2	11.313	µg/L	11.5693	11.313	ppb	11.5693	102.27%
V 292.402†	143.5	1.1279	µg/L	0.19477	1.1279	ppb	0.19477	17.27%
Zn 213.857†	506.3	6.4970	µg/L	0.14016	6.4970	ppb	0.14016	2.16%

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Analysis Begun

Start Time: 11/7/2013 16:21:17 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110713.sif
Batch ID:
Results Data Set: 110713
Results Library: C:\pe\optima4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 311**
Sample ID: 335304007|1339673|20 **Date Collected: 11/7/2013 16:21:20**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304007|1339673|20

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20718.3	20718.3	96.4	%			16:21:53
1	Al 396.153Radial†	-81.5	11.7	28.486	µg/L	28.486	ppb	16:22:13
1	Ca 317.933Radial†	21063.0	21778.1	14749	µg/L	14749	ppb	16:21:53
1	Fe 238.204 Radial†	565.1	555.5	1884.4	µg/L	1884.4	ppb	16:22:13
1	K 766.490 Radial†	1632.2	1012.8	1311.1	µg/L	1311.1	ppb	16:21:53
1	Mg 279.077 IEC†	657.9	679.2	4767.9	µg/L	4767.9	ppb	16:22:13
1	Na 589.592 Radial†	28910.8	30026.1	28909	µg/L	28909	ppb	16:21:53
1	Sr 421.552†	4228.3	4347.3	51.110	µg/L	51.110	ppb	16:21:53
1	Sc 361.383	1171857.6	1171857.6	97.926	%			16:23:14
1	Y 371.029	683342.8	683342.8	96.712	%			16:23:14
1	Ag 328.068†	726.6	95.9	0.2556	µg/L	0.2556	ppb	16:23:16
1	As 188.979†	-7.7	-5.1	-11.305	µg/L	-11.305	ppb	16:23:36
1	B 249.677†	6309.6	6188.0	69.661	µg/L	69.661	ppb	16:23:16
1	Ba 233.527†	8012.0	8272.1	120.66	µg/L	120.66	ppb	16:23:16
1	Be 313.107†	-5923.6	740.6	0.3275	µg/L	0.3275	ppb	16:23:16
1	Cd 226.502†	-86.2	1.8	-0.2165	µg/L	-0.2165	ppb	16:23:36
1	Co 228.616†	-94.7	8.9	0.3200	µg/L	0.3200	ppb	16:23:36
1	Cr 267.716†	128.7	10.2	0.1861	µg/L	0.1861	ppb	16:23:36
1	Cu 324.752†	3639.4	-305.9	-1.8516	µg/L	-1.8516	ppb	16:23:16
1	Mn 257.610†	11343.0	11385.3	34.532	µg/L	34.532	ppb	16:23:16
1	Mo 202.031†	-22.0	-13.1	-1.3718	µg/L	-1.3718	ppb	16:23:36
1	Ni 231.604†	14.3	52.3	1.6019	µg/L	1.6019	ppb	16:23:36
1	P 214.914†	-25.7	41.9	40.396	µg/L	40.396	ppb	16:23:36
1	Pb 220.353†	99.8	-6.5	-1.5418	µg/L	-1.5418	ppb	16:23:36
1	S 181.975 Axial†	54.5	30.9	104.50	µg/L	104.50	ppb	16:23:36
1	Sb 206.836†	9.4	3.1	2.0101	µg/L	2.0101	ppb	16:23:36
1	Se 196.026†	14.8	-1.7	-1.76	µg/L	-1.76	ppb	16:23:36
1	SiO2†	11926.0	10286.2	1941.4	µg/L	1941.4	ppb	16:23:16
1	Si 251.611†	30179.4	30464.0	916.16	µg/L	916.16	ppb	16:23:16
1	Sn 189.927†	-12.0	-16.2	-5.1990	µg/L	-5.1990	ppb	16:23:36
1	Ti 334.940†	768.2	-736.3	-0.6803	µg/L	-0.6803	ppb	16:23:16
1	Tl 190.801†	-15.7	-0.2	-0.5763	µg/L	-0.5763	ppb	16:23:36
1	U 367.007†	395.6	83.8	13.841	µg/L	13.841	ppb	16:23:16
1	V 292.402†	359.3	21.2	0.4401	µg/L	0.4401	ppb	16:23:16
1	Zn 213.857†	699.5	189.7	2.2300	µg/L	2.2300	ppb	16:23:36
2	Sc RADIAL	20630.4	20630.4	96.0	%			16:22:15
2	Al 396.153Radial†	-83.6	9.1	23.860	µg/L	23.860	ppb	16:22:35
2	Ca 317.933Radial†	21138.1	21949.3	14865	µg/L	14865	ppb	16:22:15
2	Fe 238.204 Radial†	556.3	548.9	1861.9	µg/L	1861.9	ppb	16:22:35
2	K 766.490 Radial†	1648.2	1036.7	1342.2	µg/L	1342.2	ppb	16:22:15
2	Mg 279.077 IEC†	656.1	680.1	4774.6	µg/L	4774.6	ppb	16:22:35
2	Na 589.592 Radial†	28713.8	29948.6	28834	µg/L	28834	ppb	16:22:15
2	Sr 421.552†	4234.9	4372.8	51.410	µg/L	51.410	ppb	16:22:15
2	Sc 361.383	1191991.9	1191991.9	99.608	%			16:23:38
2	Y 371.029	694859.5	694859.5	98.342	%			16:23:38
2	Ag 328.068†	704.4	61.0	0.0285	µg/L	0.0285	ppb	16:23:40
2	As 188.979†	-5.1	-2.4	-5.1353	µg/L	-5.1353	ppb	16:24:00

2	B 249.677†	6074.7	5843.3	65.428	µg/L	65.428	ppb	16:23:40
2	Ba 233.527†	7700.5	7821.2	114.09	µg/L	114.09	ppb	16:23:40
2	Be 313.107†	-5835.3	931.5	0.4119	µg/L	0.4119	ppb	16:23:40
2	Cd 226.502†	-78.4	11.1	-0.0639	µg/L	-0.0639	ppb	16:24:00
2	Co 228.616†	-94.6	10.6	0.3687	µg/L	0.3687	ppb	16:24:00
2	Cr 267.716†	125.5	4.8	0.0988	µg/L	0.0988	ppb	16:24:00
2	Cu 324.752†	3443.1	-565.7	-3.6951	µg/L	-3.6951	ppb	16:23:40
2	Mn 257.610†	11072.3	10917.8	33.108	µg/L	33.108	ppb	16:23:40
2	Mo 202.031†	-20.6	-11.3	-1.1547	µg/L	-1.1547	ppb	16:24:00
2	Ni 231.604†	-16.5	21.1	0.6411	µg/L	0.6411	ppb	16:24:00
2	P 214.914†	-14.5	53.6	52.383	µg/L	52.383	ppb	16:24:00
2	Pb 220.353†	107.7	-0.3	-0.1175	µg/L	-0.1175	ppb	16:24:00
2	S 181.975 Axial†	62.7	38.2	129.77	µg/L	129.77	ppb	16:24:00
2	Sb 206.836†	12.6	6.1	3.9257	µg/L	3.9257	ppb	16:24:00
2	Se 196.026†	19.2	2.5	4.13	µg/L	4.13	ppb	16:24:00
2	SiO2†	11600.8	9754.0	1841.0	µg/L	1841.0	ppb	16:23:40
2	Si 251.611†	29496.2	29257.5	879.88	µg/L	879.88	ppb	16:23:40
2	Sn 189.927†	-16.1	-20.1	-6.7785	µg/L	-6.7785	ppb	16:24:00
2	Ti 334.940†	849.5	-667.9	-0.5290	µg/L	-0.5290	ppb	16:23:40
2	Tl 190.801†	-8.4	7.3	9.9303	µg/L	9.9303	ppb	16:24:00
2	U 367.007†	322.4	3.4	-11.179	µg/L	-11.179	ppb	16:23:40
2	V 292.402†	363.0	18.8	0.4065	µg/L	0.4065	ppb	16:23:40
2	Zn 213.857†	705.9	184.0	2.1645	µg/L	2.1645	ppb	16:24:00
3	Sc RADIAL	20592.5	20592.5	95.8	%			16:22:37
3	Al 396.153Radial†	-80.7	12.0	29.085	µg/L	29.085	ppb	16:22:57
3	Ca 317.933Radial†	21064.9	21913.4	14841	µg/L	14841	ppb	16:22:37
3	Fe 238.204 Radial†	558.3	552.1	1872.7	µg/L	1872.7	ppb	16:22:57
3	K 766.490 Radial†	1643.2	1034.6	1339.7	µg/L	1339.7	ppb	16:22:37
3	Mg 279.077 IEC†	659.3	684.7	4806.9	µg/L	4806.9	ppb	16:22:57
3	Na 589.592 Radial†	28527.0	29808.7	28700	µg/L	28700	ppb	16:22:37
3	Sr 421.552†	4158.0	4300.7	50.560	µg/L	50.560	ppb	16:22:37
3	Sc 361.383	1179400.3	1179400.3	98.556	%			16:24:02
3	Y 371.029	687646.4	687646.4	97.321	%			16:24:02
3	Ag 328.068†	740.5	105.2	0.3168	µg/L	0.3168	ppb	16:24:05
3	As 188.979†	-2.9	-0.2	-0.2300	µg/L	-0.2300	ppb	16:24:25
3	B 249.677†	6257.1	6093.5	68.513	µg/L	68.513	ppb	16:24:05
3	Ba 233.527†	7823.0	8028.0	117.10	µg/L	117.10	ppb	16:24:05
3	Be 313.107†	-5999.2	702.6	0.3107	µg/L	0.3107	ppb	16:24:05
3	Cd 226.502†	-84.9	3.7	-0.1840	µg/L	-0.1840	ppb	16:24:25
3	Co 228.616†	-93.1	11.1	0.3854	µg/L	0.3854	ppb	16:24:25
3	Cr 267.716†	125.1	5.7	0.0975	µg/L	0.0975	ppb	16:24:25
3	Cu 324.752†	3548.5	-421.9	-2.6683	µg/L	-2.6683	ppb	16:24:05
3	Mn 257.610†	11188.1	11154.0	33.826	µg/L	33.826	ppb	16:24:05
3	Mo 202.031†	-23.0	-13.9	-1.4735	µg/L	-1.4735	ppb	16:24:25
3	Ni 231.604†	-5.3	32.3	0.9857	µg/L	0.9857	ppb	16:24:25
3	P 214.914†	-26.9	40.8	39.335	µg/L	39.335	ppb	16:24:25
3	Pb 220.353†	102.4	-4.6	-1.1046	µg/L	-1.1046	ppb	16:24:25
3	S 181.975 Axial†	56.0	32.1	108.63	µg/L	108.63	ppb	16:24:25
3	Sb 206.836†	0.5	-6.0	-3.7740	µg/L	-3.7740	ppb	16:24:25
3	Se 196.026†	15.0	-1.6	-1.62	µg/L	-1.62	ppb	16:24:25
3	SiO2†	11747.0	10026.6	1892.4	µg/L	1892.4	ppb	16:24:05
3	Si 251.611†	29520.4	29598.2	890.12	µg/L	890.12	ppb	16:24:05
3	Sn 189.927†	-14.9	-19.0	-6.3398	µg/L	-6.3398	ppb	16:24:25
3	Ti 334.940†	848.9	-659.3	-0.5282	µg/L	-0.5282	ppb	16:24:05
3	Tl 190.801†	-11.2	4.4	5.8904	µg/L	5.8904	ppb	16:24:25
3	U 367.007†	406.4	92.2	16.519	µg/L	16.519	ppb	16:24:05
3	V 292.402†	354.8	14.3	0.3880	µg/L	0.3880	ppb	16:24:05
3	Zn 213.857†	707.0	192.7	2.2751	µg/L	2.2751	ppb	16:24:25

Mean Data: 335304007|1339673|20

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1181083.3	98.697	%	0.8500				0.86%
Sc RADIAL	20647.1	96.1	%	0.30				0.31%
Y 371.029	688616.2	97.459	%	0.8236				0.85%
Ag 328.068†	87.4	0.2003	µg/L	0.15187	0.2003	ppb	0.15187	75.82%
Al 396.153Radial†	11.0	27.144	µg/L	2.8592	27.144	ppb	2.8592	10.53%
As 188.979†	-2.6	-5.5567	µg/L	5.54940	-5.5567	ppb	5.54940	99.87%
B 249.677†	6041.6	67.867	µg/L	2.1892	67.867	ppb	2.1892	3.23%
Ba 233.527†	8040.4	117.28	µg/L	3.293	117.28	ppb	3.293	2.81%

Be 313.107†	791.6	0.3500	µg/L	0.05423	0.3500	ppb	0.05423	15.49%
Ca 317.933Radial†	21880.2	14818	µg/L	61.2	14818	ppb	61.2	0.41%
Cd 226.502†	5.5	-0.1548	µg/L	0.08035	-0.1548	ppb	0.08035	51.91%
Co 228.616†	10.2	0.3580	µg/L	0.03397	0.3580	ppb	0.03397	9.49%
Cr 267.716†	6.9	0.1274	µg/L	0.05078	0.1274	ppb	0.05078	39.85%
Cu 324.752†	-431.2	-2.7383	µg/L	0.92372	-2.7383	ppb	0.92372	33.73%
Fe 238.204 Radial†	552.1	1873.0	µg/L	11.23	1873.0	ppb	11.23	0.60%
K 766.490 Radial†	1028.0	1331.0	µg/L	17.29	1331.0	ppb	17.29	1.30%
Mg 279.077 IEC†	681.3	4783.2	µg/L	20.86	4783.2	ppb	20.86	0.44%
Mn 257.610†	11152.3	33.822	µg/L	0.7121	33.822	ppb	0.7121	2.11%
Mo 202.031†	-12.7	-1.3333	µg/L	0.16286	-1.3333	ppb	0.16286	12.21%
Na 589.592 Radial†	29927.8	28814	µg/L	106.1	28814	ppb	106.1	0.37%
Ni 231.604†	35.3	1.0762	µg/L	0.48675	1.0762	ppb	0.48675	45.23%
P 214.914†	45.4	44.038	µg/L	7.2463	44.038	ppb	7.2463	16.45%
Pb 220.353†	-3.8	-0.9213	µg/L	0.72967	-0.9213	ppb	0.72967	79.20%
S 181.975 Axial†	33.8	114.30	µg/L	13.556	114.30	ppb	13.556	11.86%
Sb 206.836†	1.1	0.7206	µg/L	4.00855	0.7206	ppb	4.00855	556.25%
Se 196.026†	-0.3	0.249	µg/L	3.3583	0.249	ppb	3.3583	>999.9%
SiO2†	10022.3	1891.6	µg/L	50.23	1891.6	ppb	50.23	2.66%
Si 251.611†	29773.2	895.39	µg/L	18.703	895.39	ppb	18.703	2.09%
Sn 189.927†	-18.4	-6.1058	µg/L	0.81534	-6.1058	ppb	0.81534	13.35%
Sr 421.552†	4340.3	51.027	µg/L	0.4310	51.027	ppb	0.4310	0.84%
Ti 334.940†	-687.8	-0.5792	µg/L	0.08757	-0.5792	ppb	0.08757	15.12%
Tl 190.801†	3.8	5.0815	µg/L	5.29980	5.0815	ppb	5.29980	104.30%
U 367.007†	59.8	6.3940	µg/L	15.27704	6.3940	ppb	15.27704	238.93%
V 292.402†	18.1	0.4115	µg/L	0.02644	0.4115	ppb	0.02644	6.43%
Zn 213.857†	188.8	2.2232	µg/L	0.05561	2.2232	ppb	0.05561	2.50%

Sequence No.: 2
Sample ID: 335304010|1339673|5
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 313
Date Collected: 11/7/2013 16:24:33
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304010|1339673|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20544.0	20544.0	95.6	%			16:25:06
1	Al 396.153Radial†	-65.8	27.5	60.114	µg/L	60.114	ppb	16:25:06
1	Ca 317.933Radial†	31356.5	32729.6	22166	µg/L	22166	ppb	16:25:06
1	Fe 238.204 Radial†	80.4	53.6	181.68	µg/L	181.68	ppb	16:25:26
1	K 766.490 Radial†	1159.0	532.2	692.52	µg/L	692.52	ppb	16:25:06
1	Mg 279.077 IEC†	1217.7	1270.5	8918.6	µg/L	8918.6	ppb	16:25:26
1	Na 589.592 Radial†	7855.4	8258.1	7950.8	µg/L	7950.8	ppb	16:25:06
1	Sr 421.552†	13896.3	14496.6	170.64	µg/L	170.64	ppb	16:25:06
1	Sc 361.383	1174072.7	1174072.7	98.111	%			16:26:28
1	Y 371.029	687171.7	687171.7	97.254	%			16:26:28
1	Ag 328.068†	590.0	-44.8	-0.9205	µg/L	-0.9205	ppb	16:26:30
1	As 188.979†	-7.2	-4.7	-10.588	µg/L	-10.588	ppb	16:26:50
1	B 249.677†	1975.1	1757.9	20.993	µg/L	20.993	ppb	16:26:30
1	Ba 233.527†	4369.0	4543.6	66.285	µg/L	66.285	ppb	16:26:50
1	Be 313.107†	-6319.6	348.4	0.1540	µg/L	0.1540	ppb	16:26:30
1	Cd 226.502†	-108.3	-20.6	-0.3560	µg/L	-0.3560	ppb	16:26:50
1	Co 228.616†	-94.4	9.4	0.3223	µg/L	0.3223	ppb	16:26:50
1	Cr 267.716†	141.9	23.4	0.3259	µg/L	0.3259	ppb	16:26:50
1	Cu 324.752†	3553.4	-400.5	-2.7348	µg/L	-2.7348	ppb	16:26:30
1	Mn 257.610†	13970.0	14041.0	42.424	µg/L	42.424	ppb	16:26:30
1	Mo 202.031†	-16.1	-7.0	-0.5259	µg/L	-0.5259	ppb	16:26:50
1	Ni 231.604†	-29.9	7.2	0.2213	µg/L	0.2213	ppb	16:26:50
1	P 214.914†	-60.0	7.0	6.9730	µg/L	6.9730	ppb	16:26:50
1	Pb 220.353†	96.4	-10.2	-2.3415	µg/L	-2.3415	ppb	16:26:50
1	S 181.975 Axial†	545.6	531.4	1826.2	µg/L	1826.2	ppb	16:26:50
1	Sb 206.836†	4.6	-1.8	-1.1784	µg/L	-1.1784	ppb	16:26:50
1	Se 196.026†	21.2	4.7	6.73	µg/L	6.73	ppb	16:26:50
1	SiO2†	20654.0	19159.2	3616.1	µg/L	3616.1	ppb	16:26:30
1	Si 251.611†	55604.7	56320.7	1693.3	µg/L	1693.3	ppb	16:26:30
1	Sn 189.927†	-24.0	-28.4	-9.4883	µg/L	-9.4883	ppb	16:26:50
1	Ti 334.940†	924.6	-578.3	-0.0054	µg/L	-0.0054	ppb	16:26:30
1	Tl 190.801†	-13.1	2.5	3.1372	µg/L	3.1372	ppb	16:26:50
1	U 367.007†	402.7	90.3	23.020	µg/L	23.020	ppb	16:26:30
1	V 292.402†	299.6	-40.3	-0.2578	µg/L	-0.2578	ppb	16:26:30
1	Zn 213.857†	754.0	243.9	3.0501	µg/L	3.0501	ppb	16:26:50
2	Sc RADIAL	20729.6	20729.6	96.5	%			16:25:28
2	Al 396.153Radial†	-33.7	61.3	120.60	µg/L	120.60	ppb	16:25:28
2	Ca 317.933Radial†	31801.7	32897.6	22280	µg/L	22280	ppb	16:25:28
2	Fe 238.204 Radial†	78.4	50.7	172.09	µg/L	172.09	ppb	16:25:48
2	K 766.490 Radial†	1085.5	445.2	578.86	µg/L	578.86	ppb	16:25:28
2	Mg 279.077 IEC†	1217.0	1258.2	8832.9	µg/L	8832.9	ppb	16:25:48
2	Na 589.592 Radial†	7910.4	8241.6	7934.9	µg/L	7934.9	ppb	16:25:28
2	Sr 421.552†	14096.2	14573.6	171.55	µg/L	171.55	ppb	16:25:28
2	Sc 361.383	1174426.8	1174426.8	98.140	%			16:26:52
2	Y 371.029	687054.8	687054.8	97.238	%			16:26:52
2	Ag 328.068†	629.2	-5.0	-0.6283	µg/L	-0.6283	ppb	16:26:54
2	As 188.979†	-9.2	-6.7	-15.158	µg/L	-15.158	ppb	16:27:14
2	B 249.677†	1891.2	1671.8	19.999	µg/L	19.999	ppb	16:26:54
2	Ba 233.527†	4349.3	4522.1	65.973	µg/L	65.973	ppb	16:27:14
2	Be 313.107†	-6008.6	667.2	0.2950	µg/L	0.2950	ppb	16:26:54
2	Cd 226.502†	-90.4	-2.2	-0.0583	µg/L	-0.0583	ppb	16:27:14
2	Co 228.616†	-98.3	5.4	0.2012	µg/L	0.2012	ppb	16:27:14
2	Cr 267.716†	132.8	14.1	0.1595	µg/L	0.1595	ppb	16:27:14
2	Cu 324.752†	3425.1	-532.4	-3.6710	µg/L	-3.6710	ppb	16:26:54
2	Mn 257.610†	13616.8	13676.8	41.319	µg/L	41.319	ppb	16:26:54
2	Mo 202.031†	-12.0	-2.8	-0.0278	µg/L	-0.0278	ppb	16:27:14
2	Ni 231.604†	-19.7	17.7	0.5440	µg/L	0.5440	ppb	16:27:14
2	P 214.914†	-59.6	7.4	7.3693	µg/L	7.3693	ppb	16:27:14
2	Pb 220.353†	103.2	-3.3	-0.7682	µg/L	-0.7682	ppb	16:27:14

2	S 181.975 Axial†	532.3	517.7	1779.1	µg/L	1779.1	ppb	16:27:14
2	Sb 206.836†	10.6	4.3	2.7044	µg/L	2.7044	ppb	16:27:14
2	Se 196.026†	14.7	-1.9	-2.64	µg/L	-2.64	ppb	16:27:14
2	SiO2†	20031.3	18518.4	3495.2	µg/L	3495.2	ppb	16:26:54
2	Si 251.611†	53750.4	54414.2	1636.0	µg/L	1636.0	ppb	16:26:54
2	Sn 189.927†	-16.1	-20.3	-6.1895	µg/L	-6.1895	ppb	16:27:14
2	Ti 334.940†	703.3	-804.1	-0.4282	µg/L	-0.4282	ppb	16:26:54
2	Tl 190.801†	-16.7	-1.2	-2.0570	µg/L	-2.0570	ppb	16:27:14
2	U 367.007†	360.2	46.9	9.4722	µg/L	9.4722	ppb	16:26:54
2	V 292.402†	356.9	18.0	0.1634	µg/L	0.1634	ppb	16:26:54
2	Zn 213.857†	748.0	237.5	2.9670	µg/L	2.9670	ppb	16:27:14
3	Sc RADIAL	20438.1	20438.1	95.1	%			16:25:50
3	Al 396.153Radial†	-44.4	49.6	99.827	µg/L	99.827	ppb	16:25:50
3	Ca 317.933Radial†	31547.0	33099.9	22417	µg/L	22417	ppb	16:25:50
3	Fe 238.204 Radial†	81.4	55.0	186.71	µg/L	186.71	ppb	16:26:10
3	K 766.490 Radial†	1107.3	484.2	629.69	µg/L	629.69	ppb	16:25:50
3	Mg 279.077 IEC†	1219.2	1278.5	8975.4	µg/L	8975.4	ppb	16:26:10
3	Na 589.592 Radial†	7784.0	8225.6	7919.6	µg/L	7919.6	ppb	16:25:50
3	Sr 421.552†	13965.6	14644.7	172.39	µg/L	172.39	ppb	16:25:50
3	Sc 361.383	1178884.6	1178884.6	98.513	%			16:27:16
3	Y 371.029	689355.6	689355.6	97.563	%			16:27:16
3	Ag 328.068†	711.3	75.9	-0.0649	µg/L	-0.0649	ppb	16:27:18
3	As 188.979†	-7.1	-4.5	-10.270	µg/L	-10.270	ppb	16:27:38
3	B 249.677†	2008.8	1783.9	21.322	µg/L	21.322	ppb	16:27:18
3	Ba 233.527†	4298.1	4453.3	64.969	µg/L	64.969	ppb	16:27:38
3	Be 313.107†	-6169.1	527.4	0.2332	µg/L	0.2332	ppb	16:27:18
3	Cd 226.502†	-104.6	-16.3	-0.2875	µg/L	-0.2875	ppb	16:27:38
3	Co 228.616†	-110.7	-6.7	-0.1717	µg/L	-0.1717	ppb	16:27:38
3	Cr 267.716†	119.4	-0.0	-0.1115	µg/L	-0.1115	ppb	16:27:38
3	Cu 324.752†	3550.3	-418.5	-2.8651	µg/L	-2.8651	ppb	16:27:18
3	Mn 257.610†	13774.8	13784.6	41.642	µg/L	41.642	ppb	16:27:18
3	Mo 202.031†	-21.0	-11.9	-1.1093	µg/L	-1.1093	ppb	16:27:38
3	Ni 231.604†	-15.7	21.8	0.6702	µg/L	0.6702	ppb	16:27:38
3	P 214.914†	-46.0	21.5	21.778	µg/L	21.778	ppb	16:27:38
3	Pb 220.353†	97.8	-9.2	-2.1106	µg/L	-2.1106	ppb	16:27:38
3	S 181.975 Axial†	523.1	506.2	1739.7	µg/L	1739.7	ppb	16:27:38
3	Sb 206.836†	8.3	1.9	1.2198	µg/L	1.2198	ppb	16:27:38
3	Se 196.026†	14.5	-2.1	-2.97	µg/L	-2.97	ppb	16:27:38
3	SiO2†	20213.6	18626.3	3515.5	µg/L	3515.5	ppb	16:27:18
3	Si 251.611†	54344.2	54809.9	1647.9	µg/L	1647.9	ppb	16:27:18
3	Sn 189.927†	-21.3	-25.6	-8.3176	µg/L	-8.3176	ppb	16:27:38
3	Ti 334.940†	737.2	-772.4	-0.3620	µg/L	-0.3620	ppb	16:27:18
3	Tl 190.801†	-17.9	-2.3	-3.5875	µg/L	-3.5875	ppb	16:27:38
3	U 367.007†	372.1	57.5	12.699	µg/L	12.699	ppb	16:27:18
3	V 292.402†	308.4	-32.6	-0.2146	µg/L	-0.2146	ppb	16:27:18
3	Zn 213.857†	751.1	237.8	2.9652	µg/L	2.9652	ppb	16:27:38

Mean Data: 335304010|1339673|5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1175794.7	98.255	%	0.2241				0.23%
Sc RADIAL	20570.6	95.7	%	0.69				0.72%
Y 371.029	687860.7	97.352	%	0.1834				0.19%
Ag 328.068†	8.7	-0.5379	µg/L	0.43491	-0.5379	ppb	0.43491	80.85%
Al 396.153Radial†	46.1	93.512	µg/L	30.7312	93.512	ppb	30.7312	32.86%
As 188.979†	-5.3	-12.005	µg/L	2.7351	-12.005	ppb	2.7351	22.78%
B 249.677†	1737.9	20.771	µg/L	0.6890	20.771	ppb	0.6890	3.32%
Ba 233.527†	4506.3	65.742	µg/L	0.6879	65.742	ppb	0.6879	1.05%
Be 313.107†	514.3	0.2274	µg/L	0.07067	0.2274	ppb	0.07067	31.07%
Ca 317.933Radial†	32909.0	22287	µg/L	125.6	22287	ppb	125.6	0.56%
Cd 226.502†	-13.0	-0.2339	µg/L	0.15590	-0.2339	ppb	0.15590	66.64%
Co 228.616†	2.7	0.1173	µg/L	0.25746	0.1173	ppb	0.25746	219.54%
Cr 267.716†	12.5	0.1246	µg/L	0.22075	0.1246	ppb	0.22075	177.12%
Cu 324.752†	-450.5	-3.0903	µg/L	0.50711	-3.0903	ppb	0.50711	16.41%
Fe 238.204 Radial†	53.1	180.16	µg/L	7.430	180.16	ppb	7.430	4.12%
K 766.490 Radial†	487.2	633.69	µg/L	56.937	633.69	ppb	56.937	8.98%
Mg 279.077 IEC†	1269.1	8908.9	µg/L	71.75	8908.9	ppb	71.75	0.81%
Mn 257.610†	13834.1	41.795	µg/L	0.5686	41.795	ppb	0.5686	1.36%
Mo 202.031†	-7.2	-0.5543	µg/L	0.54132	-0.5543	ppb	0.54132	97.65%
Na 589.592 Radial†	8241.7	7935.1	µg/L	15.63	7935.1	ppb	15.63	0.20%

Ni 231.604†	15.6	0.4785	µg/L	0.23150	0.4785	ppb	0.23150	48.38%
P 214.914†	11.9	12.040	µg/L	8.4358	12.040	ppb	8.4358	70.06%
Pb 220.353†	-7.6	-1.7401	µg/L	0.84960	-1.7401	ppb	0.84960	48.82%
S 181.975 Axial†	518.4	1781.7	µg/L	43.31	1781.7	ppb	43.31	2.43%
Sb 206.836†	1.5	0.9153	µg/L	1.95920	0.9153	ppb	1.95920	214.05%
Se 196.026†	0.2	0.372	µg/L	5.5046	0.372	ppb	5.5046	>999.9%
SiO2†	18768.0	3542.3	µg/L	64.76	3542.3	ppb	64.76	1.83%
Si 251.611†	55181.6	1659.1	µg/L	30.25	1659.1	ppb	30.25	1.82%
Sn 189.927†	-24.8	-7.9985	µg/L	1.67241	-7.9985	ppb	1.67241	20.91%
Sr 421.552†	14571.6	171.53	µg/L	0.872	171.53	ppb	0.872	0.51%
Ti 334.940†	-718.3	-0.2652	µg/L	0.22744	-0.2652	ppb	0.22744	85.76%
Tl 190.801†	-0.4	-0.8358	µg/L	3.52479	-0.8358	ppb	3.52479	421.75%
U 367.007†	64.9	15.064	µg/L	7.0766	15.064	ppb	7.0766	46.98%
V 292.402†	-18.3	-0.1030	µg/L	0.23173	-0.1030	ppb	0.23173	225.04%
Zn 213.857†	239.8	2.9941	µg/L	0.04852	2.9941	ppb	0.04852	1.62%

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Sequence No.: 4 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 16:31:51**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20287.5	20287.5	94.4	%			16:32:23
1	Al 396.153Radial†	3388.1	3684.8	6585.4	µg/L	6585.4	ppb	16:32:43
1	Ca 317.933Radial†	7125.8	7480.4	5065.2	µg/L	5065.2	ppb	16:32:43
1	Fe 238.204 Radial†	1469.1	1525.5	5159.5	µg/L	5159.5	ppb	16:32:43
1	K 766.490 Radial†	4710.8	4309.5	5633.3	µg/L	5633.3	ppb	16:32:23
1	Mg 279.077 IEC†	724.3	764.0	5363.9	µg/L	5363.9	ppb	16:32:43
1	Na 589.592 Radial†	14994.6	15923.5	15331	µg/L	15331	ppb	16:32:23
1	Sr 421.552†	42398.5	44868.5	528.65	µg/L	528.65	ppb	16:32:23
1	Sc 361.383	1122079.1	1122079.1	93.766	%			16:33:45
1	Y 371.029	651936.5	651936.5	92.267	%			16:33:45
1	Ag 328.068†	68510.6	72419.3	513.40	µg/L	513.40	ppb	16:33:47
1	As 188.979†	191.1	206.5	477.25	µg/L	477.25	ppb	16:34:07
1	B 249.677†	36705.3	38890.4	465.85	µg/L	465.85	ppb	16:33:47
1	Ba 233.527†	31290.4	33461.2	489.49	µg/L	489.49	ppb	16:33:47
1	Be 313.107†	1033963.4	1109495.3	490.59	µg/L	490.59	ppb	16:33:45
1	Cd 226.502†	27611.8	29537.4	476.87	µg/L	476.87	ppb	16:33:47
1	Co 228.616†	15138.3	16250.3	496.15	µg/L	496.15	ppb	16:34:07
1	Cr 267.716†	24330.2	25826.5	489.68	µg/L	489.68	ppb	16:33:47
1	Cu 324.752†	71108.8	71814.0	506.46	µg/L	506.46	ppb	16:33:47
1	Mn 257.610†	152780.4	162739.8	495.44	µg/L	495.44	ppb	16:33:47
1	Mo 202.031†	3943.9	4215.6	507.65	µg/L	507.65	ppb	16:34:07
1	Ni 231.604†	14824.2	15847.5	487.93	µg/L	487.93	ppb	16:33:47
1	P 214.914†	2220.0	2435.8	2477.6	µg/L	2477.6	ppb	16:34:07
1	Pb 220.353†	2141.6	2175.6	495.33	µg/L	495.33	ppb	16:34:07
1	S 181.975 Axial†	294.8	289.6	992.11	µg/L	992.11	ppb	16:34:07
1	Sb 206.836†	755.5	799.2	509.19	µg/L	509.19	ppb	16:34:07
1	Se 196.026†	344.5	350.6	498	µg/L	498	ppb	16:34:07
1	SiO2†	27306.4	27229.4	5148.9	µg/L	5148.9	ppb	16:33:47
1	Si 251.611†	75587.4	80258.1	2406.8	µg/L	2406.8	ppb	16:33:47
1	Sn 189.927†	1161.5	1234.8	499.86	µg/L	499.86	ppb	16:34:07
1	Ti 334.940†	242448.5	257046.7	496.57	µg/L	496.57	ppb	16:33:47
1	Tl 190.801†	318.4	355.4	487.24	µg/L	487.24	ppb	16:34:07
1	U 367.007†	1792.3	1591.3	468.00	µg/L	468.00	ppb	16:33:47
1	V 292.402†	64049.9	67962.5	502.75	µg/L	502.75	ppb	16:33:47
1	Zn 213.857†	35270.3	37090.5	488.52	µg/L	488.52	ppb	16:33:47
2	Sc RADIAL	20781.6	20781.6	96.7	%			16:32:45
2	Al 396.153Radial†	3368.1	3578.7	6395.7	µg/L	6395.7	ppb	16:33:05
2	Ca 317.933Radial†	7102.0	7276.3	4927.0	µg/L	4927.0	ppb	16:33:05
2	Fe 238.204 Radial†	1462.2	1481.3	5009.6	µg/L	5009.6	ppb	16:33:05
2	K 766.490 Radial†	4712.8	4192.9	5481.4	µg/L	5481.4	ppb	16:32:45
2	Mg 279.077 IEC†	704.7	725.4	5093.3	µg/L	5093.3	ppb	16:33:05
2	Na 589.592 Radial†	15050.0	15603.1	15023	µg/L	15023	ppb	16:32:45
2	Sr 421.552†	42506.2	43912.1	517.38	µg/L	517.38	ppb	16:32:45
2	Sc 361.383	1162191.6	1162191.6	97.118	%			16:34:09
2	Y 371.029	674783.2	674783.2	95.501	%			16:34:09
2	Ag 328.068†	72453.8	73957.7	524.31	µg/L	524.31	ppb	16:34:11
2	As 188.979†	202.5	211.2	488.19	µg/L	488.19	ppb	16:34:31
2	B 249.677†	39079.9	39984.4	480.15	µg/L	480.15	ppb	16:34:11
2	Ba 233.527†	33574.4	34661.1	507.04	µg/L	507.04	ppb	16:34:11
2	Be 313.107†	1073931.6	1112590.2	491.96	µg/L	491.96	ppb	16:34:09
2	Cd 226.502†	29845.8	30821.3	497.64	µg/L	497.64	ppb	16:34:11
2	Co 228.616†	15759.2	16332.5	498.65	µg/L	498.65	ppb	16:34:31
2	Cr 267.716†	26037.6	26689.0	506.02	µg/L	506.02	ppb	16:34:11
2	Cu 324.752†	75251.9	73462.6	518.05	µg/L	518.05	ppb	16:34:11
2	Mn 257.610†	162799.1	167432.1	509.74	µg/L	509.74	ppb	16:34:11
2	Mo 202.031†	4084.2	4214.8	507.55	µg/L	507.55	ppb	16:34:31
2	Ni 231.604†	15911.2	16421.1	505.60	µg/L	505.60	ppb	16:34:11
2	P 214.914†	2332.6	2469.9	2512.6	µg/L	2512.6	ppb	16:34:31
2	Pb 220.353†	2252.1	2210.5	503.25	µg/L	503.25	ppb	16:34:31

2	S 181.975 Axial†	312.9	297.5	1019.1 µg/L	1019.1 ppb		16:34:31
2	Sb 206.836†	784.5	801.2	510.32 µg/L	510.32 ppb		16:34:31
2	Se 196.026†	362.1	356.0	505 µg/L	505 ppb		16:34:31
2	SiO2†	28968.2	27935.4	5282.5 µg/L	5282.5 ppb		16:34:11
2	Si 251.611†	80272.6	82300.0	2468.1 µg/L	2468.1 ppb		16:34:11
2	Sn 189.927†	1223.6	1256.0	508.43 µg/L	508.43 ppb		16:34:31
2	Ti 334.940†	257630.6	263755.1	509.51 µg/L	509.51 ppb		16:34:11
2	Tl 190.801†	329.0	354.6	486.07 µg/L	486.07 ppb		16:34:31
2	U 367.007†	1919.9	1656.7	489.19 µg/L	489.19 ppb		16:34:11
2	V 292.402†	68249.6	69929.3	517.09 µg/L	517.09 ppb		16:34:11
2	Zn 213.857†	37350.5	37934.3	499.63 µg/L	499.63 ppb		16:34:11
3	Sc RADIAL	20965.8	20965.8	97.6 %			16:33:07
3	Al 396.153Radial†	3355.7	3535.5	6318.3 µg/L	6318.3 ppb		16:33:27
3	Ca 317.933Radial†	7021.3	7129.0	4827.3 µg/L	4827.3 ppb		16:33:27
3	Fe 238.204 Radial†	1439.4	1444.7	4885.4 µg/L	4885.4 ppb		16:33:27
3	K 766.490 Radial†	4779.3	4218.3	5514.5 µg/L	5514.5 ppb		16:33:07
3	Mg 279.077 IEC†	695.2	709.3	4980.0 µg/L	4980.0 ppb		16:33:27
3	Na 589.592 Radial†	15156.4	15575.4	14996 µg/L	14996 ppb		16:33:07
3	Sr 421.552†	43281.2	44320.3	522.19 µg/L	522.19 ppb		16:33:07
3	Sc 361.383	1167399.9	1167399.9	97.553 %			16:34:33
3	Y 371.029	677709.2	677709.2	95.915 %			16:34:33
3	Ag 328.068†	72151.8	73315.2	519.77 µg/L	519.77 ppb		16:34:35
3	As 188.979†	199.3	207.0	478.62 µg/L	478.62 ppb		16:34:56
3	B 249.677†	38796.5	39514.3	474.73 µg/L	474.73 ppb		16:34:35
3	Ba 233.527†	33423.2	34351.9	502.51 µg/L	502.51 ppb		16:34:35
3	Be 313.107†	1079088.9	1112943.3	492.11 µg/L	492.11 ppb		16:34:33
3	Cd 226.502†	29622.0	30454.8	491.74 µg/L	491.74 ppb		16:34:35
3	Co 228.616†	15783.8	16285.3	497.22 µg/L	497.22 ppb		16:34:56
3	Cr 267.716†	25897.3	26425.6	501.04 µg/L	501.04 ppb		16:34:35
3	Cu 324.752†	74747.8	72600.2	511.95 µg/L	511.95 ppb		16:34:35
3	Mn 257.610†	161860.0	165721.6	504.53 µg/L	504.53 ppb		16:34:35
3	Mo 202.031†	4105.9	4218.3	507.96 µg/L	507.96 ppb		16:34:56
3	Ni 231.604†	15823.8	16258.4	500.59 µg/L	500.59 ppb		16:34:35
3	P 214.914†	2336.3	2463.0	2505.8 µg/L	2505.8 ppb		16:34:56
3	Pb 220.353†	2242.4	2190.2	498.66 µg/L	498.66 ppb		16:34:56
3	S 181.975 Axial†	309.5	292.5	1002.3 µg/L	1002.3 ppb		16:34:56
3	Sb 206.836†	786.3	799.5	509.24 µg/L	509.24 ppb		16:34:56
3	Se 196.026†	363.4	355.6	505 µg/L	505 ppb		16:34:56
3	SiO2†	28798.2	27628.1	5224.4 µg/L	5224.4 ppb		16:34:35
3	Si 251.611†	79921.5	81571.4	2446.2 µg/L	2446.2 ppb		16:34:35
3	Sn 189.927†	1229.1	1256.0	508.40 µg/L	508.40 ppb		16:34:56
3	Ti 334.940†	255687.7	260579.9	503.38 µg/L	503.38 ppb		16:34:35
3	Tl 190.801†	322.5	346.4	474.83 µg/L	474.83 ppb		16:34:56
3	U 367.007†	1873.1	1599.9	472.10 µg/L	472.10 ppb		16:34:35
3	V 292.402†	67828.0	69183.5	511.63 µg/L	511.63 ppb		16:34:35
3	Zn 213.857†	37281.4	37691.8	496.46 µg/L	496.46 ppb		16:34:35

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1150556.9	96.146	%	2.0724				2.16%
Sc RADIAL	20678.3	96.2	%	1.63				1.70%
Y 371.029	668143.0	94.561	%	1.9971				2.11%
Ag 328.068†	73230.7	519.16	µg/L	5.480	519.16	ppb	5.480	1.06%
QC value within limits for Ag 328.068 Recovery = 103.83%								
Al 396.153Radial†	3599.7	6433.1	µg/L	137.44	6433.1	ppb	137.44	2.14%
QC value greater than the upper limit for Al 396.153Radial Recovery = 128.66%								
As 188.979†	208.2	481.35	µg/L	5.963	481.35	ppb	5.963	1.24%
QC value within limits for As 188.979 Recovery = 96.27%								
B 249.677†	39463.0	473.58	µg/L	7.220	473.58	ppb	7.220	1.52%
QC value within limits for B 249.677 Recovery = 94.72%								
Ba 233.527†	34158.1	499.68	µg/L	9.111	499.68	ppb	9.111	1.82%
QC value within limits for Ba 233.527 Recovery = 99.94%								
Be 313.107†	1111676.2	491.55	µg/L	0.839	491.55	ppb	0.839	0.17%
QC value within limits for Be 313.107 Recovery = 98.31%								
Ca 317.933Radial†	7295.2	4939.8	µg/L	119.46	4939.8	ppb	119.46	2.42%
QC value within limits for Ca 317.933Radial Recovery = 98.80%								
Cd 226.502†	30271.2	488.75	µg/L	10.705	488.75	ppb	10.705	2.19%
QC value within limits for Cd 226.502 Recovery = 97.75%								
Co 228.616†	16289.4	497.34	µg/L	1.250	497.34	ppb	1.250	0.25%

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   QC value within limits for Co 228.616  Recovery = 99.47%
Cr 267.716†            26313.7      498.91 µg/L         8.376      498.91 ppb          8.376   1.68%
   QC value within limits for Cr 267.716  Recovery = 99.78%
Cu 324.752†            72625.6      512.15 µg/L         5.798      512.15 ppb          5.798   1.13%
   QC value within limits for Cu 324.752  Recovery = 102.43%
Fe 238.204 Radial†      1483.8      5018.2 µg/L        137.27      5018.2 ppb         137.27   2.74%
   QC value within limits for Fe 238.204 Radial  Recovery = 100.36%
K 766.490 Radial†       4240.2      5543.1 µg/L         79.86      5543.1 ppb          79.86   1.44%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 110.86%
Mg 279.077 IEC†          732.9      5145.7 µg/L        197.26      5145.7 ppb         197.26   3.83%
   QC value within limits for Mg 279.077 IEC  Recovery = 102.91%
Mn 257.610†           165297.8      503.24 µg/L         7.234      503.24 ppb          7.234   1.44%
   QC value within limits for Mn 257.610  Recovery = 100.65%
Mo 202.031†             4216.2      507.72 µg/L         0.213      507.72 ppb          0.213   0.04%
   QC value within limits for Mo 202.031  Recovery = 101.54%
Na 589.592 Radial†     15700.7       15117 µg/L         186.3       15117 ppb          186.3   1.23%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 151.17%
Ni 231.604†            16175.7      498.04 µg/L         9.104      498.04 ppb          9.104   1.83%
   QC value within limits for Ni 231.604  Recovery = 99.61%
P 214.914†              2456.2      2498.7 µg/L         18.56      2498.7 ppb          18.56   0.74%
   QC value within limits for P 214.914  Recovery = 99.95%
Pb 220.353†             2192.1      499.08 µg/L         3.974      499.08 ppb          3.974   0.80%
   QC value within limits for Pb 220.353  Recovery = 99.82%
S 181.975 Axial†         293.2      1004.5 µg/L         13.63      1004.5 ppb          13.63   1.36%
   QC value within limits for S 181.975 Axial  Recovery = 100.45%
Sb 206.836†              800.0      509.58 µg/L         0.638      509.58 ppb          0.638   0.13%
   QC value within limits for Sb 206.836  Recovery = 101.92%
Se 196.026†              354.1         503 µg/L           4.2         503 ppb            4.2   0.84%
   QC value within limits for Se 196.026  Recovery = 100.54%
SiO2†                  27597.6      5218.6 µg/L         66.97      5218.6 ppb          66.97   1.28%
   QC value within limits for SiO2  Recovery = 97.59%
Si 251.611†            81376.5      2440.4 µg/L         31.10      2440.4 ppb          31.10   1.27%
   QC value within limits for Si 251.611  Recovery = 97.62%
Sn 189.927†             1248.9      505.56 µg/L         4.938      505.56 ppb          4.938   0.98%
   QC value within limits for Sn 189.927  Recovery = 101.11%
Sr 421.552†            44367.0      522.74 µg/L         5.655      522.74 ppb          5.655   1.08%
   QC value within limits for Sr 421.552  Recovery = 104.55%
Ti 334.940†           260460.6      503.16 µg/L         6.474      503.16 ppb          6.474   1.29%
   QC value within limits for Ti 334.940  Recovery = 100.63%
Tl 190.801†              352.1      482.71 µg/L         6.851      482.71 ppb          6.851   1.42%
   QC value within limits for Tl 190.801  Recovery = 96.54%
U 367.007†              1616.0      476.43 µg/L        11.243      476.43 ppb         11.243   2.36%
   QC value within limits for U 367.007  Recovery = 95.29%
V 292.402†             69025.1      510.49 µg/L         7.234      510.49 ppb          7.234   1.42%
   QC value within limits for V 292.402  Recovery = 102.10%
Zn 213.857†            37572.2      494.87 µg/L         5.722      494.87 ppb          5.722   1.16%
   QC value within limits for Zn 213.857  Recovery = 98.97%
QC Failed.  Continue with analysis.
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Sequence No.: 5 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 16:35:04**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20393.6	20393.6	94.9	%			16:35:51
1	Al 396.153Radial†	-74.2	18.0	32.260	µg/L	32.260	ppb	16:35:51
1	Ca 317.933Radial†	76.4	13.5	9.1410	µg/L	9.1410	ppb	16:36:11
1	Fe 238.204 Radial†	30.1	1.1	3.8174	µg/L	3.8174	ppb	16:36:11
1	K 766.490 Radial†	581.2	-67.6	-88.293	µg/L	-88.293	ppb	16:35:51
1	Mg 279.077 IEC†	-1.8	-5.1	-36.118	µg/L	-36.118	ppb	16:36:11
1	Na 589.592 Radial†	-12.6	28.6	27.572	µg/L	27.572	ppb	16:35:51
1	Sr 421.552†	42.7	7.0	0.0819	µg/L	0.0819	ppb	16:35:51
1	Sc 361.383	1145766.1	1145766.1	95.745	%			16:37:49
1	Y 371.029	679262.5	679262.5	96.135	%			16:37:49
1	Ag 328.068†	701.1	86.1	0.6284	µg/L	0.6284	ppb	16:37:51
1	As 188.979†	-8.6	-6.3	-14.263	µg/L	-14.263	ppb	16:38:11
1	B 249.677†	327.0	86.3	1.0994	µg/L	1.0994	ppb	16:38:11
1	Ba 233.527†	-88.5	-2.0	-0.0312	µg/L	-0.0312	ppb	16:38:11
1	Be 313.107†	-5947.0	578.5	0.2558	µg/L	0.2558	ppb	16:37:51
1	Cd 226.502†	-92.6	-6.8	-0.1105	µg/L	-0.1105	ppb	16:38:11
1	Co 228.616†	-98.2	3.1	0.0926	µg/L	0.0926	ppb	16:38:11
1	Cr 267.716†	127.4	11.8	0.2406	µg/L	0.2406	ppb	16:38:11
1	Cu 324.752†	3604.1	-258.1	-1.8270	µg/L	-1.8270	ppb	16:37:51
1	Mn 257.610†	175.9	-14.3	-0.0421	µg/L	-0.0421	ppb	16:38:11
1	Mo 202.031†	-18.1	-9.5	-1.1440	µg/L	-1.1440	ppb	16:38:11
1	Ni 231.604†	-29.9	6.6	0.2022	µg/L	0.2022	ppb	16:38:11
1	P 214.914†	-59.6	5.9	6.0924	µg/L	6.0924	ppb	16:38:11
1	Pb 220.353†	101.1	-2.8	-0.6234	µg/L	-0.6234	ppb	16:38:11
1	S 181.975 Axial†	22.2	-1.5	-5.1279	µg/L	-5.1279	ppb	16:38:11
1	Sb 206.836†	10.8	4.8	3.0166	µg/L	3.0166	ppb	16:38:11
1	Se 196.026†	16.4	0.3	0.454	µg/L	0.454	ppb	16:38:11
1	SiO2†	1716.3	-99.9	-18.847	µg/L	-18.847	ppb	16:38:11
1	Si 251.611†	350.0	10.9	0.3438	µg/L	0.3438	ppb	16:38:11
1	Sn 189.927†	1.5	-2.4	-0.9662	µg/L	-0.9662	ppb	16:38:11
1	Ti 334.940†	1329.1	-132.6	-0.2426	µg/L	-0.2426	ppb	16:37:51
1	Tl 190.801†	-10.4	5.0	6.9349	µg/L	6.9349	ppb	16:38:11
1	U 367.007†	229.1	-80.9	-25.328	µg/L	-25.328	ppb	16:37:51
1	V 292.402†	237.4	-97.6	-0.7383	µg/L	-0.7383	ppb	16:37:51
1	Zn 213.857†	556.5	56.6	0.7509	µg/L	0.7509	ppb	16:38:11
2	Sc RADIAL	20425.2	20425.2	95.1	%			16:36:31
2	Al 396.153Radial†	-76.5	15.7	28.135	µg/L	28.135	ppb	16:36:31
2	Ca 317.933Radial†	64.9	1.3	0.8856	µg/L	0.8856	ppb	16:36:51
2	Fe 238.204 Radial†	28.1	-1.0	-3.3081	µg/L	-3.3081	ppb	16:36:51
2	K 766.490 Radial†	547.8	-103.7	-135.48	µg/L	-135.48	ppb	16:36:31
2	Mg 279.077 IEC†	-2.3	-5.6	-39.527	µg/L	-39.527	ppb	16:36:51
2	Na 589.592 Radial†	-21.3	19.5	18.763	µg/L	18.763	ppb	16:36:31
2	Sr 421.552†	40.1	4.2	0.0500	µg/L	0.0500	ppb	16:36:31
2	Sc 361.383	1176405.6	1176405.6	98.306	%			16:38:13
2	Y 371.029	697363.8	697363.8	98.697	%			16:38:13
2	Ag 328.068†	564.9	-71.5	-0.4888	µg/L	-0.4888	ppb	16:38:15
2	As 188.979†	-3.3	-0.6	-1.4519	µg/L	-1.4519	ppb	16:38:35
2	B 249.677†	318.2	68.5	0.9233	µg/L	0.9233	ppb	16:38:35
2	Ba 233.527†	-72.0	17.1	0.2499	µg/L	0.2499	ppb	16:38:35
2	Be 313.107†	-5844.7	844.2	0.3733	µg/L	0.3733	ppb	16:38:15
2	Cd 226.502†	-92.7	-4.5	-0.0715	µg/L	-0.0715	ppb	16:38:35
2	Co 228.616†	-102.2	1.6	0.0509	µg/L	0.0509	ppb	16:38:35
2	Cr 267.716†	128.2	9.2	0.1869	µg/L	0.1869	ppb	16:38:35
2	Cu 324.752†	3772.3	-185.1	-1.3116	µg/L	-1.3116	ppb	16:38:15
2	Mn 257.610†	196.0	1.3	0.0053	µg/L	0.0053	ppb	16:38:35
2	Mo 202.031†	-11.9	-2.7	-0.3265	µg/L	-0.3265	ppb	16:38:35
2	Ni 231.604†	-21.0	16.4	0.5050	µg/L	0.5050	ppb	16:38:35
2	P 214.914†	-56.9	10.3	10.544	µg/L	10.544	ppb	16:38:35
2	Pb 220.353†	104.1	-2.6	-0.5657	µg/L	-0.5657	ppb	16:38:35

2	S 181.975 Axial†	25.6	1.3	4.5063	µg/L	4.5063	ppb	16:38:35
2	Sb 206.836†	8.3	1.9	1.1888	µg/L	1.1888	ppb	16:38:35
2	Se 196.026†	19.0	2.5	3.47	µg/L	3.47	ppb	16:38:35
2	SiO2†	1731.9	-130.7	-24.661	µg/L	-24.661	ppb	16:38:35
2	Si 251.611†	365.9	17.6	0.5331	µg/L	0.5331	ppb	16:38:35
2	Sn 189.927†	-2.0	-5.9	-2.4009	µg/L	-2.4009	ppb	16:38:35
2	Ti 334.940†	1287.1	-211.5	-0.3986	µg/L	-0.3986	ppb	16:38:15
2	Tl 190.801†	-11.7	3.9	5.4565	µg/L	5.4565	ppb	16:38:35
2	U 367.007†	254.5	-61.3	-19.156	µg/L	-19.156	ppb	16:38:15
2	V 292.402†	340.5	0.7	-0.0095	µg/L	-0.0095	ppb	16:38:15
2	Zn 213.857†	546.3	31.1	0.4112	µg/L	0.4112	ppb	16:38:35
3	Sc RADIAL	20539.6	20539.6	95.6	%			16:37:11
3	Al 396.153Radial†	-73.3	19.5	34.927	µg/L	34.927	ppb	16:37:11
3	Ca 317.933Radial†	67.9	4.1	2.7646	µg/L	2.7646	ppb	16:37:31
3	Fe 238.204 Radial†	30.3	1.2	4.0283	µg/L	4.0283	ppb	16:37:31
3	K 766.490 Radial†	587.5	-65.4	-85.397	µg/L	-85.397	ppb	16:37:11
3	Mg 279.077 IEC†	4.1	1.0	7.2591	µg/L	7.2591	ppb	16:37:31
3	Na 589.592 Radial†	-25.5	15.2	14.648	µg/L	14.648	ppb	16:37:11
3	Sr 421.552†	38.9	2.8	0.0325	µg/L	0.0325	ppb	16:37:11
3	Sc 361.383	1166155.8	1166155.8	97.449	%			16:38:37
3	Y 371.029	691262.6	691262.6	97.833	%			16:38:37
3	Ag 328.068†	496.7	-136.4	-0.9626	µg/L	-0.9626	ppb	16:38:39
3	As 188.979†	-4.7	-2.2	-4.9255	µg/L	-4.9255	ppb	16:38:59
3	B 249.677†	318.9	72.0	0.9195	µg/L	0.9195	ppb	16:38:59
3	Ba 233.527†	-91.0	-3.0	-0.0454	µg/L	-0.0454	ppb	16:38:59
3	Be 313.107†	-6101.4	528.6	0.2337	µg/L	0.2337	ppb	16:38:39
3	Cd 226.502†	-73.4	14.6	0.2351	µg/L	0.2351	ppb	16:38:59
3	Co 228.616†	-99.8	3.2	0.0968	µg/L	0.0968	ppb	16:38:59
3	Cr 267.716†	106.9	-11.6	-0.2157	µg/L	-0.2157	ppb	16:38:59
3	Cu 324.752†	3630.4	-296.9	-2.0911	µg/L	-2.0911	ppb	16:38:39
3	Mn 257.610†	190.4	-2.7	-0.0085	µg/L	-0.0085	ppb	16:38:59
3	Mo 202.031†	-12.2	-3.1	-0.3765	µg/L	-0.3765	ppb	16:38:59
3	Ni 231.604†	-28.9	8.1	0.2499	µg/L	0.2499	ppb	16:38:59
3	P 214.914†	-49.1	17.7	18.185	µg/L	18.185	ppb	16:38:59
3	Pb 220.353†	107.2	1.6	0.3575	µg/L	0.3575	ppb	16:38:59
3	S 181.975 Axial†	21.6	-2.5	-8.7273	µg/L	-8.7273	ppb	16:38:59
3	Sb 206.836†	6.4	0.1	0.0435	µg/L	0.0435	ppb	16:38:59
3	Se 196.026†	16.4	0.0	0.018	µg/L	0.018	ppb	16:38:59
3	SiO2†	1737.4	-109.6	-20.690	µg/L	-20.690	ppb	16:38:59
3	Si 251.611†	358.7	13.4	0.4090	µg/L	0.4090	ppb	16:38:59
3	Sn 189.927†	1.8	-2.1	-0.8391	µg/L	-0.8391	ppb	16:38:59
3	Ti 334.940†	1278.3	-209.0	-0.4008	µg/L	-0.4008	ppb	16:38:39
3	Tl 190.801†	-17.6	-2.2	-3.1025	µg/L	-3.1025	ppb	16:38:59
3	U 367.007†	294.3	-18.1	-5.6906	µg/L	-5.6906	ppb	16:38:39
3	V 292.402†	232.3	-107.2	-0.7883	µg/L	-0.7883	ppb	16:38:39
3	Zn 213.857†	557.4	47.3	0.6275	µg/L	0.6275	ppb	16:38:59

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1162775.8	97.167	%	1.3034				1.34%
Sc RADIAL	20452.8	95.2	%	0.36				0.38%
Y 371.029	689296.3	97.555	%	1.3034				1.34%
Ag 328.068†	-40.6	-0.2744	µg/L	0.81688	-0.2744	ppb	0.81688	297.75%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	17.8	31.774	µg/L	3.4220	31.774	ppb	3.4220	10.77%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.0	-6.8801	µg/L	6.62542	-6.8801	ppb	6.62542	96.30%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	75.6	0.9807	µg/L	0.10278	0.9807	ppb	0.10278	10.48%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	4.1	0.0578	µg/L	0.16653	0.0578	ppb	0.16653	288.29%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	650.4	0.2876	µg/L	0.07503	0.2876	ppb	0.07503	26.09%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.3	4.2637	µg/L	4.32707	4.2637	ppb	4.32707	101.49%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	1.1	0.0177	µg/L	0.18931	0.0177	ppb	0.18931	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	2.6	0.0801	µg/L	0.02534	0.0801	ppb	0.02534	31.64%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                3.1      0.0706 µg/L       0.24940      0.0706 ppb        0.24940 353.28%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -246.7     -1.7433 µg/L       0.39646     -1.7433 ppb        0.39646  22.74%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         0.4      1.5126 µg/L       4.17610      1.5126 ppb        4.17610 276.10%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -78.9     -103.06 µg/L        28.116     -103.06 ppb         28.116  27.28%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -3.2     -22.795 µg/L       26.0834     -22.795 ppb        26.0834 114.43%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               -5.3     -0.0151 µg/L       0.02440     -0.0151 ppb        0.02440 161.56%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -5.1     -0.6157 µg/L       0.45821     -0.6157 ppb        0.45821  74.43%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        21.1      20.327 µg/L        6.6026      20.327 ppb         6.6026  32.48%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               10.4      0.3190 µg/L       0.16280      0.3190 ppb        0.16280  51.03%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                11.3      11.607 µg/L        6.1161      11.607 ppb         6.1161  52.69%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†               -1.3     -0.2772 µg/L       0.55041     -0.2772 ppb        0.55041 198.57%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -0.9     -3.1163 µg/L       6.84226     -3.1163 ppb        6.84226 219.56%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                2.2      1.4163 µg/L       1.49953      1.4163 ppb        1.49953 105.88%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                0.9        1.32 µg/L         1.882        1.32 ppb          1.882 143.11%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                   -113.4     -21.400 µg/L        2.9713     -21.400 ppb         2.9713  13.88%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               14.0      0.4286 µg/L       0.09616      0.4286 ppb        0.09616  22.43%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -3.5     -1.4021 µg/L       0.86732     -1.4021 ppb        0.86732  61.86%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                4.7      0.0548 µg/L       0.02503      0.0548 ppb        0.02503  45.68%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -184.3     -0.3473 µg/L       0.09071     -0.3473 ppb        0.09071  26.11%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                2.2      3.0963 µg/L       5.41896      3.0963 ppb        5.41896 175.01%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -53.5     -16.725 µg/L       10.0418     -16.725 ppb        10.0418  60.04%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -68.0     -0.5120 µg/L       0.43590     -0.5120 ppb        0.43590  85.13%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               45.0      0.5965 µg/L       0.17194      0.5965 ppb        0.17194  28.82%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

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Analysis Begun

Start Time: 11/7/2013 17:02:06 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110713.sif
Batch ID:
Results Data Set: 110713
Results Library: C:\pe\optima4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 17:02:08**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20229.8	20229.8	94.1	%			17:02:39
1	Al 396.153Radial†	3540.4	3856.8	6893.0	µg/L	6893.0	ppb	17:02:59
1	Ca 317.933Radial†	7416.2	7810.2	5288.6	µg/L	5288.6	ppb	17:02:59
1	Fe 238.204 Radial†	1515.9	1579.6	5343.2	µg/L	5343.2	ppb	17:02:59
1	K 766.490 Radial†	4748.0	4363.3	5703.5	µg/L	5703.5	ppb	17:02:39
1	Mg 279.077 IEC†	737.2	779.8	5475.0	µg/L	5475.0	ppb	17:02:59
1	Na 589.592 Radial†	15310.4	16304.2	15698	µg/L	15698	ppb	17:02:39
1	Sr 421.552†	42809.6	45433.2	535.30	µg/L	535.30	ppb	17:02:39
1	Sc 361.383	1188337.9	1188337.9	99.303	%			17:04:01
1	Y 371.029	690404.6	690404.6	97.712	%			17:04:01
1	Ag 328.068†	72967.6	72833.6	516.37	µg/L	516.37	ppb	17:04:03
1	As 188.979†	198.0	202.1	467.33	µg/L	467.33	ppb	17:04:23
1	B 249.677†	39329.9	39350.7	470.87	µg/L	470.87	ppb	17:04:03
1	Ba 233.527†	33730.4	34057.6	498.21	µg/L	498.21	ppb	17:04:03
1	Be 313.107†	1111870.8	1126465.4	498.09	µg/L	498.09	ppb	17:04:01
1	Cd 226.502†	29983.6	30283.9	488.91	µg/L	488.91	ppb	17:04:03
1	Co 228.616†	15963.0	16180.6	494.02	µg/L	494.02	ppb	17:04:03
1	Cr 267.716†	26077.3	26139.1	495.63	µg/L	495.63	ppb	17:04:03
1	Cu 324.752†	75151.7	71656.9	505.36	µg/L	505.36	ppb	17:04:03
1	Mn 257.610†	163124.1	164071.1	499.50	µg/L	499.50	ppb	17:04:03
1	Mo 202.031†	4207.3	4246.2	511.35	µg/L	511.35	ppb	17:04:23
1	Ni 231.604†	16025.4	16175.7	498.04	µg/L	498.04	ppb	17:04:03
1	P 214.914†	2431.6	2516.8	2560.3	µg/L	2560.3	ppb	17:04:23
1	Pb 220.353†	2274.7	2182.2	496.88	µg/L	496.88	ppb	17:04:23
1	S 181.975 Axial†	313.5	290.9	996.48	µg/L	996.48	ppb	17:04:23
1	Sb 206.836†	817.3	816.5	520.16	µg/L	520.16	ppb	17:04:23
1	Se 196.026†	367.5	353.3	502	µg/L	502	ppb	17:04:23
1	SiO2†	29429.7	27743.8	5246.1	µg/L	5246.1	ppb	17:04:03
1	Si 251.611†	81727.9	81946.9	2457.5	µg/L	2457.5	ppb	17:04:03
1	Sn 189.927†	1275.7	1280.7	518.47	µg/L	518.47	ppb	17:04:23
1	Ti 334.940†	259067.0	259364.8	501.07	µg/L	501.07	ppb	17:04:03
1	Tl 190.801†	325.1	343.2	470.34	µg/L	470.34	ppb	17:04:23
1	U 367.007†	1811.2	1503.7	439.64	µg/L	439.64	ppb	17:04:03
1	V 292.402†	68523.6	68658.9	507.89	µg/L	507.89	ppb	17:04:03
1	Zn 213.857†	37704.1	37444.1	493.14	µg/L	493.14	ppb	17:04:03
2	Sc RADIAL	21044.2	21044.2	97.9	%			17:03:01
2	Al 396.153Radial†	3429.3	3597.8	6429.7	µg/L	6429.7	ppb	17:03:21
2	Ca 317.933Radial†	7239.5	7325.0	4960.0	µg/L	4960.0	ppb	17:03:21
2	Fe 238.204 Radial†	1484.8	1485.6	5023.8	µg/L	5023.8	ppb	17:03:21
2	K 766.490 Radial†	4853.2	4275.4	5589.1	µg/L	5589.1	ppb	17:03:01
2	Mg 279.077 IEC†	720.3	732.3	5141.4	µg/L	5141.4	ppb	17:03:21
2	Na 589.592 Radial†	15762.5	16136.5	15536	µg/L	15536	ppb	17:03:01
2	Sr 421.552†	44413.3	45311.0	533.87	µg/L	533.87	ppb	17:03:01
2	Sc 361.383	1181445.1	1181445.1	98.727	%			17:04:26
2	Y 371.029	685977.2	685977.2	97.085	%			17:04:26
2	Ag 328.068†	73861.4	74167.7	525.84	µg/L	525.84	ppb	17:04:28
2	As 188.979†	195.5	200.7	464.25	µg/L	464.25	ppb	17:04:48

2	B 249.677†	39982.3	40242.6	483.30	µg/L	483.30	ppb	17:04:28
2	Ba 233.527†	34200.2	34731.6	508.07	µg/L	508.07	ppb	17:04:28
2	Be 313.107†	1104877.0	1125913.8	497.85	µg/L	497.85	ppb	17:04:26
2	Cd 226.502†	30365.0	30846.4	498.05	µg/L	498.05	ppb	17:04:28
2	Co 228.616†	16215.1	16529.7	504.68	µg/L	504.68	ppb	17:04:28
2	Cr 267.716†	26456.3	26676.2	505.80	µg/L	505.80	ppb	17:04:28
2	Cu 324.752†	76200.4	73160.6	515.91	µg/L	515.91	ppb	17:04:28
2	Mn 257.610†	165543.6	167480.2	509.88	µg/L	509.88	ppb	17:04:28
2	Mo 202.031†	4246.9	4311.1	519.14	µg/L	519.14	ppb	17:04:48
2	Ni 231.604†	16281.3	16529.0	508.92	µg/L	508.92	ppb	17:04:28
2	P 214.914†	2445.0	2544.7	2589.0	µg/L	2589.0	ppb	17:04:48
2	Pb 220.353†	2300.5	2221.7	505.86	µg/L	505.86	ppb	17:04:48
2	S 181.975 Axial†	312.0	291.3	997.74	µg/L	997.74	ppb	17:04:48
2	Sb 206.836†	821.8	825.9	526.12	µg/L	526.12	ppb	17:04:48
2	Se 196.026†	365.6	353.5	502	µg/L	502	ppb	17:04:48
2	SiO2†	29973.6	28467.7	5383.0	µg/L	5383.0	ppb	17:04:28
2	Si 251.611†	83020.5	83736.4	2511.2	µg/L	2511.2	ppb	17:04:28
2	Sn 189.927†	1283.8	1296.4	524.78	µg/L	524.78	ppb	17:04:48
2	Ti 334.940†	262843.4	264712.0	511.38	µg/L	511.38	ppb	17:04:28
2	Tl 190.801†	328.0	348.1	477.03	µg/L	477.03	ppb	17:04:48
2	U 367.007†	1839.8	1543.4	453.67	µg/L	453.67	ppb	17:04:28
2	V 292.402†	69401.4	69950.7	517.36	µg/L	517.36	ppb	17:04:28
2	Zn 213.857†	38515.4	38487.4	506.95	µg/L	506.95	ppb	17:04:28
3	Sc RADIAL	20743.3	20743.3	96.5	%			17:03:23
3	Al 396.153Radial†	3452.6	3672.7	6563.6	µg/L	6563.6	ppb	17:03:43
3	Ca 317.933Radial†	7303.8	7498.9	5077.7	µg/L	5077.7	ppb	17:03:43
3	Fe 238.204 Radial†	1498.3	1521.5	5145.6	µg/L	5145.6	ppb	17:03:43
3	K 766.490 Radial†	4859.9	4354.3	5692.2	µg/L	5692.2	ppb	17:03:23
3	Mg 279.077 IEC†	728.7	751.6	5277.3	µg/L	5277.3	ppb	17:03:43
3	Na 589.592 Radial†	15273.7	15863.5	15273	µg/L	15273	ppb	17:03:23
3	Sr 421.552†	43611.5	45138.3	531.83	µg/L	531.83	ppb	17:03:23
3	Sc 361.383	1174004.9	1174004.9	98.105	%			17:04:50
3	Y 371.029	682182.9	682182.9	96.548	%			17:04:50
3	Ag 328.068†	73535.2	74309.3	526.82	µg/L	526.82	ppb	17:04:52
3	As 188.979†	200.6	207.2	479.11	µg/L	479.11	ppb	17:05:12
3	B 249.677†	39843.2	40357.5	484.24	µg/L	484.24	ppb	17:04:52
3	Ba 233.527†	33981.0	34727.7	508.01	µg/L	508.01	ppb	17:04:52
3	Be 313.107†	1103383.8	1131484.1	500.31	µg/L	500.31	ppb	17:04:50
3	Cd 226.502†	30260.5	30934.8	499.46	µg/L	499.46	ppb	17:04:52
3	Co 228.616†	16181.6	16599.7	506.82	µg/L	506.82	ppb	17:04:52
3	Cr 267.716†	26348.5	26736.2	506.93	µg/L	506.93	ppb	17:04:52
3	Cu 324.752†	75666.7	73105.7	515.55	µg/L	515.55	ppb	17:04:52
3	Mn 257.610†	164892.1	167878.7	511.09	µg/L	511.09	ppb	17:04:52
3	Mo 202.031†	4227.1	4318.2	519.99	µg/L	519.99	ppb	17:05:12
3	Ni 231.604†	16236.4	16587.7	510.72	µg/L	510.72	ppb	17:04:52
3	P 214.914†	2443.6	2558.9	2603.5	µg/L	2603.5	ppb	17:05:12
3	Pb 220.353†	2310.6	2246.8	511.54	µg/L	511.54	ppb	17:05:12
3	S 181.975 Axial†	314.1	295.4	1012.0	µg/L	1012.0	ppb	17:05:12
3	Sb 206.836†	816.1	825.3	525.76	µg/L	525.76	ppb	17:05:12
3	Se 196.026†	362.6	352.8	501	µg/L	501	ppb	17:05:12
3	SiO2†	29756.4	28438.7	5377.5	µg/L	5377.5	ppb	17:04:52
3	Si 251.611†	82582.5	83822.8	2513.8	µg/L	2513.8	ppb	17:04:52
3	Sn 189.927†	1283.0	1303.8	527.79	µg/L	527.79	ppb	17:05:12
3	Ti 334.940†	261414.5	264942.7	511.83	µg/L	511.83	ppb	17:04:52
3	Tl 190.801†	331.0	353.2	484.13	µg/L	484.13	ppb	17:05:12
3	U 367.007†	1876.3	1592.4	468.33	µg/L	468.33	ppb	17:04:52
3	V 292.402†	69046.4	70034.4	518.01	µg/L	518.01	ppb	17:04:52
3	Zn 213.857†	38149.2	38361.4	505.25	µg/L	505.25	ppb	17:04:52

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1181262.7	98.712	%	0.5990				0.61%
Sc RADIAL	20672.4	96.2	%	1.92				1.99%
Y 371.029	686188.2	97.115	%	0.5824				0.60%
Ag 328.068†	73770.2	523.01	µg/L	5.772	523.01	ppb	5.772	1.10%
QC value within limits for Ag 328.068 Recovery = 104.60%								
Al 396.153Radial†	3709.1	6628.8	µg/L	238.40	6628.8	ppb	238.40	3.60%
QC value greater than the upper limit for Al 396.153Radial Recovery = 132.58%								
As 188.979†	203.3	470.23	µg/L	7.844	470.23	ppb	7.844	1.67%

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   QC value within limits for As 188.979  Recovery = 94.05%
B 249.677†            39983.6      479.47 µg/L         7.463      479.47 ppb          7.463   1.56%
   QC value within limits for B 249.677  Recovery = 95.89%
Ba 233.527†           34505.6      504.76 µg/L         5.678      504.76 ppb          5.678   1.12%
   QC value within limits for Ba 233.527  Recovery = 100.95%
Be 313.107†         1127954.4      498.75 µg/L         1.357      498.75 ppb          1.357   0.27%
   QC value within limits for Be 313.107  Recovery = 99.75%
Ca 317.933Radial†      7544.7      5108.8 µg/L        166.47      5108.8 ppb         166.47   3.26%
   QC value within limits for Ca 317.933Radial  Recovery = 102.18%
Cd 226.502†           30688.4      495.48 µg/L         5.727      495.48 ppb          5.727   1.16%
   QC value within limits for Cd 226.502  Recovery = 99.10%
Co 228.616†           16436.7      501.84 µg/L         6.855      501.84 ppb          6.855   1.37%
   QC value within limits for Co 228.616  Recovery = 100.37%
Cr 267.716†           26517.2      502.79 µg/L         6.225      502.79 ppb          6.225   1.24%
   QC value within limits for Cr 267.716  Recovery = 100.56%
Cu 324.752†           72641.1      512.27 µg/L         5.987      512.27 ppb          5.987   1.17%
   QC value within limits for Cu 324.752  Recovery = 102.45%
Fe 238.204 Radial†     1528.9      5170.9 µg/L        161.18      5170.9 ppb         161.18   3.12%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.42%
K 766.490 Radial†      4331.0      5661.6 µg/L         63.04      5661.6 ppb          63.04   1.11%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 113.23%
Mg 279.077 IEC†         754.6      5297.9 µg/L        167.73      5297.9 ppb         167.73   3.17%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.96%
Mn 257.610†          166476.7      506.83 µg/L         6.375      506.83 ppb          6.375   1.26%
   QC value within limits for Mn 257.610  Recovery = 101.37%
Mo 202.031†            4291.8      516.83 µg/L         4.766      516.83 ppb          4.766   0.92%
   QC value within limits for Mo 202.031  Recovery = 103.37%
Na 589.592 Radial†    16101.4       15502 µg/L         214.1       15502 ppb          214.1   1.38%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 155.02%
Ni 231.604†           16430.8      505.89 µg/L         6.864      505.89 ppb          6.864   1.36%
   QC value within limits for Ni 231.604  Recovery = 101.18%
P 214.914†             2540.1      2584.3 µg/L         21.95      2584.3 ppb          21.95   0.85%
   QC value within limits for P 214.914  Recovery = 103.37%
Pb 220.353†            2216.9      504.76 µg/L         7.390      504.76 ppb          7.390   1.46%
   QC value within limits for Pb 220.353  Recovery = 100.95%
S 181.975 Axial†        292.5      1002.1 µg/L          8.62      1002.1 ppb           8.62   0.86%
   QC value within limits for S 181.975 Axial  Recovery = 100.21%
Sb 206.836†             822.5      524.01 µg/L         3.338      524.01 ppb          3.338   0.64%
   QC value within limits for Sb 206.836  Recovery = 104.80%
Se 196.026†             353.2         501 µg/L           0.5         501 ppb            0.5   0.10%
   QC value within limits for Se 196.026  Recovery = 100.30%
SiO2†                  28216.7      5335.5 µg/L         77.47      5335.5 ppb          77.47   1.45%
   QC value within limits for SiO2  Recovery = 99.78%
Si 251.611†            83168.7      2494.2 µg/L         31.76      2494.2 ppb          31.76   1.27%
   QC value within limits for Si 251.611  Recovery = 99.77%
Sn 189.927†            1293.7      523.68 µg/L         4.756      523.68 ppb          4.756   0.91%
   QC value within limits for Sn 189.927  Recovery = 104.74%
Sr 421.552†            45294.2      533.67 µg/L         1.745      533.67 ppb          1.745   0.33%
   QC value within limits for Sr 421.552  Recovery = 106.73%
Ti 334.940†           263006.5      508.09 µg/L         6.083      508.09 ppb          6.083   1.20%
   QC value within limits for Ti 334.940  Recovery = 101.62%
Tl 190.801†             348.2      477.17 µg/L         6.895      477.17 ppb          6.895   1.45%
   QC value within limits for Tl 190.801  Recovery = 95.43%
U 367.007†             1546.5      453.88 µg/L        14.349      453.88 ppb         14.349   3.16%
   QC value within limits for U 367.007  Recovery = 90.78%
V 292.402†             69548.0      514.42 µg/L         5.666      514.42 ppb          5.666   1.10%
   QC value within limits for V 292.402  Recovery = 102.88%
Zn 213.857†            38097.7      501.78 µg/L         7.534      501.78 ppb          7.534   1.50%
   QC value within limits for Zn 213.857  Recovery = 100.36%
QC Failed.  Continue with analysis.
```

Sequence No.: 2
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/7/2013 17:05:21
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20822.0	20822.0	96.9	%			17:06:08
1	Al 396.153Radial†	-81.4	12.2	21.883	µg/L	21.883	ppb	17:06:08
1	Ca 317.933Radial†	67.4	2.5	1.7124	µg/L	1.7124	ppb	17:06:28
1	Fe 238.204 Radial†	26.4	-3.3	-11.055	µg/L	-11.055	ppb	17:06:28
1	K 766.490 Radial†	597.5	-63.4	-82.860	µg/L	-82.860	ppb	17:06:08
1	Mg 279.077 IEC†	-1.1	-4.3	-30.480	µg/L	-30.480	ppb	17:06:28
1	Na 589.592 Radial†	-34.1	6.7	6.4247	µg/L	6.4247	ppb	17:06:08
1	Sr 421.552†	35.4	-1.4	-0.0169	µg/L	-0.0169	ppb	17:06:08
1	Sc 361.383	1177060.0	1177060.0	98.360	%			17:08:06
1	Y 371.029	698087.7	698087.7	98.799	%			17:08:06
1	Ag 328.068†	609.7	-26.3	-0.1815	µg/L	-0.1815	ppb	17:08:08
1	As 188.979†	-1.3	1.4	3.2248	µg/L	3.2248	ppb	17:08:28
1	B 249.677†	320.2	70.3	0.9542	µg/L	0.9542	ppb	17:08:28
1	Ba 233.527†	-96.9	-8.1	-0.1185	µg/L	-0.1185	ppb	17:08:28
1	Be 313.107†	-6029.3	659.9	0.2918	µg/L	0.2918	ppb	17:08:08
1	Cd 226.502†	-90.1	-1.8	-0.0268	µg/L	-0.0268	ppb	17:08:28
1	Co 228.616†	-93.5	10.5	0.3221	µg/L	0.3221	ppb	17:08:28
1	Cr 267.716†	121.2	2.0	0.0416	µg/L	0.0416	ppb	17:08:28
1	Cu 324.752†	3731.6	-228.6	-1.6125	µg/L	-1.6125	ppb	17:08:08
1	Mn 257.610†	185.2	-9.8	-0.0288	µg/L	-0.0288	ppb	17:08:28
1	Mo 202.031†	-9.0	0.3	0.0328	µg/L	0.0328	ppb	17:08:28
1	Ni 231.604†	-23.8	13.6	0.4185	µg/L	0.4185	ppb	17:08:28
1	P 214.914†	-62.4	4.7	4.8178	µg/L	4.8178	ppb	17:08:28
1	Pb 220.353†	115.0	8.5	1.9394	µg/L	1.9394	ppb	17:08:28
1	S 181.975 Axial†	21.5	-2.9	-9.8896	µg/L	-9.8896	ppb	17:08:28
1	Sb 206.836†	3.5	-3.0	-1.9160	µg/L	-1.9160	ppb	17:08:28
1	Se 196.026†	15.2	-1.4	-1.98	µg/L	-1.98	ppb	17:08:28
1	SiO2†	1724.8	-138.9	-26.209	µg/L	-26.209	ppb	17:08:28
1	Si 251.611†	344.3	-4.6	-0.1405	µg/L	-0.1405	ppb	17:08:28
1	Sn 189.927†	3.4	-0.5	-0.2018	µg/L	-0.2018	ppb	17:08:28
1	Ti 334.940†	1361.0	-137.1	-0.2619	µg/L	-0.2619	ppb	17:08:08
1	Tl 190.801†	-11.0	4.6	6.3941	µg/L	6.3941	ppb	17:08:28
1	U 367.007†	298.2	-17.0	-5.2667	µg/L	-5.2667	ppb	17:08:08
1	V 292.402†	338.1	-1.9	-0.0178	µg/L	-0.0178	ppb	17:08:08
1	Zn 213.857†	539.8	24.1	0.3202	µg/L	0.3202	ppb	17:08:28
2	Sc RADIAL	20550.5	20550.5	95.6	%			17:06:48
2	Al 396.153Radial†	-74.2	18.7	33.364	µg/L	33.364	ppb	17:06:48
2	Ca 317.933Radial†	68.5	4.7	3.1493	µg/L	3.1493	ppb	17:07:08
2	Fe 238.204 Radial†	29.4	0.2	0.6528	µg/L	0.6528	ppb	17:07:08
2	K 766.490 Radial†	582.9	-70.5	-92.119	µg/L	-92.119	ppb	17:06:48
2	Mg 279.077 IEC†	5.4	2.5	17.384	µg/L	17.384	ppb	17:07:08
2	Na 589.592 Radial†	-42.1	-2.1	-2.0439	µg/L	-2.0439	ppb	17:06:48
2	Sr 421.552†	44.5	8.5	0.1002	µg/L	0.1002	ppb	17:06:48
2	Sc 361.383	1178763.1	1178763.1	98.503	%			17:08:30
2	Y 371.029	699114.6	699114.6	98.944	%			17:08:30
2	Ag 328.068†	509.5	-128.9	-0.8996	µg/L	-0.8996	ppb	17:08:32
2	As 188.979†	-3.0	-0.4	-0.8112	µg/L	-0.8112	ppb	17:08:52
2	B 249.677†	274.2	23.1	0.3238	µg/L	0.3238	ppb	17:08:52
2	Ba 233.527†	-113.1	-24.4	-0.3554	µg/L	-0.3554	ppb	17:08:52
2	Be 313.107†	-5943.0	756.4	0.3345	µg/L	0.3345	ppb	17:08:32
2	Cd 226.502†	-97.1	-8.7	-0.1408	µg/L	-0.1408	ppb	17:08:52
2	Co 228.616†	-103.1	1.0	0.0306	µg/L	0.0306	ppb	17:08:52
2	Cr 267.716†	133.4	14.2	0.2773	µg/L	0.2773	ppb	17:08:52
2	Cu 324.752†	3563.9	-404.3	-2.8506	µg/L	-2.8506	ppb	17:08:32
2	Mn 257.610†	182.7	-12.6	-0.0389	µg/L	-0.0389	ppb	17:08:52
2	Mo 202.031†	-7.4	1.9	0.2288	µg/L	0.2288	ppb	17:08:52
2	Ni 231.604†	-37.4	-0.2	-0.0063	µg/L	-0.0063	ppb	17:08:52
2	P 214.914†	-59.9	7.3	7.4996	µg/L	7.4996	ppb	17:08:52
2	Pb 220.353†	111.0	4.2	0.9730	µg/L	0.9730	ppb	17:08:52

2	S 181.975 Axial†	23.7	-0.7	-2.2524	µg/L	-2.2524	ppb	17:08:52
2	Sb 206.836†	7.0	0.6	0.3640	µg/L	0.3640	ppb	17:08:52
2	Se 196.026†	6.6	-10.2	-14.4	µg/L	-14.4	ppb	17:08:52
2	SiO2†	1712.9	-153.5	-28.973	µg/L	-28.973	ppb	17:08:52
2	Si 251.611†	357.1	7.9	0.2349	µg/L	0.2349	ppb	17:08:52
2	Sn 189.927†	5.5	1.7	0.6877	µg/L	0.6877	ppb	17:08:52
2	Ti 334.940†	1263.8	-237.7	-0.4531	µg/L	-0.4531	ppb	17:08:32
2	Tl 190.801†	-20.2	-4.7	-6.5203	µg/L	-6.5203	ppb	17:08:52
2	U 367.007†	275.9	-40.1	-12.540	µg/L	-12.540	ppb	17:08:32
2	V 292.402†	385.6	45.8	0.3303	µg/L	0.3303	ppb	17:08:32
2	Zn 213.857†	531.1	14.5	0.1939	µg/L	0.1939	ppb	17:08:52
3	Sc RADIAL	19776.3	19776.3	92.0	%			17:07:28
3	Al 396.153Radial†	-94.6	-6.5	-11.688	µg/L	-11.688	ppb	17:07:28
3	Ca 317.933Radial†	71.8	11.0	7.4366	µg/L	7.4366	ppb	17:07:48
3	Fe 238.204 Radial†	28.5	0.5	1.5884	µg/L	1.5884	ppb	17:07:48
3	K 766.490 Radial†	577.8	-52.2	-68.202	µg/L	-68.202	ppb	17:07:28
3	Mg 279.077 IEC†	-1.2	-4.5	-31.394	µg/L	-31.394	ppb	17:07:48
3	Na 589.592 Radial†	-30.4	8.8	8.4783	µg/L	8.4783	ppb	17:07:28
3	Sr 421.552†	33.7	-1.4	-0.0163	µg/L	-0.0163	ppb	17:07:28
3	Sc 361.383	1168492.9	1168492.9	97.645	%			17:08:54
3	Y 371.029	693323.8	693323.8	98.125	%			17:08:54
3	Ag 328.068†	467.8	-167.0	-1.1738	µg/L	-1.1738	ppb	17:08:56
3	As 188.979†	-2.4	0.2	0.5672	µg/L	0.5672	ppb	17:09:16
3	B 249.677†	305.2	57.4	0.7387	µg/L	0.7387	ppb	17:09:16
3	Ba 233.527†	-88.4	-0.1	-0.0036	µg/L	-0.0036	ppb	17:09:16
3	Be 313.107†	-5820.1	829.3	0.3667	µg/L	0.3667	ppb	17:08:56
3	Cd 226.502†	-76.0	12.0	0.1932	µg/L	0.1932	ppb	17:09:16
3	Co 228.616†	-100.0	3.2	0.0993	µg/L	0.0993	ppb	17:09:16
3	Cr 267.716†	111.8	-6.7	-0.1202	µg/L	-0.1202	ppb	17:09:16
3	Cu 324.752†	3631.8	-302.9	-2.1369	µg/L	-2.1369	ppb	17:08:56
3	Mn 257.610†	196.6	3.3	0.0113	µg/L	0.0113	ppb	17:09:16
3	Mo 202.031†	-0.3	9.1	1.0942	µg/L	1.0942	ppb	17:09:16
3	Ni 231.604†	-36.5	0.4	0.0109	µg/L	0.0109	ppb	17:09:16
3	P 214.914†	-66.9	-0.4	-0.4108	µg/L	-0.4108	ppb	17:09:16
3	Pb 220.353†	98.8	-7.3	-1.6392	µg/L	-1.6392	ppb	17:09:16
3	S 181.975 Axial†	25.5	1.4	4.7820	µg/L	4.7820	ppb	17:09:16
3	Sb 206.836†	13.2	6.9	4.4300	µg/L	4.4300	ppb	17:09:16
3	Se 196.026†	17.3	0.9	1.28	µg/L	1.28	ppb	17:09:16
3	SiO2†	1742.4	-108.0	-20.383	µg/L	-20.383	ppb	17:09:16
3	Si 251.611†	346.5	0.2	-0.0082	µg/L	-0.0082	ppb	17:09:16
3	Sn 189.927†	-3.2	-7.2	-2.9219	µg/L	-2.9219	ppb	17:09:16
3	Ti 334.940†	1165.3	-327.3	-0.6265	µg/L	-0.6265	ppb	17:08:56
3	Tl 190.801†	-18.3	-3.0	-4.1033	µg/L	-4.1033	ppb	17:09:16
3	U 367.007†	279.9	-33.5	-10.495	µg/L	-10.495	ppb	17:08:56
3	V 292.402†	232.6	-107.5	-0.7746	µg/L	-0.7746	ppb	17:08:56
3	Zn 213.857†	518.7	6.5	0.0883	µg/L	0.0883	ppb	17:09:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1174772.0	98.169	%	0.4599				0.47%
Sc RADIAL	20382.9	94.9	%	2.53				2.66%
Y 371.029	696842.0	98.623	%	0.4373				0.44%
Ag 328.068†	-107.4	-0.7516	µg/L	0.51242	-0.7516	ppb	0.51242	68.18%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	8.1	14.520	µg/L	23.4109	14.520	ppb	23.4109	161.23%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.4	0.9936	µg/L	2.05147	0.9936	ppb	2.05147	206.47%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	50.3	0.6723	µg/L	0.32041	0.6723	ppb	0.32041	47.66%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-10.9	-0.1591	µg/L	0.17939	-0.1591	ppb	0.17939	112.73%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	748.5	0.3310	µg/L	0.03757	0.3310	ppb	0.03757	11.35%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	6.0	4.0994	µg/L	2.97806	4.0994	ppb	2.97806	72.65%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	0.5	0.0085	µg/L	0.16974	0.0085	ppb	0.16974	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	4.9	0.1507	µg/L	0.15237	0.1507	ppb	0.15237	101.14%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                3.2      0.0663 µg/L       0.19988      0.0663 ppb        0.19988 301.70%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -312.0     -2.2000 µg/L       0.62145     -2.2000 ppb        0.62145  28.25%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -0.9     -2.9378 µg/L       7.04485     -2.9378 ppb        7.04485 239.80%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -62.1     -81.060 µg/L       12.0600     -81.060 ppb        12.0600  14.88%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -2.1     -14.830 µg/L       27.9022     -14.830 ppb        27.9022 188.15%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               -6.3     -0.0188 µg/L       0.02656     -0.0188 ppb        0.02656 141.33%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                3.8      0.4519 µg/L       0.56476      0.4519 ppb        0.56476 124.97%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         4.5      4.2863 µg/L       5.57745      4.2863 ppb        5.57745 130.12%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                4.6      0.1410 µg/L       0.24044      0.1410 ppb        0.24044 170.48%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 3.9      3.9689 µg/L       4.02291      3.9689 ppb        4.02291 101.36%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                1.8      0.4244 µg/L       1.85129      0.4244 ppb        1.85129 436.24%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†          -0.7     -2.4533 µg/L       7.33789     -2.4533 ppb        7.33789 299.10%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                1.5      0.9593 µg/L       3.21462      0.9593 ppb        3.21462 335.09%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -3.6       -5.03 µg/L         8.276       -5.03 ppb          8.276 164.48%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                   -133.5     -25.188 µg/L        4.3849     -25.188 ppb         4.3849  17.41%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                1.2      0.0288 µg/L       0.19039      0.0288 ppb        0.19039 662.13%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -2.0     -0.8120 µg/L       1.88059     -0.8120 ppb        1.88059 231.60%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                1.9      0.0223 µg/L       0.06742      0.0223 ppb        0.06742 302.03%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -234.0     -0.4472 µg/L       0.18235     -0.4472 ppb        0.18235  40.78%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -1.0     -1.4098 µg/L       6.86564     -1.4098 ppb        6.86564 486.98%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -30.2     -9.4340 µg/L       3.75110     -9.4340 ppb        3.75110  39.76%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†               -21.2     -0.1540 µg/L       0.56494     -0.1540 ppb        0.56494 366.76%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†               15.0      0.2008 µg/L       0.11612      0.2008 ppb        0.11612  57.83%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 3
Sample ID: 335304011|1339675|10
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 301
Date Collected: 11/7/2013 17:09:25
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304011|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20800.0	20800.0	96.8	%			17:09:56
1	Al 396.153Radial†	-89.1	4.1	14.903	µg/L	14.903	ppb	17:09:56
1	Ca 317.933Radial†	21810.0	22463.9	15213	µg/L	15213	ppb	17:09:56
1	Fe 238.204 Radial†	73.9	45.8	155.33	µg/L	155.33	ppb	17:10:16
1	K 766.490 Radial†	1784.7	1163.7	1513.1	µg/L	1513.1	ppb	17:09:56
1	Mg 279.077 IEC†	1325.9	1366.5	9592.8	µg/L	9592.8	ppb	17:10:16
1	Na 589.592 Radial†	16772.6	17368.9	16723	µg/L	16723	ppb	17:09:56
1	Sr 421.552†	18636.5	19214.5	226.29	µg/L	226.29	ppb	17:09:56
1	Sc 361.383	1167908.6	1167908.6	97.596	%			17:11:18
1	Y 371.029	681266.4	681266.4	96.418	%			17:11:18
1	Ag 328.068†	807.4	181.1	0.8949	µg/L	0.8949	ppb	17:11:20
1	As 188.979†	-2.2	0.5	1.1431	µg/L	1.1431	ppb	17:11:40
1	B 249.677†	6018.1	5911.1	72.638	µg/L	72.638	ppb	17:11:20
1	Ba 233.527†	3471.0	3646.9	53.206	µg/L	53.206	ppb	17:11:40
1	Be 313.107†	-5975.6	666.9	0.2949	µg/L	0.2949	ppb	17:11:20
1	Cd 226.502†	-93.0	-5.5	-0.1078	µg/L	-0.1078	ppb	17:11:40
1	Co 228.616†	-78.6	25.1	0.7936	µg/L	0.7936	ppb	17:11:40
1	Cr 267.716†	130.4	12.4	0.1484	µg/L	0.1484	ppb	17:11:40
1	Cu 324.752†	3598.8	-335.0	-2.2923	µg/L	-2.2923	ppb	17:11:20
1	Mn 257.610†	2797.1	2667.9	7.7689	µg/L	7.7689	ppb	17:11:40
1	Mo 202.031†	-21.0	-12.0	-1.1088	µg/L	-1.1088	ppb	17:11:40
1	Ni 231.604†	18.1	56.3	1.7326	µg/L	1.7326	ppb	17:11:40
1	P 214.914†	-45.5	21.6	21.889	µg/L	21.889	ppb	17:11:40
1	Pb 220.353†	99.7	-6.3	-1.4252	µg/L	-1.4252	ppb	17:11:40
1	S 181.975 Axial†	135.6	114.2	390.95	µg/L	390.95	ppb	17:11:40
1	Sb 206.836†	10.8	4.5	2.8521	µg/L	2.8521	ppb	17:11:40
1	Se 196.026†	15.7	-0.8	-1.11	µg/L	-1.11	ppb	17:11:40
1	SiO2†	19326.2	17909.8	3380.3	µg/L	3380.3	ppb	17:11:20
1	Si 251.611†	51714.7	52634.0	1582.5	µg/L	1582.5	ppb	17:11:20
1	Sn 189.927†	-13.8	-18.1	-5.9317	µg/L	-5.9317	ppb	17:11:40
1	Ti 334.940†	844.1	-655.8	-0.5067	µg/L	-0.5067	ppb	17:11:20
1	Tl 190.801†	-16.5	-1.0	-1.6247	µg/L	-1.6247	ppb	17:11:40
1	U 367.007†	275.5	-37.9	-15.726	µg/L	-15.726	ppb	17:11:20
1	V 292.402†	369.6	33.1	0.2417	µg/L	0.2417	ppb	17:11:20
1	Zn 213.857†	667.3	159.1	1.9055	µg/L	1.9055	ppb	17:11:40
2	Sc RADIAL	20930.6	20930.6	97.4	%			17:10:18
2	Al 396.153Radial†	-69.2	25.2	52.637	µg/L	52.637	ppb	17:10:18
2	Ca 317.933Radial†	22049.8	22569.6	15284	µg/L	15284	ppb	17:10:18
2	Fe 238.204 Radial†	75.6	47.1	159.79	µg/L	159.79	ppb	17:10:38
2	K 766.490 Radial†	1859.9	1229.4	1598.9	µg/L	1598.9	ppb	17:10:18
2	Mg 279.077 IEC†	1301.7	1333.2	9358.7	µg/L	9358.7	ppb	17:10:38
2	Na 589.592 Radial†	16898.8	17390.3	16743	µg/L	16743	ppb	17:10:18
2	Sr 421.552†	18773.0	19234.5	226.52	µg/L	226.52	ppb	17:10:18
2	Sc 361.383	1177020.9	1177020.9	98.357	%			17:11:42
2	Y 371.029	686225.3	686225.3	97.120	%			17:11:42
2	Ag 328.068†	698.9	64.4	0.0412	µg/L	0.0412	ppb	17:11:45
2	As 188.979†	-2.3	0.3	0.8162	µg/L	0.8162	ppb	17:12:05
2	B 249.677†	6188.3	6036.4	74.150	µg/L	74.150	ppb	17:11:45
2	Ba 233.527†	3477.3	3625.8	52.895	µg/L	52.895	ppb	17:12:05
2	Be 313.107†	-6264.9	420.1	0.1858	µg/L	0.1858	ppb	17:11:45
2	Cd 226.502†	-87.7	0.7	-0.0082	µg/L	-0.0082	ppb	17:12:05
2	Co 228.616†	-98.5	5.4	0.1933	µg/L	0.1933	ppb	17:12:05
2	Cr 267.716†	152.1	33.4	0.5316	µg/L	0.5316	ppb	17:12:05
2	Cu 324.752†	3658.9	-302.4	-2.0511	µg/L	-2.0511	ppb	17:11:45
2	Mn 257.610†	2805.9	2654.7	7.7375	µg/L	7.7375	ppb	17:12:05
2	Mo 202.031†	-23.2	-14.2	-1.3714	µg/L	-1.3714	ppb	17:12:05
2	Ni 231.604†	41.1	79.5	2.4479	µg/L	2.4479	ppb	17:12:05
2	P 214.914†	-56.1	11.1	11.169	µg/L	11.169	ppb	17:12:05
2	Pb 220.353†	90.4	-16.6	-3.7802	µg/L	-3.7802	ppb	17:12:05

2	S 181.975 Axial†	130.5	108.0	369.54	µg/L	369.54	ppb	17:12:05
2	Sb 206.836†	6.9	0.4	0.2560	µg/L	0.2560	ppb	17:12:05
2	Se 196.026†	4.9	-11.9	-16.8	µg/L	-16.8	ppb	17:12:05
2	SiO2†	19643.4	18079.1	3412.3	µg/L	3412.3	ppb	17:11:45
2	Si 251.611†	52485.7	53007.6	1593.7	µg/L	1593.7	ppb	17:11:45
2	Sn 189.927†	-15.8	-20.0	-6.7072	µg/L	-6.7072	ppb	17:12:05
2	Ti 334.940†	716.2	-792.6	-0.7800	µg/L	-0.7800	ppb	17:11:45
2	Tl 190.801†	-10.1	5.6	7.5573	µg/L	7.5573	ppb	17:12:05
2	U 367.007†	362.8	48.7	11.339	µg/L	11.339	ppb	17:11:45
2	V 292.402†	295.8	-44.9	-0.3120	µg/L	-0.3120	ppb	17:11:45
2	Zn 213.857†	650.2	136.4	1.6037	µg/L	1.6037	ppb	17:12:05
3	Sc RADIAL	20875.4	20875.4	97.2	%			17:10:40
3	Al 396.153Radial†	-52.9	41.7	82.216	µg/L	82.216	ppb	17:10:40
3	Ca 317.933Radial†	22092.5	22673.3	15354	µg/L	15354	ppb	17:10:40
3	Fe 238.204 Radial†	73.4	45.0	152.49	µg/L	152.49	ppb	17:11:00
3	K 766.490 Radial†	1776.2	1148.3	1492.9	µg/L	1492.9	ppb	17:10:40
3	Mg 279.077 IEC†	1298.6	1333.5	9361.2	µg/L	9361.2	ppb	17:11:00
3	Na 589.592 Radial†	16746.1	17279.0	16636	µg/L	16636	ppb	17:10:40
3	Sr 421.552†	18762.0	19274.2	226.99	µg/L	226.99	ppb	17:10:40
3	Sc 361.383	1194294.1	1194294.1	99.801	%			17:12:07
3	Y 371.029	695709.4	695709.4	98.463	%			17:12:07
3	Ag 328.068†	735.3	90.6	0.2171	µg/L	0.2171	ppb	17:12:09
3	As 188.979†	-5.5	-2.8	-6.3403	µg/L	-6.3403	ppb	17:12:29
3	B 249.677†	5781.2	5537.5	67.988	µg/L	67.988	ppb	17:12:09
3	Ba 233.527†	3483.0	3580.4	52.234	µg/L	52.234	ppb	17:12:29
3	Be 313.107†	-6245.1	532.2	0.2353	µg/L	0.2353	ppb	17:12:09
3	Cd 226.502†	-94.4	-4.8	-0.0959	µg/L	-0.0959	ppb	17:12:29
3	Co 228.616†	-99.9	5.5	0.1942	µg/L	0.1942	ppb	17:12:29
3	Cr 267.716†	133.4	12.4	0.1262	µg/L	0.1262	ppb	17:12:29
3	Cu 324.752†	3580.9	-434.4	-2.9760	µg/L	-2.9760	ppb	17:12:09
3	Mn 257.610†	2805.3	2612.9	7.6098	µg/L	7.6098	ppb	17:12:29
3	Mo 202.031†	-20.1	-10.7	-0.9570	µg/L	-0.9570	ppb	17:12:29
3	Ni 231.604†	19.1	56.9	1.7503	µg/L	1.7503	ppb	17:12:29
3	P 214.914†	-58.5	9.5	9.6093	µg/L	9.6093	ppb	17:12:29
3	Pb 220.353†	116.3	8.1	1.8072	µg/L	1.8072	ppb	17:12:29
3	S 181.975 Axial†	128.4	103.9	355.49	µg/L	355.49	ppb	17:12:29
3	Sb 206.836†	0.6	-5.9	-3.7732	µg/L	-3.7732	ppb	17:12:29
3	Se 196.026†	15.0	-1.8	-2.51	µg/L	-2.51	ppb	17:12:29
3	SiO2†	18643.1	16787.8	3168.5	µg/L	3168.5	ppb	17:12:09
3	Si 251.611†	49893.7	49638.7	1492.5	µg/L	1492.5	ppb	17:12:09
3	Sn 189.927†	-17.8	-21.7	-7.3996	µg/L	-7.3996	ppb	17:12:29
3	Ti 334.940†	829.7	-689.4	-0.5820	µg/L	-0.5820	ppb	17:12:09
3	Tl 190.801†	-13.2	2.6	3.3707	µg/L	3.3707	ppb	17:12:29
3	U 367.007†	401.0	81.6	21.652	µg/L	21.652	ppb	17:12:09
3	V 292.402†	348.9	3.9	0.0527	µg/L	0.0527	ppb	17:12:09
3	Zn 213.857†	660.0	136.7	1.6124	µg/L	1.6124	ppb	17:12:29

Mean Data: 335304011|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1179741.2	98.585	%	1.1199				1.14%
Sc RADIAL	20868.7	97.1	%	0.31				0.31%
Y 371.029	687733.7	97.334	%	1.0386				1.07%
Ag 328.068†	112.0	0.3844	µg/L	0.45076	0.3844	ppb	0.45076	117.27%
Al 396.153Radial†	23.7	49.919	µg/L	33.7388	49.919	ppb	33.7388	67.59%
As 188.979†	-0.7	-1.4603	µg/L	4.22935	-1.4603	ppb	4.22935	289.62%
B 249.677†	5828.3	71.592	µg/L	3.2111	71.592	ppb	3.2111	4.49%
Ba 233.527†	3617.7	52.778	µg/L	0.4961	52.778	ppb	0.4961	0.94%
Be 313.107†	539.7	0.2387	µg/L	0.05463	0.2387	ppb	0.05463	22.89%
Ca 317.933Radial†	22568.9	15284	µg/L	70.9	15284	ppb	70.9	0.46%
Cd 226.502†	-3.2	-0.0707	µg/L	0.05438	-0.0707	ppb	0.05438	76.96%
Co 228.616†	12.0	0.3937	µg/L	0.34635	0.3937	ppb	0.34635	87.97%
Cr 267.716†	19.4	0.2687	µg/L	0.22792	0.2687	ppb	0.22792	84.82%
Cu 324.752†	-357.3	-2.4398	µg/L	0.47976	-2.4398	ppb	0.47976	19.66%
Fe 238.204 Radial†	46.0	155.87	µg/L	3.681	155.87	ppb	3.681	2.36%
K 766.490 Radial†	1180.5	1534.9	µg/L	56.25	1534.9	ppb	56.25	3.66%
Mg 279.077 IEC†	1344.4	9437.6	µg/L	134.44	9437.6	ppb	134.44	1.42%
Mn 257.610†	2645.2	7.7054	µg/L	0.08425	7.7054	ppb	0.08425	1.09%
Mo 202.031†	-12.3	-1.1457	µg/L	0.20963	-1.1457	ppb	0.20963	18.30%
Na 589.592 Radial†	17346.1	16701	µg/L	56.9	16701	ppb	56.9	0.34%

Ni 231.604†	64.2	1.9769	µg/L	0.40795	1.9769	ppb	0.40795	20.64%
P 214.914†	14.1	14.222	µg/L	6.6849	14.222	ppb	6.6849	47.00%
Pb 220.353†	-4.9	-1.1327	µg/L	2.80513	-1.1327	ppb	2.80513	247.64%
S 181.975 Axial†	108.7	371.99	µg/L	17.857	371.99	ppb	17.857	4.80%
Sb 206.836†	-0.3	-0.2217	µg/L	3.33838	-0.2217	ppb	3.33838	>999.9%
Se 196.026†	-4.8	-6.82	µg/L	8.704	-6.82	ppb	8.704	127.69%
SiO2†	17592.2	3320.4	µg/L	132.45	3320.4	ppb	132.45	3.99%
Si 251.611†	51760.1	1556.2	µg/L	55.52	1556.2	ppb	55.52	3.57%
Sn 189.927†	-19.9	-6.6795	µg/L	0.73432	-6.6795	ppb	0.73432	10.99%
Sr 421.552†	19241.1	226.60	µg/L	0.358	226.60	ppb	0.358	0.16%
Ti 334.940†	-712.6	-0.6229	µg/L	0.14118	-0.6229	ppb	0.14118	22.66%
Tl 190.801†	2.4	3.1011	µg/L	4.59693	3.1011	ppb	4.59693	148.24%
U 367.007†	30.8	5.7548	µg/L	19.30410	5.7548	ppb	19.30410	335.44%
V 292.402†	-2.6	-0.0059	µg/L	0.28148	-0.0059	ppb	0.28148	>999.9%
Zn 213.857†	144.1	1.7072	µg/L	0.17180	1.7072	ppb	0.17180	10.06%

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Sequence No.: 4 **Autosampler Location: 302**
Sample ID: 1202969096|1339675|10 **Date Collected: 11/7/2013 17:12:37**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969096|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21002.0	21002.0	97.7	%			17:13:07
1	Al 396.153Radial†	-81.0	13.3	31.654	µg/L	31.654	ppb	17:13:07
1	Ca 317.933Radial†	22957.0	23420.7	15861	µg/L	15861	ppb	17:13:07
1	Fe 238.204 Radial†	78.2	49.4	167.66	µg/L	167.66	ppb	17:13:27
1	K 766.490 Radial†	1846.4	1209.1	1572.0	µg/L	1572.0	ppb	17:13:07
1	Mg 279.077 IEC†	1365.8	1394.2	9787.0	µg/L	9787.0	ppb	17:13:27
1	Na 589.592 Radial†	17493.1	17939.4	17272	µg/L	17272	ppb	17:13:07
1	Sr 421.552†	19505.0	19917.9	234.57	µg/L	234.57	ppb	17:13:07
1	Sc 361.383	1164598.1	1164598.1	97.319	%			17:14:29
1	Y 371.029	679391.1	679391.1	96.153	%			17:14:29
1	Ag 328.068†	745.6	120.0	0.4487	µg/L	0.4487	ppb	17:14:31
1	As 188.979†	-7.6	-5.1	-11.682	µg/L	-11.682	ppb	17:14:51
1	B 249.677†	6104.9	6017.8	73.898	µg/L	73.898	ppb	17:14:31
1	Ba 233.527†	3360.3	3543.3	51.695	µg/L	51.695	ppb	17:14:51
1	Be 313.107†	-6083.4	538.7	0.2382	µg/L	0.2382	ppb	17:14:31
1	Cd 226.502†	-80.9	6.7	0.0872	µg/L	0.0872	ppb	17:14:51
1	Co 228.616†	-99.2	3.7	0.1383	µg/L	0.1383	ppb	17:14:51
1	Cr 267.716†	131.4	13.7	0.1738	µg/L	0.1738	ppb	17:14:51
1	Cu 324.752†	3543.3	-381.5	-2.6184	µg/L	-2.6184	ppb	17:14:31
1	Mn 257.610†	2717.2	2594.0	7.5368	µg/L	7.5368	ppb	17:14:51
1	Mo 202.031†	-27.5	-18.9	-1.9222	µg/L	-1.9222	ppb	17:14:51
1	Ni 231.604†	16.6	54.8	1.6872	µg/L	1.6872	ppb	17:14:51
1	P 214.914†	-61.9	4.5	4.4274	µg/L	4.4274	ppb	17:14:51
1	Pb 220.353†	93.5	-12.4	-2.8070	µg/L	-2.8070	ppb	17:14:51
1	S 181.975 Axial†	119.6	98.2	335.92	µg/L	335.92	ppb	17:14:51
1	Sb 206.836†	7.7	1.4	0.8597	µg/L	0.8597	ppb	17:14:51
1	Se 196.026†	12.3	-4.2	-5.97	µg/L	-5.97	ppb	17:14:51
1	SiO2†	19870.4	18525.3	3496.5	µg/L	3496.5	ppb	17:14:31
1	Si 251.611†	52904.7	54007.4	1623.8	µg/L	1623.8	ppb	17:14:31
1	Sn 189.927†	-13.0	-17.3	-5.5707	µg/L	-5.5707	ppb	17:14:51
1	Ti 334.940†	818.1	-680.1	-0.5190	µg/L	-0.5190	ppb	17:14:31
1	Tl 190.801†	-10.7	4.8	6.4731	µg/L	6.4731	ppb	17:14:51
1	U 367.007†	266.9	-46.0	-18.430	µg/L	-18.430	ppb	17:14:31
1	V 292.402†	429.7	95.9	0.6896	µg/L	0.6896	ppb	17:14:31
1	Zn 213.857†	661.0	154.5	1.8403	µg/L	1.8403	ppb	17:14:51
2	Sc RADIAL	21023.8	21023.8	97.8	%			17:13:29
2	Al 396.153Radial†	-57.1	37.8	75.476	µg/L	75.476	ppb	17:13:29
2	Ca 317.933Radial†	22854.1	23291.2	15773	µg/L	15773	ppb	17:13:29
2	Fe 238.204 Radial†	81.1	52.3	177.39	µg/L	177.39	ppb	17:13:49
2	K 766.490 Radial†	1843.8	1204.5	1566.1	µg/L	1566.1	ppb	17:13:29
2	Mg 279.077 IEC†	1370.1	1397.1	9807.8	µg/L	9807.8	ppb	17:13:49
2	Na 589.592 Radial†	17515.9	17944.1	17277	µg/L	17277	ppb	17:13:29
2	Sr 421.552†	19501.4	19893.6	234.29	µg/L	234.29	ppb	17:13:29
2	Sc 361.383	1145215.6	1145215.6	95.699	%			17:14:53
2	Y 371.029	668006.0	668006.0	94.542	%			17:14:53
2	Ag 328.068†	607.3	-11.6	-0.4938	µg/L	-0.4938	ppb	17:14:55
2	As 188.979†	-3.3	-0.7	-1.6785	µg/L	-1.6785	ppb	17:15:15
2	B 249.677†	6244.9	6270.3	77.019	µg/L	77.019	ppb	17:14:55
2	Ba 233.527†	3634.2	3887.9	56.723	µg/L	56.723	ppb	17:15:15
2	Be 313.107†	-6191.5	320.0	0.1415	µg/L	0.1415	ppb	17:14:55
2	Cd 226.502†	-90.0	-4.2	-0.0895	µg/L	-0.0895	ppb	17:15:15
2	Co 228.616†	-89.2	12.4	0.4062	µg/L	0.4062	ppb	17:15:15
2	Cr 267.716†	150.0	35.5	0.5748	µg/L	0.5748	ppb	17:15:15
2	Cu 324.752†	3438.0	-429.9	-2.9487	µg/L	-2.9487	ppb	17:14:55
2	Mn 257.610†	2903.9	2836.3	8.2740	µg/L	8.2740	ppb	17:15:15
2	Mo 202.031†	-31.4	-23.3	-2.4601	µg/L	-2.4601	ppb	17:15:15
2	Ni 231.604†	24.5	63.3	1.9482	µg/L	1.9482	ppb	17:15:15
2	P 214.914†	-53.3	12.5	12.612	µg/L	12.612	ppb	17:15:15
2	Pb 220.353†	101.0	-2.9	-0.6766	µg/L	-0.6766	ppb	17:15:15

2	S 181.975 Axial†	126.2	107.1	366.57	µg/L	366.57	ppb	17:15:15
2	Sb 206.836†	3.1	-3.3	-2.1501	µg/L	-2.1501	ppb	17:15:15
2	Se 196.026†	17.6	1.6	2.26	µg/L	2.26	ppb	17:15:15
2	SiO2†	20063.1	19072.2	3599.7	µg/L	3599.7	ppb	17:14:55
2	Si 251.611†	53630.0	55685.4	1674.3	µg/L	1674.3	ppb	17:14:55
2	Sn 189.927†	-18.6	-23.3	-8.0037	µg/L	-8.0037	ppb	17:15:15
2	Ti 334.940†	779.7	-705.9	-0.5827	µg/L	-0.5827	ppb	17:14:55
2	Tl 190.801†	-13.0	2.3	2.9521	µg/L	2.9521	ppb	17:15:15
2	U 367.007†	314.8	8.8	-1.3367	µg/L	-1.3367	ppb	17:14:55
2	V 292.402†	492.6	169.1	1.2282	µg/L	1.2282	ppb	17:14:55
2	Zn 213.857†	668.3	173.6	2.0910	µg/L	2.0910	ppb	17:15:15
3	Sc RADIAL	21011.7	21011.7	97.8	%			17:13:51
3	Al 396.153Radial†	-99.3	-5.3	-1.6289	µg/L	-1.6289	ppb	17:13:51
3	Ca 317.933Radial†	22976.9	23430.2	15867	µg/L	15867	ppb	17:13:51
3	Fe 238.204 Radial†	80.0	51.3	174.00	µg/L	174.00	ppb	17:14:11
3	K 766.490 Radial†	1830.8	1192.2	1550.0	µg/L	1550.0	ppb	17:13:51
3	Mg 279.077 IEC†	1335.3	1362.3	9563.6	µg/L	9563.6	ppb	17:14:11
3	Na 589.592 Radial†	17493.1	17931.1	17264	µg/L	17264	ppb	17:13:51
3	Sr 421.552†	19599.8	20005.7	235.61	µg/L	235.61	ppb	17:13:51
3	Sc 361.383	1168072.6	1168072.6	97.609	%			17:15:17
3	Y 371.029	681778.4	681778.4	96.491	%			17:15:17
3	Ag 328.068†	630.0	-0.7	-0.4176	µg/L	-0.4176	ppb	17:15:19
3	As 188.979†	-6.4	-3.8	-8.6836	µg/L	-8.6836	ppb	17:15:39
3	B 249.677†	6066.1	5959.4	73.154	µg/L	73.154	ppb	17:15:19
3	Ba 233.527†	3614.4	3793.3	55.342	µg/L	55.342	ppb	17:15:39
3	Be 313.107†	-5959.3	684.5	0.3027	µg/L	0.3027	ppb	17:15:19
3	Cd 226.502†	-84.1	3.7	0.0378	µg/L	0.0378	ppb	17:15:39
3	Co 228.616†	-101.0	2.1	0.0943	µg/L	0.0943	ppb	17:15:39
3	Cr 267.716†	147.7	30.1	0.4767	µg/L	0.4767	ppb	17:15:39
3	Cu 324.752†	3439.9	-498.3	-3.4335	µg/L	-3.4335	ppb	17:15:19
3	Mn 257.610†	2902.3	2775.3	8.0974	µg/L	8.0974	ppb	17:15:39
3	Mo 202.031†	-21.7	-12.8	-1.2010	µg/L	-1.2010	ppb	17:15:39
3	Ni 231.604†	5.6	43.5	1.3370	µg/L	1.3370	ppb	17:15:39
3	P 214.914†	-48.9	18.0	18.231	µg/L	18.231	ppb	17:15:39
3	Pb 220.353†	101.9	-4.0	-0.9182	µg/L	-0.9182	ppb	17:15:39
3	S 181.975 Axial†	137.0	115.6	395.80	µg/L	395.80	ppb	17:15:39
3	Sb 206.836†	8.0	1.7	1.0535	µg/L	1.0535	ppb	17:15:39
3	Se 196.026†	15.0	-1.4	-2.03	µg/L	-2.03	ppb	17:15:39
3	SiO2†	19996.2	18593.5	3509.3	µg/L	3509.3	ppb	17:15:19
3	Si 251.611†	53552.6	54509.5	1638.9	µg/L	1638.9	ppb	17:15:19
3	Sn 189.927†	-14.8	-19.1	-6.2914	µg/L	-6.2914	ppb	17:15:39
3	Ti 334.940†	757.1	-745.1	-0.6509	µg/L	-0.6509	ppb	17:15:19
3	Tl 190.801†	-13.5	2.0	2.6455	µg/L	2.6455	ppb	17:15:39
3	U 367.007†	313.6	1.1	-3.7298	µg/L	-3.7298	ppb	17:15:19
3	V 292.402†	437.9	103.0	0.7603	µg/L	0.7603	ppb	17:15:19
3	Zn 213.857†	681.4	173.4	2.0971	µg/L	2.0971	ppb	17:15:39

Mean Data: 1202969096|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1159295.5	96.876	%	1.0292				1.06%
Sc RADIAL	21012.5	97.8	%	0.05				0.05%
Y 371.029	676391.8	95.729	%	1.0416				1.09%
Ag 328.068†	35.9	-0.1542	µg/L	0.52353	-0.1542	ppb	0.52353	339.42%
Al 396.153Radial†	15.3	35.167	µg/L	38.6721	35.167	ppb	38.6721	109.97%
As 188.979†	-3.2	-7.3482	µg/L	5.13389	-7.3482	ppb	5.13389	69.87%
B 249.677†	6082.5	74.690	µg/L	2.0506	74.690	ppb	2.0506	2.75%
Ba 233.527†	3741.5	54.587	µg/L	2.5979	54.587	ppb	2.5979	4.76%
Be 313.107†	514.4	0.2275	µg/L	0.08112	0.2275	ppb	0.08112	35.66%
Ca 317.933Radial†	23380.7	15834	µg/L	52.6	15834	ppb	52.6	0.33%
Cd 226.502†	2.1	0.0118	µg/L	0.09117	0.0118	ppb	0.09117	773.02%
Co 228.616†	6.1	0.2129	µg/L	0.16881	0.2129	ppb	0.16881	79.27%
Cr 267.716†	26.4	0.4084	µg/L	0.20907	0.4084	ppb	0.20907	51.19%
Cu 324.752†	-436.6	-3.0002	µg/L	0.40999	-3.0002	ppb	0.40999	13.67%
Fe 238.204 Radial†	51.0	173.02	µg/L	4.943	173.02	ppb	4.943	2.86%
K 766.490 Radial†	1201.9	1562.7	µg/L	11.37	1562.7	ppb	11.37	0.73%
Mg 279.077 IEC†	1384.5	9719.5	µg/L	135.36	9719.5	ppb	135.36	1.39%
Mn 257.610†	2735.2	7.9694	µg/L	0.38492	7.9694	ppb	0.38492	4.83%
Mo 202.031†	-18.3	-1.8611	µg/L	0.63180	-1.8611	ppb	0.63180	33.95%
Na 589.592 Radial†	17938.2	17271	µg/L	6.3	17271	ppb	6.3	0.04%

Ni 231.604†	53.9	1.6575	µg/L	0.30669	1.6575	ppb	0.30669	18.50%
P 214.914†	11.7	11.757	µg/L	6.9413	11.757	ppb	6.9413	59.04%
Pb 220.353†	-6.4	-1.4673	µg/L	1.16651	-1.4673	ppb	1.16651	79.50%
S 181.975 Axial†	107.0	366.10	µg/L	29.943	366.10	ppb	29.943	8.18%
Sb 206.836†	-0.1	-0.0790	µg/L	1.79624	-0.0790	ppb	1.79624	>999.9%
Se 196.026†	-1.4	-1.91	µg/L	4.114	-1.91	ppb	4.114	214.89%
SiO2†	18730.3	3535.2	µg/L	56.26	3535.2	ppb	56.26	1.59%
Si 251.611†	54734.1	1645.7	µg/L	25.90	1645.7	ppb	25.90	1.57%
Sn 189.927†	-19.9	-6.6219	µg/L	1.24975	-6.6219	ppb	1.24975	18.87%
Sr 421.552†	19939.1	234.82	µg/L	0.695	234.82	ppb	0.695	0.30%
Ti 334.940†	-710.4	-0.5842	µg/L	0.06593	-0.5842	ppb	0.06593	11.28%
Tl 190.801†	3.0	4.0236	µg/L	2.12689	4.0236	ppb	2.12689	52.86%
U 367.007†	-12.0	-7.8321	µg/L	9.25560	-7.8321	ppb	9.25560	118.18%
V 292.402†	122.7	0.8927	µg/L	0.29266	0.8927	ppb	0.29266	32.78%
Zn 213.857†	167.2	2.0095	µg/L	0.14653	2.0095	ppb	0.14653	7.29%

Sequence No.: 5
Sample ID: 1202969097|1339675|10
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 303
Date Collected: 11/7/2013 17:15:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1202969097|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20152.3	20152.3	93.8	%			17:16:18
1	Al 396.153Radial†	275.2	389.6	704.44	µg/L	704.44	ppb	17:16:18
1	Ca 317.933Radial†	23275.8	24751.0	16761	µg/L	16761	ppb	17:16:18
1	Fe 238.204 Radial†	225.1	209.5	708.96	µg/L	708.96	ppb	17:16:38
1	K 766.490 Radial†	2240.7	1709.2	2225.6	µg/L	2225.6	ppb	17:16:18
1	Mg 279.077 IEC†	1440.1	1532.3	10757	µg/L	10757	ppb	17:16:38
1	Na 589.592 Radial†	18414.6	19676.6	18945	µg/L	18945	ppb	17:16:18
1	Sr 421.552†	23890.8	25435.7	299.58	µg/L	299.58	ppb	17:16:18
1	Sc 361.383	1157582.5	1157582.5	96.733	%			17:17:39
1	Y 371.029	675098.4	675098.4	95.546	%			17:17:39
1	Ag 328.068†	8020.9	7645.6	53.766	µg/L	53.766	ppb	17:17:41
1	As 188.979†	16.9	20.2	46.646	µg/L	46.646	ppb	17:18:01
1	B 249.677†	10462.2	10560.3	128.52	µg/L	128.52	ppb	17:17:41
1	Ba 233.527†	7124.3	7455.3	108.90	µg/L	108.90	ppb	17:17:41
1	Be 313.107†	107986.0	118422.9	52.364	µg/L	52.364	ppb	17:17:39
1	Cd 226.502†	2967.5	3157.5	50.954	µg/L	50.954	ppb	17:18:01
1	Co 228.616†	1531.8	1689.1	51.602	µg/L	51.602	ppb	17:18:01
1	Cr 267.716†	2596.5	2563.0	48.495	µg/L	48.495	ppb	17:18:01
1	Cu 324.752†	10292.3	6617.5	46.759	µg/L	46.759	ppb	17:17:41
1	Mn 257.610†	18247.1	18665.3	56.449	µg/L	56.449	ppb	17:17:41
1	Mo 202.031†	364.9	386.7	46.929	µg/L	46.929	ppb	17:18:01
1	Ni 231.604†	1467.3	1554.6	47.863	µg/L	47.863	ppb	17:18:01
1	P 214.914†	4.2	72.5	72.567	µg/L	72.567	ppb	17:18:01
1	Pb 220.353†	337.5	240.5	54.726	µg/L	54.726	ppb	17:18:01
1	S 181.975 Axial†	270.7	255.1	875.39	µg/L	875.39	ppb	17:18:01
1	Sb 206.836†	77.7	73.8	46.993	µg/L	46.993	ppb	17:18:01
1	Se 196.026†	45.4	30.1	42.8	µg/L	42.8	ppb	17:18:01
1	SiO2†	25190.5	24148.8	4558.8	µg/L	4558.8	ppb	17:17:41
1	Si 251.611†	68724.8	70691.3	2124.8	µg/L	2124.8	ppb	17:17:41
1	Sn 189.927†	102.1	101.6	42.621	µg/L	42.621	ppb	17:18:01
1	Ti 334.940†	25300.4	24634.2	48.395	µg/L	48.395	ppb	17:17:41
1	Tl 190.801†	19.4	35.9	49.000	µg/L	49.000	ppb	17:18:01
1	U 367.007†	464.4	160.0	42.780	µg/L	42.780	ppb	17:17:41
1	V 292.402†	6795.3	6679.2	49.402	µg/L	49.402	ppb	17:17:41
1	Zn 213.857†	4136.2	3751.2	49.207	µg/L	49.207	ppb	17:18:01
2	Sc RADIAL	20060.9	20060.9	93.4	%			17:16:40
2	Al 396.153Radial†	229.9	342.5	620.13	µg/L	620.13	ppb	17:16:40
2	Ca 317.933Radial†	23280.5	24869.1	16841	µg/L	16841	ppb	17:16:40
2	Fe 238.204 Radial†	225.0	210.5	712.55	µg/L	712.55	ppb	17:17:00
2	K 766.490 Radial†	2317.4	1802.2	2347.1	µg/L	2347.1	ppb	17:16:40
2	Mg 279.077 IEC†	1450.4	1550.3	10883	µg/L	10883	ppb	17:17:00
2	Na 589.592 Radial†	18294.0	19636.9	18906	µg/L	18906	ppb	17:16:40
2	Sr 421.552†	23836.1	25493.2	300.26	µg/L	300.26	ppb	17:16:40
2	Sc 361.383	1187518.3	1187518.3	99.234	%			17:18:03
2	Y 371.029	692430.6	692430.6	97.999	%			17:18:03
2	Ag 328.068†	8026.9	7442.6	52.328	µg/L	52.328	ppb	17:18:05
2	As 188.979†	17.2	20.0	46.283	µg/L	46.283	ppb	17:18:25
2	B 249.677†	10551.3	10377.5	126.17	µg/L	126.17	ppb	17:18:05
2	Ba 233.527†	7112.3	7257.6	106.01	µg/L	106.01	ppb	17:18:05
2	Be 313.107†	112725.1	120384.4	53.231	µg/L	53.231	ppb	17:18:03
2	Cd 226.502†	2962.5	3075.2	49.622	µg/L	49.622	ppb	17:18:25
2	Co 228.616†	1520.6	1637.9	50.038	µg/L	50.038	ppb	17:18:25
2	Cr 267.716†	2579.6	2478.2	46.890	µg/L	46.890	ppb	17:18:25
2	Cu 324.752†	10424.2	6482.3	45.805	µg/L	45.805	ppb	17:18:05
2	Mn 257.610†	18244.2	18186.9	54.987	µg/L	54.987	ppb	17:18:05
2	Mo 202.031†	358.6	370.8	45.018	µg/L	45.018	ppb	17:18:25
2	Ni 231.604†	1483.2	1532.4	47.181	µg/L	47.181	ppb	17:18:25
2	P 214.914†	-0.3	67.8	67.769	µg/L	67.769	ppb	17:18:25
2	Pb 220.353†	333.6	227.7	51.825	µg/L	51.825	ppb	17:18:25

2	S 181.975 Axial†	272.0	249.4	855.78 µg/L	855.78 ppb	17:18:25
2	Sb 206.836†	77.7	71.7	45.669 µg/L	45.669 ppb	17:18:25
2	Se 196.026†	50.0	33.5	47.7 µg/L	47.7 ppb	17:18:25
2	SiO2†	25240.0	23542.3	4444.3 µg/L	4444.3 ppb	17:18:05
2	Si 251.611†	68826.2	69002.5	2074.1 µg/L	2074.1 ppb	17:18:05
2	Sn 189.927†	100.0	96.9	40.713 µg/L	40.713 ppb	17:18:25
2	Ti 334.940†	25142.9	23816.2	46.822 µg/L	46.822 ppb	17:18:05
2	Tl 190.801†	19.9	35.8	48.938 µg/L	48.938 ppb	17:18:25
2	U 367.007†	455.4	138.7	36.105 µg/L	36.105 ppb	17:18:05
2	V 292.402†	6759.6	6466.1	47.822 µg/L	47.822 ppb	17:18:05
2	Zn 213.857†	4085.6	3592.4	47.101 µg/L	47.101 ppb	17:18:25
3	Sc RADIAL	20660.9	20660.9	96.2 %		17:17:02
3	Al 396.153Radial†	284.1	391.7	708.34 µg/L	708.34 ppb	17:17:02
3	Ca 317.933Radial†	24263.2	25166.9	17043 µg/L	17043 ppb	17:17:02
3	Fe 238.204 Radial†	223.3	201.7	682.71 µg/L	682.71 ppb	17:17:22
3	K 766.490 Radial†	2225.2	1634.2	2127.8 µg/L	2127.8 ppb	17:17:02
3	Mg 279.077 IEC†	1429.7	1483.7	10416 µg/L	10416 ppb	17:17:22
3	Na 589.592 Radial†	18748.2	19540.1	18813 µg/L	18813 ppb	17:17:02
3	Sr 421.552†	24557.7	25502.3	300.36 µg/L	300.36 ppb	17:17:02
3	Sc 361.383	1178863.8	1178863.8	98.511 %		17:18:28
3	Y 371.029	688036.6	688036.6	97.377 %		17:18:28
3	Ag 328.068†	8015.3	7490.2	52.656 µg/L	52.656 ppb	17:18:30
3	As 188.979†	12.9	15.8	36.776 µg/L	36.776 ppb	17:18:50
3	B 249.677†	10488.0	10391.3	126.54 µg/L	126.54 ppb	17:18:30
3	Ba 233.527†	7151.1	7349.5	107.35 µg/L	107.35 ppb	17:18:30
3	Be 313.107†	110121.8	118575.8	52.431 µg/L	52.431 ppb	17:18:28
3	Cd 226.502†	2980.3	3115.2	50.274 µg/L	50.274 ppb	17:18:50
3	Co 228.616†	1535.8	1664.6	50.854 µg/L	50.854 ppb	17:18:50
3	Cr 267.716†	2610.4	2528.6	47.843 µg/L	47.843 ppb	17:18:50
3	Cu 324.752†	10267.3	6400.1	45.225 µg/L	45.225 ppb	17:18:30
3	Mn 257.610†	18162.4	18238.8	55.162 µg/L	55.162 ppb	17:18:30
3	Mo 202.031†	360.1	375.0	45.506 µg/L	45.506 ppb	17:18:50
3	Ni 231.604†	1481.0	1541.1	47.449 µg/L	47.449 ppb	17:18:50
3	P 214.914†	4.6	72.8	72.907 µg/L	72.907 ppb	17:18:50
3	Pb 220.353†	325.1	221.5	50.415 µg/L	50.415 ppb	17:18:50
3	S 181.975 Axial†	271.4	250.7	860.33 µg/L	860.33 ppb	17:18:50
3	Sb 206.836†	80.4	75.0	47.778 µg/L	47.778 ppb	17:18:50
3	Se 196.026†	45.4	29.2	41.5 µg/L	41.5 ppb	17:18:50
3	SiO2†	25046.1	23532.1	4442.4 µg/L	4442.4 ppb	17:18:30
3	Si 251.611†	68591.8	69273.8	2082.2 µg/L	2082.2 ppb	17:18:30
3	Sn 189.927†	102.5	100.1	42.029 µg/L	42.029 ppb	17:18:50
3	Ti 334.940†	25311.4	24173.2	47.519 µg/L	47.519 ppb	17:18:30
3	Tl 190.801†	17.1	33.2	45.324 µg/L	45.324 ppb	17:18:50
3	U 367.007†	483.3	170.4	46.149 µg/L	46.149 ppb	17:18:30
3	V 292.402†	6918.8	6677.7	49.371 µg/L	49.371 ppb	17:18:30
3	Zn 213.857†	4136.8	3674.7	48.204 µg/L	48.204 ppb	17:18:50

Mean Data: 1202969097|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1174654.9	98.160	%	1.2873				1.31%
Sc RADIAL	20291.4	94.4	%	1.50				1.59%
Y 371.029	685188.5	96.974	%	1.2752				1.32%
Ag 328.068†	7526.2	52.917	µg/L	0.7535	52.917	ppb	0.7535	1.42%
Al 396.153Radial†	374.6	677.64	µg/L	49.841	677.64	ppb	49.841	7.36%
As 188.979†	18.7	43.235	µg/L	5.5968	43.235	ppb	5.5968	12.94%
B 249.677†	10443.0	127.08	µg/L	1.264	127.08	ppb	1.264	0.99%
Ba 233.527†	7354.1	107.42	µg/L	1.446	107.42	ppb	1.446	1.35%
Be 313.107†	119127.7	52.675	µg/L	0.4824	52.675	ppb	0.4824	0.92%
Ca 317.933Radial†	24929.0	16882	µg/L	145.2	16882	ppb	145.2	0.86%
Cd 226.502†	3116.0	50.283	µg/L	0.6660	50.283	ppb	0.6660	1.32%
Co 228.616†	1663.9	50.831	µg/L	0.7825	50.831	ppb	0.7825	1.54%
Cr 267.716†	2523.3	47.743	µg/L	0.8073	47.743	ppb	0.8073	1.69%
Cu 324.752†	6500.0	45.929	µg/L	0.7746	45.929	ppb	0.7746	1.69%
Fe 238.204 Radial†	207.2	701.41	µg/L	16.288	701.41	ppb	16.288	2.32%
K 766.490 Radial†	1715.2	2233.5	µg/L	109.88	2233.5	ppb	109.88	4.92%
Mg 279.077 IEC†	1522.1	10685	µg/L	241.9	10685	ppb	241.9	2.26%
Mn 257.610†	18363.7	55.533	µg/L	0.7981	55.533	ppb	0.7981	1.44%
Mo 202.031†	377.5	45.818	µg/L	0.9928	45.818	ppb	0.9928	2.17%
Na 589.592 Radial†	19617.8	18888	µg/L	67.6	18888	ppb	67.6	0.36%

Ni 231.604†	1542.7	47.498	µg/L	0.3433	47.498	ppb	0.3433	0.72%
P 214.914†	71.1	71.081	µg/L	2.8731	71.081	ppb	2.8731	4.04%
Pb 220.353†	229.9	52.322	µg/L	2.1978	52.322	ppb	2.1978	4.20%
S 181.975 Axial†	251.7	863.83	µg/L	10.262	863.83	ppb	10.262	1.19%
Sb 206.836†	73.5	46.813	µg/L	1.0658	46.813	ppb	1.0658	2.28%
Se 196.026†	30.9	44.0	µg/L	3.26	44.0	ppb	3.26	7.40%
SiO2†	23741.1	4481.8	µg/L	66.67	4481.8	ppb	66.67	1.49%
Si 251.611†	69655.9	2093.7	µg/L	27.25	2093.7	ppb	27.25	1.30%
Sn 189.927†	99.5	41.788	µg/L	0.9763	41.788	ppb	0.9763	2.34%
Sr 421.552†	25477.1	300.07	µg/L	0.424	300.07	ppb	0.424	0.14%
Ti 334.940†	24207.9	47.579	µg/L	0.7883	47.579	ppb	0.7883	1.66%
Tl 190.801†	35.0	47.754	µg/L	2.1046	47.754	ppb	2.1046	4.41%
U 367.007†	156.4	41.678	µg/L	5.1118	41.678	ppb	5.1118	12.26%
V 292.402†	6607.7	48.865	µg/L	0.9036	48.865	ppb	0.9036	1.85%
Zn 213.857†	3672.8	48.171	µg/L	1.0535	48.171	ppb	1.0535	2.19%

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Sequence No.: 6 **Autosampler Location: 304**
Sample ID: 1202969098|1339675|50 **Date Collected: 11/7/2013 17:18:58**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 1202969098|1339675|50

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20992.3	20992.3	97.7	%			17:19:46
1	Al 396.153Radial†	-75.5	19.0	35.411	µg/L	35.411	ppb	17:19:46
1	Ca 317.933Radial†	4445.3	4483.2	3036.1	µg/L	3036.1	ppb	17:19:46
1	Fe 238.204 Radial†	36.1	6.4	21.794	µg/L	21.794	ppb	17:20:06
1	K 766.490 Radial†	820.4	159.7	207.26	µg/L	207.26	ppb	17:19:46
1	Mg 279.077 IEC†	257.8	260.6	1829.7	µg/L	1829.7	ppb	17:20:06
1	Na 589.592 Radial†	3357.1	3478.1	3348.7	µg/L	3348.7	ppb	17:19:46
1	Sr 421.552†	3757.7	3808.4	44.851	µg/L	44.851	ppb	17:19:46
1	Sc 361.383	1180377.6	1180377.6	98.638	%			17:21:43
1	Y 371.029	694666.7	694666.7	98.315	%			17:21:43
1	Ag 328.068†	644.4	7.1	-0.0260	µg/L	-0.0260	ppb	17:21:45
1	As 188.979†	-3.2	-0.6	-1.3270	µg/L	-1.3270	ppb	17:22:05
1	B 249.677†	1343.7	1107.0	13.662	µg/L	13.662	ppb	17:21:45
1	Ba 233.527†	604.4	703.2	10.258	µg/L	10.258	ppb	17:22:05
1	Be 313.107†	-5809.4	900.1	0.3980	µg/L	0.3980	ppb	17:21:45
1	Cd 226.502†	-69.3	19.6	0.3136	µg/L	0.3136	ppb	17:22:05
1	Co 228.616†	-105.5	-1.3	-0.0337	µg/L	-0.0337	ppb	17:22:05
1	Cr 267.716†	124.5	5.0	0.0786	µg/L	0.0786	ppb	17:22:05
1	Cu 324.752†	3688.5	-283.0	-1.9806	µg/L	-1.9806	ppb	17:21:45
1	Mn 257.610†	701.7	513.3	1.4952	µg/L	1.4952	ppb	17:22:05
1	Mo 202.031†	-10.1	-0.8	-0.0361	µg/L	-0.0361	ppb	17:22:05
1	Ni 231.604†	-29.4	8.0	0.2448	µg/L	0.2448	ppb	17:22:05
1	P 214.914†	-74.6	-7.5	-7.6655	µg/L	-7.6655	ppb	17:22:05
1	Pb 220.353†	92.8	-14.3	-3.2541	µg/L	-3.2541	ppb	17:22:05
1	S 181.975 Axial†	41.5	17.3	59.133	µg/L	59.133	ppb	17:22:05
1	Sb 206.836†	4.8	-1.6	-1.0272	µg/L	-1.0272	ppb	17:22:05
1	Se 196.026†	11.8	-4.9	-6.88	µg/L	-6.88	ppb	17:22:05
1	SiO2†	5048.1	3225.3	608.75	µg/L	608.75	ppb	17:21:45
1	Si 251.611†	10324.4	10112.3	304.04	µg/L	304.04	ppb	17:21:45
1	Sn 189.927†	-1.1	-5.1	-1.7693	µg/L	-1.7693	ppb	17:22:05
1	Ti 334.940†	1177.3	-327.1	-0.4795	µg/L	-0.4795	ppb	17:21:45
1	Tl 190.801†	-7.2	8.6	11.839	µg/L	11.839	ppb	17:22:05
1	U 367.007†	305.3	-10.7	-4.0565	µg/L	-4.0565	ppb	17:21:45
1	V 292.402†	323.4	-17.7	-0.1284	µg/L	-0.1284	ppb	17:21:45
1	Zn 213.857†	565.0	48.1	0.6016	µg/L	0.6016	ppb	17:22:05
2	Sc RADIAL	20710.3	20710.3	96.4	%			17:20:26
2	Al 396.153Radial†	-86.2	6.8	13.689	µg/L	13.689	ppb	17:20:26
2	Ca 317.933Radial†	4369.7	4466.7	3024.8	µg/L	3024.8	ppb	17:20:26
2	Fe 238.204 Radial†	33.5	4.2	14.381	µg/L	14.381	ppb	17:20:46
2	K 766.490 Radial†	809.4	159.8	207.36	µg/L	207.36	ppb	17:20:26
2	Mg 279.077 IEC†	264.6	271.4	1905.0	µg/L	1905.0	ppb	17:20:46
2	Na 589.592 Radial†	3281.4	3446.5	3318.2	µg/L	3318.2	ppb	17:20:26
2	Sr 421.552†	3716.8	3818.3	44.968	µg/L	44.968	ppb	17:20:26
2	Sc 361.383	1145146.8	1145146.8	95.694	%			17:22:08
2	Y 371.029	673690.6	673690.6	95.346	%			17:22:08
2	Ag 328.068†	457.4	-168.2	-1.2535	µg/L	-1.2535	ppb	17:22:10
2	As 188.979†	-2.2	0.4	0.9855	µg/L	0.9855	ppb	17:22:30
2	B 249.677†	1303.9	1107.4	13.694	µg/L	13.694	ppb	17:22:10
2	Ba 233.527†	617.7	735.9	10.736	µg/L	10.736	ppb	17:22:30
2	Be 313.107†	-5792.1	736.9	0.3259	µg/L	0.3259	ppb	17:22:10
2	Cd 226.502†	-78.3	8.1	0.1288	µg/L	0.1288	ppb	17:22:30
2	Co 228.616†	-97.0	4.2	0.1353	µg/L	0.1353	ppb	17:22:30
2	Cr 267.716†	112.0	-4.1	-0.0875	µg/L	-0.0875	ppb	17:22:30
2	Cu 324.752†	3519.9	-344.1	-2.4171	µg/L	-2.4171	ppb	17:22:10
2	Mn 257.610†	705.8	539.5	1.5718	µg/L	1.5718	ppb	17:22:30
2	Mo 202.031†	-10.8	-1.9	-0.1577	µg/L	-0.1577	ppb	17:22:30
2	Ni 231.604†	-21.8	15.0	0.4603	µg/L	0.4603	ppb	17:22:30
2	P 214.914†	-58.0	7.5	7.7280	µg/L	7.7280	ppb	17:22:30
2	Pb 220.353†	107.7	4.1	0.9426	µg/L	0.9426	ppb	17:22:30

2	S 181.975 Axial†	45.7	23.1	78.993	µg/L	78.993	ppb	17:22:30
2	Sb 206.836†	3.5	-2.9	-1.8485	µg/L	-1.8485	ppb	17:22:30
2	Se 196.026†	3.3	-13.4	-19.0	µg/L	-19.0	ppb	17:22:30
2	SiO2†	5071.1	3406.9	643.01	µg/L	643.01	ppb	17:22:10
2	Si 251.611†	9987.8	10082.7	303.15	µg/L	303.15	ppb	17:22:10
2	Sn 189.927†	-0.3	-4.2	-1.4219	µg/L	-1.4219	ppb	17:22:30
2	Ti 334.940†	1364.2	-95.1	-0.0254	µg/L	-0.0254	ppb	17:22:10
2	Tl 190.801†	-17.9	-2.9	-4.0075	µg/L	-4.0075	ppb	17:22:30
2	U 367.007†	256.5	-52.1	-16.980	µg/L	-16.980	ppb	17:22:10
2	V 292.402†	343.8	13.6	0.0893	µg/L	0.0893	ppb	17:22:10
2	Zn 213.857†	563.9	64.7	0.8197	µg/L	0.8197	ppb	17:22:30
3	Sc RADIAL	20734.1	20734.1	96.5	%			17:21:06
3	Al 396.153Radial†	-77.1	16.3	30.702	µg/L	30.702	ppb	17:21:06
3	Ca 317.933Radial†	4409.2	4502.4	3049.1	µg/L	3049.1	ppb	17:21:06
3	Fe 238.204 Radial†	34.3	5.0	17.046	µg/L	17.046	ppb	17:21:26
3	K 766.490 Radial†	831.3	181.6	235.76	µg/L	235.76	ppb	17:21:06
3	Mg 279.077 IEC†	263.8	270.1	1896.3	µg/L	1896.3	ppb	17:21:26
3	Na 589.592 Radial†	3294.5	3456.0	3327.5	µg/L	3327.5	ppb	17:21:06
3	Sr 421.552†	3729.8	3827.4	45.075	µg/L	45.075	ppb	17:21:06
3	Sc 361.383	1179061.5	1179061.5	98.528	%			17:22:32
3	Y 371.029	693682.6	693682.6	98.176	%			17:22:32
3	Ag 328.068†	589.9	-47.4	-0.4229	µg/L	-0.4229	ppb	17:22:34
3	As 188.979†	-4.1	-1.4	-3.2492	µg/L	-3.2492	ppb	17:22:54
3	B 249.677†	1292.2	1056.3	13.033	µg/L	13.033	ppb	17:22:34
3	Ba 233.527†	603.1	702.5	10.249	µg/L	10.249	ppb	17:22:54
3	Be 313.107†	-5744.3	959.6	0.4243	µg/L	0.4243	ppb	17:22:34
3	Cd 226.502†	-99.9	-11.5	-0.1880	µg/L	-0.1880	ppb	17:22:54
3	Co 228.616†	-110.4	-6.5	-0.1926	µg/L	-0.1926	ppb	17:22:54
3	Cr 267.716†	139.3	20.2	0.3575	µg/L	0.3575	ppb	17:22:54
3	Cu 324.752†	3648.1	-319.8	-2.2335	µg/L	-2.2335	ppb	17:22:34
3	Mn 257.610†	725.6	538.4	1.5690	µg/L	1.5690	ppb	17:22:54
3	Mo 202.031†	-14.8	-5.6	-0.6088	µg/L	-0.6088	ppb	17:22:54
3	Ni 231.604†	-18.2	19.3	0.5949	µg/L	0.5949	ppb	17:22:54
3	P 214.914†	-57.2	10.1	10.335	µg/L	10.335	ppb	17:22:54
3	Pb 220.353†	93.6	-13.4	-3.0558	µg/L	-3.0558	ppb	17:22:54
3	S 181.975 Axial†	43.3	19.2	65.691	µg/L	65.691	ppb	17:22:54
3	Sb 206.836†	3.3	-3.2	-2.0620	µg/L	-2.0620	ppb	17:22:54
3	Se 196.026†	11.3	-5.4	-7.67	µg/L	-7.67	ppb	17:22:54
3	SiO2†	5259.0	3445.1	650.24	µg/L	650.24	ppb	17:22:34
3	Si 251.611†	10386.1	10186.7	306.28	µg/L	306.28	ppb	17:22:34
3	Sn 189.927†	1.8	-2.1	-0.5581	µg/L	-0.5581	ppb	17:22:54
3	Ti 334.940†	1325.0	-175.9	-0.1933	µg/L	-0.1933	ppb	17:22:34
3	Tl 190.801†	-16.0	-0.4	-0.6273	µg/L	-0.6273	ppb	17:22:54
3	U 367.007†	344.5	29.4	8.5044	µg/L	8.5044	ppb	17:22:34
3	V 292.402†	362.6	22.3	0.1634	µg/L	0.1634	ppb	17:22:34
3	Zn 213.857†	567.6	51.4	0.6428	µg/L	0.6428	ppb	17:22:54

Mean Data: 1202969098|1339675|50

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1168195.3	97.620	%	1.6689				1.71%
Sc RADIAL	20812.2	96.9	%	0.73				0.75%
Y 371.029	687346.6	97.279	%	1.6752				1.72%
Ag 328.068†	-69.5	-0.5675	µg/L	0.62639	-0.5675	ppb	0.62639	110.38%
Al 396.153Radial†	14.0	26.600	µg/L	11.4269	26.600	ppb	11.4269	42.96%
As 188.979†	-0.5	-1.1969	µg/L	2.12038	-1.1969	ppb	2.12038	177.16%
B 249.677†	1090.2	13.463	µg/L	0.3725	13.463	ppb	0.3725	2.77%
Ba 233.527†	713.8	10.415	µg/L	0.2787	10.415	ppb	0.2787	2.68%
Be 313.107†	865.5	0.3827	µg/L	0.05097	0.3827	ppb	0.05097	13.32%
Ca 317.933Radial†	4484.1	3036.7	µg/L	12.13	3036.7	ppb	12.13	0.40%
Cd 226.502†	5.4	0.0848	µg/L	0.25367	0.0848	ppb	0.25367	299.17%
Co 228.616†	-1.2	-0.0303	µg/L	0.16398	-0.0303	ppb	0.16398	541.17%
Cr 267.716†	7.0	0.1162	µg/L	0.22487	0.1162	ppb	0.22487	193.50%
Cu 324.752†	-315.6	-2.2104	µg/L	0.21919	-2.2104	ppb	0.21919	9.92%
Fe 238.204 Radial†	5.2	17.740	µg/L	3.7553	17.740	ppb	3.7553	21.17%
K 766.490 Radial†	167.0	216.79	µg/L	16.425	216.79	ppb	16.425	7.58%
Mg 279.077 IEC†	267.4	1877.0	µg/L	41.18	1877.0	ppb	41.18	2.19%
Mn 257.610†	530.4	1.5453	µg/L	0.04346	1.5453	ppb	0.04346	2.81%
Mo 202.031†	-2.8	-0.2675	µg/L	0.30176	-0.2675	ppb	0.30176	112.79%
Na 589.592 Radial†	3460.2	3331.5	µg/L	15.65	3331.5	ppb	15.65	0.47%

Ni 231.604†	14.1	0.4333	µg/L	0.17658	0.4333	ppb	0.17658	40.75%
P 214.914†	3.4	3.4659	µg/L	9.72786	3.4659	ppb	9.72786	280.67%
Pb 220.353†	-7.9	-1.7891	µg/L	2.36780	-1.7891	ppb	2.36780	132.35%
S 181.975 Axial†	19.9	67.939	µg/L	10.1191	67.939	ppb	10.1191	14.89%
Sb 206.836†	-2.6	-1.6459	µg/L	0.54636	-1.6459	ppb	0.54636	33.19%
Se 196.026†	-7.9	-11.2	µg/L	6.80	-11.2	ppb	6.80	60.74%
SiO2†	3359.1	634.00	µg/L	22.164	634.00	ppb	22.164	3.50%
Si 251.611†	10127.2	304.49	µg/L	1.615	304.49	ppb	1.615	0.53%
Sn 189.927†	-3.8	-1.2498	µg/L	0.62366	-1.2498	ppb	0.62366	49.90%
Sr 421.552†	3818.0	44.965	µg/L	0.1120	44.965	ppb	0.1120	0.25%
Ti 334.940†	-199.4	-0.2328	µg/L	0.22960	-0.2328	ppb	0.22960	98.64%
Tl 190.801†	1.8	2.4013	µg/L	8.34596	2.4013	ppb	8.34596	347.56%
U 367.007†	-11.1	-4.1772	µg/L	12.74244	-4.1772	ppb	12.74244	305.04%
V 292.402†	6.1	0.0414	µg/L	0.15165	0.0414	ppb	0.15165	365.96%
Zn 213.857†	54.7	0.6880	µg/L	0.11590	0.6880	ppb	0.11590	16.85%

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Sequence No.: 7 **Autosampler Location: 305**
Sample ID: 335304012|1339675|10 **Date Collected: 11/7/2013 17:23:02**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304012|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21064.6	21064.6	98.0	%			17:23:32
1	Al 396.153Radial†	-101.7	-7.5	-5.8022	µg/L	-5.8022	ppb	17:23:32
1	Ca 317.933Radial†	22276.8	22657.1	15344	µg/L	15344	ppb	17:23:32
1	Fe 238.204 Radial†	56.5	27.0	91.752	µg/L	91.752	ppb	17:23:52
1	K 766.490 Radial†	1734.1	1088.9	1415.8	µg/L	1415.8	ppb	17:23:32
1	Mg 279.077 IEC†	1322.3	1345.7	9446.7	µg/L	9446.7	ppb	17:23:52
1	Na 589.592 Radial†	15976.4	16339.0	15731	µg/L	15731	ppb	17:23:32
1	Sr 421.552†	18592.2	18927.5	222.91	µg/L	222.91	ppb	17:23:32
1	Sc 361.383	1182697.0	1182697.0	98.832	%			17:24:53
1	Y 371.029	690915.4	690915.4	97.784	%			17:24:53
1	Ag 328.068†	627.1	-11.6	-0.4990	µg/L	-0.4990	ppb	17:24:55
1	As 188.979†	-1.7	1.0	2.3540	µg/L	2.3540	ppb	17:25:15
1	B 249.677†	5635.5	5446.9	67.116	µg/L	67.116	ppb	17:24:55
1	Ba 233.527†	3377.4	3507.7	51.175	µg/L	51.175	ppb	17:25:15
1	Be 313.107†	-5804.3	916.7	0.4054	µg/L	0.4054	ppb	17:24:55
1	Cd 226.502†	-77.2	11.7	0.1778	µg/L	0.1778	ppb	17:25:15
1	Co 228.616†	-104.3	0.1	0.0280	µg/L	0.0280	ppb	17:25:15
1	Cr 267.716†	126.9	7.2	0.0293	µg/L	0.0293	ppb	17:25:15
1	Cu 324.752†	3275.6	-708.1	-4.9133	µg/L	-4.9133	ppb	17:24:55
1	Mn 257.610†	2422.3	2252.9	6.5090	µg/L	6.5090	ppb	17:25:15
1	Mo 202.031†	-29.3	-20.2	-2.0987	µg/L	-2.0987	ppb	17:25:15
1	Ni 231.604†	0.4	38.2	1.1756	µg/L	1.1756	ppb	17:25:15
1	P 214.914†	-44.8	22.8	23.309	µg/L	23.309	ppb	17:25:15
1	Pb 220.353†	108.1	1.0	0.1948	µg/L	0.1948	ppb	17:25:15
1	S 181.975 Axial†	130.5	107.3	367.39	µg/L	367.39	ppb	17:25:15
1	Sb 206.836†	3.1	-3.4	-2.1895	µg/L	-2.1895	ppb	17:25:15
1	Se 196.026†	20.9	4.3	6.01	µg/L	6.01	ppb	17:25:15
1	SiO2†	18886.1	17216.9	3249.5	µg/L	3249.5	ppb	17:24:55
1	Si 251.611†	50494.0	50736.3	1525.5	µg/L	1525.5	ppb	17:24:55
1	Sn 189.927†	-13.7	-17.8	-5.7995	µg/L	-5.7995	ppb	17:25:15
1	Ti 334.940†	931.8	-577.9	-0.3636	µg/L	-0.3636	ppb	17:24:55
1	Tl 190.801†	-12.5	3.1	4.1810	µg/L	4.1810	ppb	17:25:15
1	U 367.007†	373.2	57.4	14.392	µg/L	14.392	ppb	17:24:55
1	V 292.402†	349.4	7.9	0.0533	µg/L	0.0533	ppb	17:24:55
1	Zn 213.857†	649.0	132.0	1.5609	µg/L	1.5609	ppb	17:25:15
2	Sc RADIAL	21334.0	21334.0	99.3	%			17:23:54
2	Al 396.153Radial†	-86.0	9.6	24.708	µg/L	24.708	ppb	17:23:54
2	Ca 317.933Radial†	22518.8	22613.9	15314	µg/L	15314	ppb	17:23:54
2	Fe 238.204 Radial†	59.4	29.3	99.364	µg/L	99.364	ppb	17:24:14
2	K 766.490 Radial†	1729.2	1061.7	1380.3	µg/L	1380.3	ppb	17:23:54
2	Mg 279.077 IEC†	1323.0	1329.3	9331.6	µg/L	9331.6	ppb	17:24:14
2	Na 589.592 Radial†	15951.9	16108.6	15509	µg/L	15509	ppb	17:23:54
2	Sr 421.552†	18834.0	18931.6	222.95	µg/L	222.95	ppb	17:23:54
2	Sc 361.383	1186910.7	1186910.7	99.184	%			17:25:17
2	Y 371.029	693298.8	693298.8	98.121	%			17:25:17
2	Ag 328.068†	755.1	115.1	0.4081	µg/L	0.4081	ppb	17:25:19
2	As 188.979†	-4.8	-2.1	-4.8285	µg/L	-4.8285	ppb	17:25:40
2	B 249.677†	5838.3	5631.2	69.404	µg/L	69.404	ppb	17:25:19
2	Ba 233.527†	3425.5	3544.0	51.705	µg/L	51.705	ppb	17:25:40
2	Be 313.107†	-6018.4	721.8	0.3192	µg/L	0.3192	ppb	17:25:19
2	Cd 226.502†	-97.3	-8.2	-0.1449	µg/L	-0.1449	ppb	17:25:40
2	Co 228.616†	-98.1	6.7	0.2308	µg/L	0.2308	ppb	17:25:40
2	Cr 267.716†	134.8	14.7	0.1801	µg/L	0.1801	ppb	17:25:40
2	Cu 324.752†	3435.0	-559.1	-3.8696	µg/L	-3.8696	ppb	17:25:19
2	Mn 257.610†	2437.8	2259.8	6.5346	µg/L	6.5346	ppb	17:25:40
2	Mo 202.031†	-26.9	-17.6	-1.7938	µg/L	-1.7938	ppb	17:25:40
2	Ni 231.604†	22.6	60.5	1.8626	µg/L	1.8626	ppb	17:25:40
2	P 214.914†	-63.3	4.3	4.3226	µg/L	4.3226	ppb	17:25:40
2	Pb 220.353†	100.4	-7.2	-1.6484	µg/L	-1.6484	ppb	17:25:40

2	S 181.975 Axial†	127.5	103.9	355.45	µg/L	355.45	ppb	17:25:40
2	Sb 206.836†	2.6	-3.9	-2.5059	µg/L	-2.5059	ppb	17:25:40
2	Se 196.026†	4.7	-12.1	-17.1	µg/L	-17.1	ppb	17:25:40
2	SiO2†	19443.2	17710.8	3342.7	µg/L	3342.7	ppb	17:25:19
2	Si 251.611†	51753.1	51824.4	1558.2	µg/L	1558.2	ppb	17:25:19
2	Sn 189.927†	-17.8	-21.9	-7.4704	µg/L	-7.4704	ppb	17:25:40
2	Ti 334.940†	699.9	-815.0	-0.8177	µg/L	-0.8177	ppb	17:25:19
2	Tl 190.801†	-14.9	0.8	0.8866	µg/L	0.8866	ppb	17:25:40
2	U 367.007†	341.9	24.5	4.0778	µg/L	4.0778	ppb	17:25:19
2	V 292.402†	382.7	40.2	0.2881	µg/L	0.2881	ppb	17:25:19
2	Zn 213.857†	647.9	128.6	1.5117	µg/L	1.5117	ppb	17:25:40
3	Sc RADIAL	20743.8	20743.8	96.5	%			17:24:16
3	Al 396.153Radial†	-77.1	16.4	36.842	µg/L	36.842	ppb	17:24:16
3	Ca 317.933Radial†	21929.5	22648.7	15338	µg/L	15338	ppb	17:24:16
3	Fe 238.204 Radial†	59.9	31.5	106.82	µg/L	106.82	ppb	17:24:36
3	K 766.490 Radial†	1730.0	1112.0	1445.9	µg/L	1445.9	ppb	17:24:16
3	Mg 279.077 IEC†	1323.9	1368.2	9604.5	µg/L	9604.5	ppb	17:24:36
3	Na 589.592 Radial†	15652.9	16256.0	15651	µg/L	15651	ppb	17:24:16
3	Sr 421.552†	18405.1	19027.0	224.08	µg/L	224.08	ppb	17:24:16
3	Sc 361.383	1187130.2	1187130.2	99.202	%			17:25:42
3	Y 371.029	692953.1	692953.1	98.072	%			17:25:42
3	Ag 328.068†	613.0	-28.2	-0.6061	µg/L	-0.6061	ppb	17:25:44
3	As 188.979†	-5.5	-2.8	-6.4740	µg/L	-6.4740	ppb	17:26:04
3	B 249.677†	5615.9	5405.9	66.536	µg/L	66.536	ppb	17:25:44
3	Ba 233.527†	3458.6	3576.8	52.185	µg/L	52.185	ppb	17:26:04
3	Be 313.107†	-6049.3	691.8	0.3059	µg/L	0.3059	ppb	17:25:44
3	Cd 226.502†	-94.0	-4.9	-0.0927	µg/L	-0.0927	ppb	17:26:04
3	Co 228.616†	-97.3	7.5	0.2573	µg/L	0.2573	ppb	17:26:04
3	Cr 267.716†	132.3	12.1	0.1281	µg/L	0.1281	ppb	17:26:04
3	Cu 324.752†	3445.2	-549.4	-3.7981	µg/L	-3.7981	ppb	17:25:44
3	Mn 257.610†	2468.5	2290.3	6.6175	µg/L	6.6175	ppb	17:26:04
3	Mo 202.031†	-33.0	-23.8	-2.5275	µg/L	-2.5275	ppb	17:26:04
3	Ni 231.604†	-8.1	29.6	0.9103	µg/L	0.9103	ppb	17:26:04
3	P 214.914†	-52.8	14.9	15.182	µg/L	15.182	ppb	17:26:04
3	Pb 220.353†	103.9	-3.7	-0.8617	µg/L	-0.8617	ppb	17:26:04
3	S 181.975 Axial†	148.3	124.7	427.31	µg/L	427.31	ppb	17:26:04
3	Sb 206.836†	1.3	-5.3	-3.3732	µg/L	-3.3732	ppb	17:26:04
3	Se 196.026†	14.3	-2.4	-3.39	µg/L	-3.39	ppb	17:26:04
3	SiO2†	18852.4	17111.6	3229.7	µg/L	3229.7	ppb	17:25:44
3	Si 251.611†	50390.7	50441.4	1516.6	µg/L	1516.6	ppb	17:25:44
3	Sn 189.927†	-15.2	-19.2	-6.3980	µg/L	-6.3980	ppb	17:26:04
3	Ti 334.940†	683.0	-832.2	-0.8515	µg/L	-0.8515	ppb	17:25:44
3	Tl 190.801†	-14.4	1.3	1.5985	µg/L	1.5985	ppb	17:26:04
3	U 367.007†	344.9	27.5	4.9450	µg/L	4.9450	ppb	17:25:44
3	V 292.402†	450.7	108.6	0.7792	µg/L	0.7792	ppb	17:25:44
3	Zn 213.857†	633.4	113.9	1.3155	µg/L	1.3155	ppb	17:26:04

Mean Data: 335304012|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1185579.3	99.072	%	0.2088				0.21%
Sc RADIAL	21047.5	98.0	%	1.37				1.40%
Y 371.029	692389.1	97.993	%	0.1823				0.19%
Ag 328.068†	25.1	-0.2323	µg/L	0.55723	-0.2323	ppb	0.55723	239.84%
Al 396.153Radial†	6.2	18.583	µg/L	21.9722	18.583	ppb	21.9722	118.24%
As 188.979†	-1.3	-2.9828	µg/L	4.69452	-2.9828	ppb	4.69452	157.39%
B 249.677†	5494.6	67.685	µg/L	1.5168	67.685	ppb	1.5168	2.24%
Ba 233.527†	3542.9	51.688	µg/L	0.5053	51.688	ppb	0.5053	0.98%
Be 313.107†	776.8	0.3435	µg/L	0.05401	0.3435	ppb	0.05401	15.73%
Ca 317.933Radial†	22639.9	15332	µg/L	15.5	15332	ppb	15.5	0.10%
Cd 226.502†	-0.5	-0.0199	µg/L	0.17320	-0.0199	ppb	0.17320	869.02%
Co 228.616†	4.8	0.1720	µg/L	0.12541	0.1720	ppb	0.12541	72.89%
Cr 267.716†	11.3	0.1125	µg/L	0.07660	0.1125	ppb	0.07660	68.09%
Cu 324.752†	-605.6	-4.1937	µg/L	0.62421	-4.1937	ppb	0.62421	14.88%
Fe 238.204 Radial†	29.3	99.314	µg/L	7.5366	99.314	ppb	7.5366	7.59%
K 766.490 Radial†	1087.5	1414.0	µg/L	32.86	1414.0	ppb	32.86	2.32%
Mg 279.077 IEC†	1347.7	9460.9	µg/L	137.06	9460.9	ppb	137.06	1.45%
Mn 257.610†	2267.7	6.5537	µg/L	0.05670	6.5537	ppb	0.05670	0.87%
Mo 202.031†	-20.6	-2.1400	µg/L	0.36857	-2.1400	ppb	0.36857	17.22%
Na 589.592 Radial†	16234.5	15631	µg/L	112.3	15631	ppb	112.3	0.72%

Ni 231.604†	42.8	1.3162	µg/L	0.49143	1.3162	ppb	0.49143	37.34%
P 214.914†	14.0	14.271	µg/L	9.5260	14.271	ppb	9.5260	66.75%
Pb 220.353†	-3.3	-0.7718	µg/L	0.92488	-0.7718	ppb	0.92488	119.84%
S 181.975 Axial†	112.0	383.38	µg/L	38.505	383.38	ppb	38.505	10.04%
Sb 206.836†	-4.2	-2.6895	µg/L	0.61286	-2.6895	ppb	0.61286	22.79%
Se 196.026†	-3.4	-4.83	µg/L	11.625	-4.83	ppb	11.625	240.58%
SiO2†	17346.4	3274.0	µg/L	60.38	3274.0	ppb	60.38	1.84%
Si 251.611†	51000.7	1533.4	µg/L	21.90	1533.4	ppb	21.90	1.43%
Sn 189.927†	-19.6	-6.5560	µg/L	0.84656	-6.5560	ppb	0.84656	12.91%
Sr 421.552†	18962.1	223.31	µg/L	0.663	223.31	ppb	0.663	0.30%
Ti 334.940†	-741.7	-0.6776	µg/L	0.27243	-0.6776	ppb	0.27243	40.20%
Tl 190.801†	1.7	2.2220	µg/L	1.73343	2.2220	ppb	1.73343	78.01%
U 367.007†	36.5	7.8051	µg/L	5.72125	7.8051	ppb	5.72125	73.30%
V 292.402†	52.2	0.3735	µg/L	0.37040	0.3735	ppb	0.37040	99.17%
Zn 213.857†	124.8	1.4627	µg/L	0.12980	1.4627	ppb	0.12980	8.87%

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Sequence No.: 8 **Autosampler Location: 306**
Sample ID: 335304013|1339675|10 **Date Collected: 11/7/2013 17:26:12**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304013|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21266.5	21266.5	99.0	%			17:26:42
1	Al 396.153Radial†	-79.7	15.7	33.913	µg/L	33.913	ppb	17:27:02
1	Ca 317.933Radial†	16634.7	16740.6	11337	µg/L	11337	ppb	17:26:42
1	Fe 238.204 Radial†	512.6	487.4	1653.4	µg/L	1653.4	ppb	17:27:02
1	K 766.490 Radial†	4540.0	3907.2	5100.8	µg/L	5100.8	ppb	17:26:42
1	Mg 279.077 IEC†	639.0	642.5	4510.4	µg/L	4510.4	ppb	17:27:02
1	Na 589.592 Radial†	10051.5	10197.9	9818.5	µg/L	9818.5	ppb	17:26:42
1	Sr 421.552†	6369.0	6397.3	75.292	µg/L	75.292	ppb	17:26:42
1	Sc 361.383	1199557.0	1199557.0	100.24	%			17:28:04
1	Y 371.029	700724.1	700724.1	99.172	%			17:28:04
1	Ag 328.068†	577.0	-70.6	-0.8044	µg/L	-0.8044	ppb	17:28:06
1	As 188.979†	-0.9	1.8	4.3015	µg/L	4.3015	ppb	17:28:26
1	B 249.677†	6222.5	5952.4	66.053	µg/L	66.053	ppb	17:28:06
1	Ba 233.527†	11903.6	11965.5	174.55	µg/L	174.55	ppb	17:28:06
1	Be 313.107†	-6102.9	701.4	0.3102	µg/L	0.3102	ppb	17:28:06
1	Cd 226.502†	-76.9	13.2	-0.0029	µg/L	-0.0029	ppb	17:28:26
1	Co 228.616†	-99.5	6.4	0.2719	µg/L	0.2719	ppb	17:28:26
1	Cr 267.716†	148.6	27.0	0.5148	µg/L	0.5148	ppb	17:28:26
1	Cu 324.752†	3566.9	-464.1	-3.0124	µg/L	-3.0124	ppb	17:28:06
1	Mn 257.610†	14438.2	14205.5	43.124	µg/L	43.124	ppb	17:28:06
1	Mo 202.031†	-19.1	-9.6	-0.9704	µg/L	-0.9704	ppb	17:28:26
1	Ni 231.604†	2.6	40.3	1.2326	µg/L	1.2326	ppb	17:28:26
1	P 214.914†	-6.9	61.2	60.520	µg/L	60.520	ppb	17:28:26
1	Pb 220.353†	112.6	3.9	0.8484	µg/L	0.8484	ppb	17:28:26
1	S 181.975 Axial†	73.1	48.2	164.30	µg/L	164.30	ppb	17:28:26
1	Sb 206.836†	5.8	-0.8	-0.4624	µg/L	-0.4624	ppb	17:28:26
1	Se 196.026†	9.8	-7.1	-9.48	µg/L	-9.48	ppb	17:28:26
1	SiO2†	19755.3	17815.4	3362.5	µg/L	3362.5	ppb	17:28:06
1	Si 251.611†	52852.4	52370.9	1574.8	µg/L	1574.8	ppb	17:28:06
1	Sn 189.927†	-11.7	-15.6	-5.2866	µg/L	-5.2866	ppb	17:28:26
1	Ti 334.940†	1140.8	-382.7	-0.1613	µg/L	-0.1613	ppb	17:28:06
1	Tl 190.801†	-18.9	-3.0	-4.3819	µg/L	-4.3819	ppb	17:28:26
1	U 367.007†	309.6	-11.3	-14.116	µg/L	-14.116	ppb	17:28:06
1	V 292.402†	362.4	15.9	0.3537	µg/L	0.3537	ppb	17:28:06
1	Zn 213.857†	674.1	147.8	1.7068	µg/L	1.7068	ppb	17:28:26
2	Sc RADIAL	22311.9	22311.9	104	%			17:27:04
2	Al 396.153Radial†	-64.8	33.8	65.803	µg/L	65.803	ppb	17:27:24
2	Ca 317.933Radial†	16275.6	15607.2	10570	µg/L	10570	ppb	17:27:04
2	Fe 238.204 Radial†	521.5	471.7	1600.1	µg/L	1600.1	ppb	17:27:24
2	K 766.490 Radial†	4549.9	3701.8	4832.9	µg/L	4832.9	ppb	17:27:04
2	Mg 279.077 IEC†	637.1	610.4	4285.2	µg/L	4285.2	ppb	17:27:24
2	Na 589.592 Radial†	9858.0	9535.6	9180.9	µg/L	9180.9	ppb	17:27:04
2	Sr 421.552†	6263.6	5994.2	70.548	µg/L	70.548	ppb	17:27:04
2	Sc 361.383	1195083.6	1195083.6	99.867	%			17:28:28
2	Y 371.029	697171.9	697171.9	98.670	%			17:28:28
2	Ag 328.068†	537.9	-107.6	-1.0409	µg/L	-1.0409	ppb	17:28:30
2	As 188.979†	-6.5	-3.8	-8.2983	µg/L	-8.2983	ppb	17:28:50
2	B 249.677†	6129.2	5882.2	65.485	µg/L	65.485	ppb	17:28:30
2	Ba 233.527†	11932.6	12038.9	175.62	µg/L	175.62	ppb	17:28:30
2	Be 313.107†	-6080.2	701.4	0.3101	µg/L	0.3101	ppb	17:28:30
2	Cd 226.502†	-64.9	24.9	0.1931	µg/L	0.1931	ppb	17:28:50
2	Co 228.616†	-97.9	7.6	0.3097	µg/L	0.3097	ppb	17:28:50
2	Cr 267.716†	131.6	10.5	0.2059	µg/L	0.2059	ppb	17:28:50
2	Cu 324.752†	3512.6	-505.1	-3.3119	µg/L	-3.3119	ppb	17:28:30
2	Mn 257.610†	14509.9	14331.2	43.513	µg/L	43.513	ppb	17:28:30
2	Mo 202.031†	-22.7	-13.3	-1.4194	µg/L	-1.4194	ppb	17:28:50
2	Ni 231.604†	-12.0	25.7	0.7832	µg/L	0.7832	ppb	17:28:50
2	P 214.914†	4.7	72.9	72.488	µg/L	72.488	ppb	17:28:50
2	Pb 220.353†	132.6	24.3	5.4887	µg/L	5.4887	ppb	17:28:50

2	S 181.975 Axial†	75.4	50.8	173.51	µg/L	173.51	ppb	17:28:50
2	Sb 206.836†	6.2	-0.3	-0.1589	µg/L	-0.1589	ppb	17:28:50
2	Se 196.026†	14.3	-2.5	-3.04	µg/L	-3.04	ppb	17:28:50
2	SiO2†	19835.3	17969.4	3391.5	µg/L	3391.5	ppb	17:28:30
2	Si 251.611†	53180.4	52896.8	1590.6	µg/L	1590.6	ppb	17:28:30
2	Sn 189.927†	-17.2	-21.2	-7.6106	µg/L	-7.6106	ppb	17:28:50
2	Ti 334.940†	995.2	-524.2	-0.4712	µg/L	-0.4712	ppb	17:28:30
2	Tl 190.801†	-14.6	1.2	1.4150	µg/L	1.4150	ppb	17:28:50
2	U 367.007†	290.5	-29.3	-19.333	µg/L	-19.333	ppb	17:28:30
2	V 292.402†	361.9	16.8	0.3429	µg/L	0.3429	ppb	17:28:30
2	Zn 213.857†	669.7	145.9	1.6935	µg/L	1.6935	ppb	17:28:50
3	Sc RADIAL	21270.8	21270.8	99.0	%			17:27:26
3	Al 396.153Radial†	-73.5	22.0	45.250	µg/L	45.250	ppb	17:27:46
3	Ca 317.933Radial†	16938.6	17044.3	11543	µg/L	11543	ppb	17:27:26
3	Fe 238.204 Radial†	524.0	498.7	1691.9	µg/L	1691.9	ppb	17:27:46
3	K 766.490 Radial†	4553.2	3919.6	5117.0	µg/L	5117.0	ppb	17:27:26
3	Mg 279.077 IEC†	647.2	650.6	4567.5	µg/L	4567.5	ppb	17:27:46
3	Na 589.592 Radial†	10084.7	10229.3	9848.8	µg/L	9848.8	ppb	17:27:26
3	Sr 421.552†	6513.6	6542.0	76.995	µg/L	76.995	ppb	17:27:26
3	Sc 361.383	1206985.0	1206985.0	100.86	%			17:28:52
3	Y 371.029	704788.4	704788.4	99.747	%			17:28:52
3	Ag 328.068†	425.5	-224.3	-1.8986	µg/L	-1.8986	ppb	17:28:54
3	As 188.979†	-5.0	-2.3	-4.8569	µg/L	-4.8569	ppb	17:29:14
3	B 249.677†	6244.6	5936.0	65.696	µg/L	65.696	ppb	17:28:54
3	Ba 233.527†	11955.3	11943.6	174.23	µg/L	174.23	ppb	17:28:54
3	Be 313.107†	-6184.6	657.9	0.2909	µg/L	0.2909	ppb	17:28:54
3	Cd 226.502†	-77.8	12.8	-0.0149	µg/L	-0.0149	ppb	17:29:14
3	Co 228.616†	-112.3	-5.7	-0.0972	µg/L	-0.0972	ppb	17:29:14
3	Cr 267.716†	131.1	8.8	0.1691	µg/L	0.1691	ppb	17:29:14
3	Cu 324.752†	3608.6	-444.6	-2.8696	µg/L	-2.8696	ppb	17:28:54
3	Mn 257.610†	14478.5	14156.9	42.974	µg/L	42.974	ppb	17:28:54
3	Mo 202.031†	-17.9	-8.3	-0.8103	µg/L	-0.8103	ppb	17:29:14
3	Ni 231.604†	-24.0	13.9	0.4206	µg/L	0.4206	ppb	17:29:14
3	P 214.914†	1.8	69.9	69.343	µg/L	69.343	ppb	17:29:14
3	Pb 220.353†	107.2	-2.1	-0.5147	µg/L	-0.5147	ppb	17:29:14
3	S 181.975 Axial†	77.5	52.1	177.92	µg/L	177.92	ppb	17:29:14
3	Sb 206.836†	3.2	-3.4	-2.1293	µg/L	-2.1293	ppb	17:29:14
3	Se 196.026†	13.3	-3.6	-4.57	µg/L	-4.57	ppb	17:29:14
3	SiO2†	19899.3	17836.9	3366.5	µg/L	3366.5	ppb	17:28:54
3	Si 251.611†	53226.5	52417.4	1576.2	µg/L	1576.2	ppb	17:28:54
3	Sn 189.927†	-12.2	-16.0	-5.4137	µg/L	-5.4137	ppb	17:29:14
3	Ti 334.940†	915.4	-613.1	-0.5962	µg/L	-0.5962	ppb	17:28:54
3	Tl 190.801†	-17.4	-1.5	-2.2554	µg/L	-2.2554	ppb	17:29:14
3	U 367.007†	313.9	-8.9	-13.616	µg/L	-13.616	ppb	17:28:54
3	V 292.402†	320.5	-27.8	0.0432	µg/L	0.0432	ppb	17:28:54
3	Zn 213.857†	682.1	151.6	1.7566	µg/L	1.7566	ppb	17:29:14

Mean Data: 335304013|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1200541.9	100.32	%	0.502				0.50%
Sc RADIAL	21616.4	101	%	2.8				2.79%
Y 371.029	700894.8	99.196	%	0.5394				0.54%
Ag 328.068†	-134.1	-1.2480	µg/L	0.57578	-1.2480	ppb	0.57578	46.14%
Al 396.153Radial†	23.8	48.322	µg/L	16.1653	48.322	ppb	16.1653	33.45%
As 188.979†	-1.4	-2.9513	µg/L	6.51247	-2.9513	ppb	6.51247	220.67%
B 249.677†	5923.5	65.745	µg/L	0.2869	65.745	ppb	0.2869	0.44%
Ba 233.527†	11982.7	174.80	µg/L	0.729	174.80	ppb	0.729	0.42%
Be 313.107†	686.9	0.3037	µg/L	0.01111	0.3037	ppb	0.01111	3.66%
Ca 317.933Radial†	16464.0	11150	µg/L	512.9	11150	ppb	512.9	4.60%
Cd 226.502†	16.9	0.0584	µg/L	0.11678	0.0584	ppb	0.11678	199.88%
Co 228.616†	2.7	0.1615	µg/L	0.22484	0.1615	ppb	0.22484	139.24%
Cr 267.716†	15.4	0.2966	µg/L	0.18986	0.2966	ppb	0.18986	64.01%
Cu 324.752†	-471.2	-3.0646	µg/L	0.22575	-3.0646	ppb	0.22575	7.37%
Fe 238.204 Radial†	485.9	1648.5	µg/L	46.08	1648.5	ppb	46.08	2.80%
K 766.490 Radial†	3842.9	5016.9	µg/L	159.56	5016.9	ppb	159.56	3.18%
Mg 279.077 IEC†	634.5	4454.3	µg/L	149.27	4454.3	ppb	149.27	3.35%
Mn 257.610†	14231.2	43.204	µg/L	0.2784	43.204	ppb	0.2784	0.64%
Mo 202.031†	-10.4	-1.0667	µg/L	0.31577	-1.0667	ppb	0.31577	29.60%
Na 589.592 Radial†	9987.6	9616.0	µg/L	377.16	9616.0	ppb	377.16	3.92%

Ni 231.604†	26.7	0.8121	µg/L	0.40677	0.8121	ppb	0.40677	50.09%
P 214.914†	68.0	67.450	µg/L	6.2043	67.450	ppb	6.2043	9.20%
Pb 220.353†	8.7	1.9408	µg/L	3.14724	1.9408	ppb	3.14724	162.16%
S 181.975 Axial†	50.4	171.91	µg/L	6.953	171.91	ppb	6.953	4.04%
Sb 206.836†	-1.5	-0.9169	µg/L	1.06088	-0.9169	ppb	1.06088	115.70%
Se 196.026†	-4.4	-5.69	µg/L	3.364	-5.69	ppb	3.364	59.08%
SiO2†	17873.9	3373.5	µg/L	15.73	3373.5	ppb	15.73	0.47%
Si 251.611†	52561.7	1580.5	µg/L	8.75	1580.5	ppb	8.75	0.55%
Sn 189.927†	-17.6	-6.1037	µg/L	1.30664	-6.1037	ppb	1.30664	21.41%
Sr 421.552†	6311.1	74.278	µg/L	3.3409	74.278	ppb	3.3409	4.50%
Ti 334.940†	-506.6	-0.4096	µg/L	0.22395	-0.4096	ppb	0.22395	54.68%
Tl 190.801†	-1.1	-1.7408	µg/L	2.93252	-1.7408	ppb	2.93252	168.46%
U 367.007†	-16.5	-15.688	µg/L	3.1660	-15.688	ppb	3.1660	20.18%
V 292.402†	1.6	0.2466	µg/L	0.17622	0.2466	ppb	0.17622	71.46%
Zn 213.857†	148.5	1.7190	µg/L	0.03326	1.7190	ppb	0.03326	1.93%

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Sequence No.: 9 **Autosampler Location: 307**
Sample ID: 335304014|1339675|10 **Date Collected: 11/7/2013 17:29:22**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304014|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21332.9	21332.9	99.3	%			17:29:52
1	Al 396.153Radial†	-83.8	11.9	26.885	µg/L	26.885	ppb	17:30:12
1	Ca 317.933Radial†	16464.3	16516.7	11186	µg/L	11186	ppb	17:29:52
1	Fe 238.204 Radial†	520.9	494.1	1676.2	µg/L	1676.2	ppb	17:30:12
1	K 766.490 Radial†	4505.9	3858.6	5037.4	µg/L	5037.4	ppb	17:29:52
1	Mg 279.077 IEC†	646.3	647.8	4547.6	µg/L	4547.6	ppb	17:30:12
1	Na 589.592 Radial†	10017.7	10132.2	9755.2	µg/L	9755.2	ppb	17:29:52
1	Sr 421.552†	6271.9	6279.4	73.904	µg/L	73.904	ppb	17:29:52
1	Sc 361.383	1186792.4	1186792.4	99.174	%			17:31:14
1	Y 371.029	690829.8	690829.8	97.772	%			17:31:14
1	Ag 328.068†	664.7	24.1	-0.1620	µg/L	-0.1620	ppb	17:31:16
1	As 188.979†	-7.6	-4.9	-10.923	µg/L	-10.923	ppb	17:31:36
1	B 249.677†	6236.0	6032.7	66.996	µg/L	66.996	ppb	17:31:16
1	Ba 233.527†	11768.4	11956.8	174.42	µg/L	174.42	ppb	17:31:16
1	Be 313.107†	-6628.8	105.7	0.0467	µg/L	0.0467	ppb	17:31:16
1	Cd 226.502†	-86.9	2.2	-0.1825	µg/L	-0.1825	ppb	17:31:36
1	Co 228.616†	-101.3	3.4	0.1827	µg/L	0.1827	ppb	17:31:36
1	Cr 267.716†	132.2	12.1	0.2121	µg/L	0.2121	ppb	17:31:36
1	Cu 324.752†	3754.6	-236.5	-1.3931	µg/L	-1.3931	ppb	17:31:16
1	Mn 257.610†	13743.3	13659.8	41.461	µg/L	41.461	ppb	17:31:16
1	Mo 202.031†	-14.8	-5.5	-0.4781	µg/L	-0.4781	ppb	17:31:36
1	Ni 231.604†	8.5	46.4	1.4188	µg/L	1.4188	ppb	17:31:36
1	P 214.914†	-7.8	60.3	59.461	µg/L	59.461	ppb	17:31:36
1	Pb 220.353†	106.5	-1.1	-0.3060	µg/L	-0.3060	ppb	17:31:36
1	S 181.975 Axial†	73.3	49.2	167.87	µg/L	167.87	ppb	17:31:36
1	Sb 206.836†	2.2	-4.3	-2.6929	µg/L	-2.6929	ppb	17:31:36
1	Se 196.026†	15.1	-1.6	-1.74	µg/L	-1.74	ppb	17:31:36
1	SiO2†	19521.0	17791.2	3357.9	µg/L	3357.9	ppb	17:31:16
1	Si 251.611†	52237.3	52317.9	1573.2	µg/L	1573.2	ppb	17:31:16
1	Sn 189.927†	-6.7	-10.7	-3.3114	µg/L	-3.3114	ppb	17:31:36
1	Ti 334.940†	1013.3	-499.0	-0.4105	µg/L	-0.4105	ppb	17:31:16
1	Tl 190.801†	-13.3	2.4	3.0914	µg/L	3.0914	ppb	17:31:36
1	U 367.007†	407.1	90.3	17.563	µg/L	17.563	ppb	17:31:16
1	V 292.402†	237.0	-106.7	-0.5112	µg/L	-0.5112	ppb	17:31:16
1	Zn 213.857†	617.5	98.0	1.0397	µg/L	1.0397	ppb	17:31:36
2	Sc RADIAL	21264.8	21264.8	99.0	%			17:30:14
2	Al 396.153Radial†	-86.6	8.8	21.425	µg/L	21.425	ppb	17:30:34
2	Ca 317.933Radial†	16587.6	16694.4	11306	µg/L	11306	ppb	17:30:14
2	Fe 238.204 Radial†	506.1	480.8	1631.1	µg/L	1631.1	ppb	17:30:34
2	K 766.490 Radial†	4588.4	3956.5	5165.2	µg/L	5165.2	ppb	17:30:14
2	Mg 279.077 IEC†	634.5	638.0	4478.7	µg/L	4478.7	ppb	17:30:34
2	Na 589.592 Radial†	10046.7	10193.8	9814.6	µg/L	9814.6	ppb	17:30:14
2	Sr 421.552†	6275.3	6303.1	74.182	µg/L	74.182	ppb	17:30:14
2	Sc 361.383	1195058.0	1195058.0	99.865	%			17:31:38
2	Y 371.029	696139.6	696139.6	98.523	%			17:31:38
2	Ag 328.068†	556.9	-88.5	-0.9406	µg/L	-0.9406	ppb	17:31:40
2	As 188.979†	-6.9	-4.2	-9.3632	µg/L	-9.3632	ppb	17:32:00
2	B 249.677†	6235.8	5989.0	66.568	µg/L	66.568	ppb	17:31:40
2	Ba 233.527†	11670.4	11776.6	171.79	µg/L	171.79	ppb	17:31:40
2	Be 313.107†	-6551.7	229.1	0.1013	µg/L	0.1013	ppb	17:31:40
2	Cd 226.502†	-81.6	8.2	-0.0808	µg/L	-0.0808	ppb	17:32:00
2	Co 228.616†	-107.4	-2.0	0.0166	µg/L	0.0166	ppb	17:32:00
2	Cr 267.716†	132.2	11.2	0.2080	µg/L	0.2080	ppb	17:32:00
2	Cu 324.752†	3642.5	-375.0	-2.3842	µg/L	-2.3842	ppb	17:31:40
2	Mn 257.610†	13664.8	13485.3	40.931	µg/L	40.931	ppb	17:31:40
2	Mo 202.031†	-14.8	-5.4	-0.4600	µg/L	-0.4600	ppb	17:32:00
2	Ni 231.604†	-11.9	25.8	0.7860	µg/L	0.7860	ppb	17:32:00
2	P 214.914†	-0.5	67.6	67.077	µg/L	67.077	ppb	17:32:00
2	Pb 220.353†	102.2	-6.1	-1.4315	µg/L	-1.4315	ppb	17:32:00

2	S 181.975 Axial†	74.3	49.6	169.30	µg/L	169.30 ppb	17:32:00
2	Sb 206.836†	6.5	-0.0	0.0206	µg/L	0.0206 ppb	17:32:00
2	Se 196.026†	9.2	-7.6	-10.2	µg/L	-10.2 ppb	17:32:00
2	SiO2†	19456.1	17590.0	3320.0	µg/L	3320.0 ppb	17:31:40
2	Si 251.611†	51820.4	51536.0	1549.7	µg/L	1549.7 ppb	17:31:40
2	Sn 189.927†	-10.3	-14.2	-4.7342	µg/L	-4.7342 ppb	17:32:00
2	Ti 334.940†	1028.3	-491.0	-0.3774	µg/L	-0.3774 ppb	17:31:40
2	Tl 190.801†	-16.4	-0.6	-1.1000	µg/L	-1.1000 ppb	17:32:00
2	U 367.007†	341.5	21.8	-3.6620	µg/L	-3.6620 ppb	17:31:40
2	V 292.402†	281.5	-63.7	-0.2176	µg/L	-0.2176 ppb	17:31:40
2	Zn 213.857†	628.3	104.5	1.1369	µg/L	1.1369 ppb	17:32:00
3	Sc RADIAL	21196.0	21196.0	98.6	%		17:30:36
3	Al 396.153Radial†	-88.8	6.2	16.830	µg/L	16.830 ppb	17:30:56
3	Ca 317.933Radial†	16517.9	16678.1	11295	µg/L	11295 ppb	17:30:36
3	Fe 238.204 Radial†	509.2	485.7	1647.6	µg/L	1647.6 ppb	17:30:56
3	K 766.490 Radial†	4648.8	4032.7	5264.8	µg/L	5264.8 ppb	17:30:36
3	Mg 279.077 IEC†	625.2	630.6	4427.2	µg/L	4427.2 ppb	17:30:56
3	Na 589.592 Radial†	9950.4	10129.1	9752.3	µg/L	9752.3 ppb	17:30:36
3	Sr 421.552†	6258.2	6306.3	74.220	µg/L	74.220 ppb	17:30:36
3	Sc 361.383	1199004.8	1199004.8	100.19	%		17:32:02
3	Y 371.029	698924.1	698924.1	98.918	%		17:32:02
3	Ag 328.068†	567.8	-79.5	-0.8907	µg/L	-0.8907 ppb	17:32:04
3	As 188.979†	-9.0	-6.3	-13.964	µg/L	-13.964 ppb	17:32:24
3	B 249.677†	6168.8	5901.7	65.374	µg/L	65.374 ppb	17:32:04
3	Ba 233.527†	11772.0	11839.6	172.71	µg/L	172.71 ppb	17:32:04
3	Be 313.107†	-6540.6	261.7	0.1157	µg/L	0.1157 ppb	17:32:04
3	Cd 226.502†	-81.7	8.3	-0.0809	µg/L	-0.0809 ppb	17:32:24
3	Co 228.616†	-107.3	-1.5	0.0316	µg/L	0.0316 ppb	17:32:24
3	Cr 267.716†	132.8	11.3	0.2032	µg/L	0.2032 ppb	17:32:24
3	Cu 324.752†	3698.7	-330.8	-2.0648	µg/L	-2.0648 ppb	17:32:04
3	Mn 257.610†	13850.5	13625.6	41.361	µg/L	41.361 ppb	17:32:04
3	Mo 202.031†	-21.1	-11.6	-1.2106	µg/L	-1.2106 ppb	17:32:24
3	Ni 231.604†	-11.9	25.9	0.7887	µg/L	0.7887 ppb	17:32:24
3	P 214.914†	-11.3	56.8	55.982	µg/L	55.982 ppb	17:32:24
3	Pb 220.353†	96.2	-12.4	-2.8739	µg/L	-2.8739 ppb	17:32:24
3	S 181.975 Axial†	76.9	52.1	177.68	µg/L	177.68 ppb	17:32:24
3	Sb 206.836†	11.0	4.5	2.8846	µg/L	2.8846 ppb	17:32:24
3	Se 196.026†	19.5	2.6	4.28	µg/L	4.28 ppb	17:32:24
3	SiO2†	19678.7	17748.1	3349.8	µg/L	3349.8 ppb	17:32:04
3	Si 251.611†	52279.7	51823.6	1558.3	µg/L	1558.3 ppb	17:32:04
3	Sn 189.927†	-15.2	-19.1	-6.7039	µg/L	-6.7039 ppb	17:32:24
3	Ti 334.940†	1032.9	-489.8	-0.3822	µg/L	-0.3822 ppb	17:32:04
3	Tl 190.801†	-13.4	2.4	3.1682	µg/L	3.1682 ppb	17:32:24
3	U 367.007†	386.0	65.0	9.7901	µg/L	9.7901 ppb	17:32:04
3	V 292.402†	232.6	-113.4	-0.5783	µg/L	-0.5783 ppb	17:32:04
3	Zn 213.857†	610.5	84.7	0.8725	µg/L	0.8725 ppb	17:32:24

Mean Data: 335304014|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1193618.4	99.744	%	0.5208				0.52%
Sc RADIAL	21264.5	99.0	%	0.32				0.32%
Y 371.029	695297.8	98.404	%	0.5820				0.59%
Ag 328.068†	-48.0	-0.6644	µg/L	0.43585	-0.6644	ppb	0.43585	65.60%
Al 396.153Radial†	8.9	21.714	µg/L	5.0334	21.714	ppb	5.0334	23.18%
As 188.979†	-5.1	-11.417	µg/L	2.3400	-11.417	ppb	2.3400	20.50%
B 249.677†	5974.5	66.312	µg/L	0.8407	66.312	ppb	0.8407	1.27%
Ba 233.527†	11857.7	172.98	µg/L	1.334	172.98	ppb	1.334	0.77%
Be 313.107†	198.8	0.0879	µg/L	0.03641	0.0879	ppb	0.03641	41.41%
Ca 317.933Radial†	16629.7	11262	µg/L	66.6	11262	ppb	66.6	0.59%
Cd 226.502†	6.2	-0.1147	µg/L	0.05869	-0.1147	ppb	0.05869	51.15%
Co 228.616†	-0.0	0.0770	µg/L	0.09187	0.0770	ppb	0.09187	119.35%
Cr 267.716†	11.5	0.2078	µg/L	0.00444	0.2078	ppb	0.00444	2.14%
Cu 324.752†	-314.1	-1.9474	µg/L	0.50591	-1.9474	ppb	0.50591	25.98%
Fe 238.204 Radial†	486.9	1651.6	µg/L	22.84	1651.6	ppb	22.84	1.38%
K 766.490 Radial†	3949.3	5155.8	µg/L	114.01	5155.8	ppb	114.01	2.21%
Mg 279.077 IEC†	638.8	4484.5	µg/L	60.41	4484.5	ppb	60.41	1.35%
Mn 257.610†	13590.2	41.251	µg/L	0.2814	41.251	ppb	0.2814	0.68%
Mo 202.031†	-7.5	-0.7162	µg/L	0.42821	-0.7162	ppb	0.42821	59.79%
Na 589.592 Radial†	10151.7	9774.0	µg/L	35.17	9774.0	ppb	35.17	0.36%

Ni 231.604†	32.7	0.9978	µg/L	0.36458	0.9978	ppb	0.36458	36.54%
P 214.914†	61.6	60.840	µg/L	5.6743	60.840	ppb	5.6743	9.33%
Pb 220.353†	-6.5	-1.5371	µg/L	1.28723	-1.5371	ppb	1.28723	83.74%
S 181.975 Axial†	50.3	171.62	µg/L	5.303	171.62	ppb	5.303	3.09%
Sb 206.836†	0.1	0.0708	µg/L	2.78907	0.0708	ppb	2.78907	>999.9%
Se 196.026†	-2.2	-2.57	µg/L	7.302	-2.57	ppb	7.302	284.30%
SiO2†	17709.8	3342.6	µg/L	19.99	3342.6	ppb	19.99	0.60%
Si 251.611†	51892.5	1560.4	µg/L	11.89	1560.4	ppb	11.89	0.76%
Sn 189.927†	-14.7	-4.9165	µg/L	1.70357	-4.9165	ppb	1.70357	34.65%
Sr 421.552†	6296.3	74.102	µg/L	0.1728	74.102	ppb	0.1728	0.23%
Ti 334.940†	-493.3	-0.3900	µg/L	0.01790	-0.3900	ppb	0.01790	4.59%
Tl 190.801†	1.4	1.7199	µg/L	2.44239	1.7199	ppb	2.44239	142.01%
U 367.007†	59.0	7.8971	µg/L	10.73845	7.8971	ppb	10.73845	135.98%
V 292.402†	-94.6	-0.4357	µg/L	0.19184	-0.4357	ppb	0.19184	44.03%
Zn 213.857†	95.7	1.0163	µg/L	0.13371	1.0163	ppb	0.13371	13.16%

Sequence No.: 10 **Autosampler Location: 308**
Sample ID: 335304015|1339675|10 **Date Collected: 11/7/2013 17:32:32**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304015|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20823.5	20823.5	96.9	%			17:33:02
1	Al 396.153Radial†	-78.8	14.9	38.038	µg/L	38.038	ppb	17:33:22
1	Ca 317.933Radial†	32198.0	33157.8	22456	µg/L	22456	ppb	17:33:02
1	Fe 238.204 Radial†	551.2	538.2	1825.7	µg/L	1825.7	ppb	17:33:22
1	K 766.490 Radial†	1635.5	1007.6	1307.9	µg/L	1307.9	ppb	17:33:02
1	Mg 279.077 IEC†	886.0	911.1	6396.1	µg/L	6396.1	ppb	17:33:22
1	Na 589.592 Radial†	21666.6	22399.3	21566	µg/L	21566	ppb	17:33:02
1	Sr 421.552†	6474.4	6642.9	78.099	µg/L	78.099	ppb	17:33:02
1	Sc 361.383	1194409.6	1194409.6	99.810	%			17:34:23
1	Y 371.029	695211.3	695211.3	98.392	%			17:34:23
1	Ag 328.068†	663.9	19.0	-0.4853	µg/L	-0.4853	ppb	17:34:25
1	As 188.979†	-7.4	-4.7	-10.346	µg/L	-10.346	ppb	17:34:45
1	B 249.677†	7251.1	7009.7	80.149	µg/L	80.149	ppb	17:34:25
1	Ba 233.527†	9009.9	9117.4	133.00	µg/L	133.00	ppb	17:34:25
1	Be 313.107†	-6210.3	567.6	0.2510	µg/L	0.2510	ppb	17:34:25
1	Cd 226.502†	-81.1	8.6	-0.0992	µg/L	-0.0992	ppb	17:34:45
1	Co 228.616†	-98.1	7.3	0.2769	µg/L	0.2769	ppb	17:34:45
1	Cr 267.716†	129.3	8.3	0.1291	µg/L	0.1291	ppb	17:34:45
1	Cu 324.752†	3535.2	-480.5	-3.0822	µg/L	-3.0822	ppb	17:34:25
1	Mn 257.610†	16960.6	16794.8	50.941	µg/L	50.941	ppb	17:34:25
1	Mo 202.031†	-28.6	-19.3	-2.0618	µg/L	-2.0618	ppb	17:34:45
1	Ni 231.604†	23.1	60.9	1.8662	µg/L	1.8662	ppb	17:34:45
1	P 214.914†	-6.6	61.5	60.577	µg/L	60.577	ppb	17:34:45
1	Pb 220.353†	95.8	-12.5	-2.8934	µg/L	-2.8934	ppb	17:34:45
1	S 181.975 Axial†	180.7	156.3	535.40	µg/L	535.40	ppb	17:34:45
1	Sb 206.836†	4.5	-2.0	-1.2775	µg/L	-1.2775	ppb	17:34:45
1	Se 196.026†	14.2	-2.7	-3.13	µg/L	-3.13	ppb	17:34:45
1	SiO2†	18801.8	16945.1	3198.2	µg/L	3198.2	ppb	17:34:25
1	Si 251.611†	49966.4	49706.8	1494.7	µg/L	1494.7	ppb	17:34:25
1	Sn 189.927†	-21.0	-24.9	-8.0426	µg/L	-8.0426	ppb	17:34:45
1	Ti 334.940†	727.1	-792.2	-0.3860	µg/L	-0.3860	ppb	17:34:25
1	Tl 190.801†	-13.0	2.8	3.4855	µg/L	3.4855	ppb	17:34:45
1	U 367.007†	387.3	67.8	7.7254	µg/L	7.7254	ppb	17:34:25
1	V 292.402†	286.3	-58.8	-0.1636	µg/L	-0.1636	ppb	17:34:25
1	Zn 213.857†	1431.8	909.9	11.761	µg/L	11.761	ppb	17:34:45
2	Sc RADIAL	21257.3	21257.3	98.9	%			17:33:24
2	Al 396.153Radial†	-94.3	0.9	13.074	µg/L	13.074	ppb	17:33:44
2	Ca 317.933Radial†	33016.8	33307.5	22558	µg/L	22558	ppb	17:33:24
2	Fe 238.204 Radial†	551.7	527.1	1788.2	µg/L	1788.2	ppb	17:33:44
2	K 766.490 Radial†	1639.9	977.6	1268.7	µg/L	1268.7	ppb	17:33:24
2	Mg 279.077 IEC†	887.7	894.1	6276.9	µg/L	6276.9	ppb	17:33:44
2	Na 589.592 Radial†	22118.8	22400.2	21567	µg/L	21567	ppb	17:33:24
2	Sr 421.552†	6631.9	6665.7	78.367	µg/L	78.367	ppb	17:33:24
2	Sc 361.383	1208178.8	1208178.8	100.96	%			17:34:47
2	Y 371.029	703305.9	703305.9	99.538	%			17:34:47
2	Ag 328.068†	600.8	-51.1	-0.9920	µg/L	-0.9920	ppb	17:34:49
2	As 188.979†	-1.7	1.0	2.5226	µg/L	2.5226	ppb	17:35:09
2	B 249.677†	7142.6	6819.4	77.928	µg/L	77.928	ppb	17:34:49
2	Ba 233.527†	9026.6	9031.1	131.74	µg/L	131.74	ppb	17:34:49
2	Be 313.107†	-6307.1	542.6	0.2399	µg/L	0.2399	ppb	17:34:49
2	Cd 226.502†	-73.3	17.2	0.0452	µg/L	0.0452	ppb	17:35:09
2	Co 228.616†	-107.3	-0.7	0.0353	µg/L	0.0353	ppb	17:35:09
2	Cr 267.716†	119.8	-2.6	-0.0884	µg/L	-0.0884	ppb	17:35:09
2	Cu 324.752†	3685.2	-372.3	-2.3210	µg/L	-2.3210	ppb	17:34:49
2	Mn 257.610†	17059.9	16699.5	50.655	µg/L	50.655	ppb	17:34:49
2	Mo 202.031†	-15.5	-6.0	-0.4648	µg/L	-0.4648	ppb	17:35:09
2	Ni 231.604†	2.0	39.7	1.2141	µg/L	1.2141	ppb	17:35:09
2	P 214.914†	0.5	68.6	67.853	µg/L	67.853	ppb	17:35:09
2	Pb 220.353†	112.0	2.4	0.4853	µg/L	0.4853	ppb	17:35:09

2	S 181.975 Axial†	179.0	152.6	522.43	µg/L	522.43	ppb	17:35:09
2	Sb 206.836†	5.8	-0.8	-0.4698	µg/L	-0.4698	ppb	17:35:09
2	Se 196.026†	14.6	-2.4	-2.74	µg/L	-2.74	ppb	17:35:09
2	SiO2†	18751.7	16680.8	3148.3	µg/L	3148.3	ppb	17:34:49
2	Si 251.611†	49872.8	49043.5	1474.7	µg/L	1474.7	ppb	17:34:49
2	Sn 189.927†	-15.3	-19.0	-5.6550	µg/L	-5.6550	ppb	17:35:09
2	Ti 334.940†	696.5	-830.9	-0.4622	µg/L	-0.4622	ppb	17:34:49
2	Tl 190.801†	-11.9	4.0	5.2392	µg/L	5.2392	ppb	17:35:09
2	U 367.007†	438.9	114.6	22.519	µg/L	22.519	ppb	17:34:49
2	V 292.402†	449.7	99.8	1.0129	µg/L	1.0129	ppb	17:34:49
2	Zn 213.857†	1430.4	892.1	11.534	µg/L	11.534	ppb	17:35:09
3	Sc RADIAL	20836.2	20836.2	97.0	%			17:33:46
3	Al 396.153Radial†	-86.3	7.3	24.347	µg/L	24.347	ppb	17:34:06
3	Ca 317.933Radial†	32151.5	33089.6	22410	µg/L	22410	ppb	17:33:46
3	Fe 238.204 Radial†	547.5	534.1	1811.9	µg/L	1811.9	ppb	17:34:06
3	K 766.490 Radial†	1696.0	1069.0	1388.1	µg/L	1388.1	ppb	17:33:46
3	Mg 279.077 IEC†	875.7	899.9	6317.6	µg/L	6317.6	ppb	17:34:06
3	Na 589.592 Radial†	21622.8	22340.6	21509	µg/L	21509	ppb	17:33:46
3	Sr 421.552†	6514.3	6680.0	78.536	µg/L	78.536	ppb	17:33:46
3	Sc 361.383	1178264.7	1178264.7	98.461	%			17:35:11
3	Y 371.029	686569.5	686569.5	97.169	%			17:35:11
3	Ag 328.068†	615.4	-21.2	-0.7790	µg/L	-0.7790	ppb	17:35:13
3	As 188.979†	-6.9	-4.3	-9.4451	µg/L	-9.4451	ppb	17:35:34
3	B 249.677†	7053.1	6908.1	78.899	µg/L	78.899	ppb	17:35:13
3	Ba 233.527†	9091.6	9324.1	136.01	µg/L	136.01	ppb	17:35:13
3	Be 313.107†	-6119.4	574.6	0.2541	µg/L	0.2541	ppb	17:35:13
3	Cd 226.502†	-71.5	17.3	0.0428	µg/L	0.0428	ppb	17:35:34
3	Co 228.616†	-97.1	7.0	0.2722	µg/L	0.2722	ppb	17:35:34
3	Cr 267.716†	147.8	28.8	0.5097	µg/L	0.5097	ppb	17:35:34
3	Cu 324.752†	3624.2	-341.5	-2.1016	µg/L	-2.1016	ppb	17:35:13
3	Mn 257.610†	17047.0	17115.3	51.920	µg/L	51.920	ppb	17:35:13
3	Mo 202.031†	-16.9	-7.7	-0.6772	µg/L	-0.6772	ppb	17:35:34
3	Ni 231.604†	12.0	50.0	1.5289	µg/L	1.5289	ppb	17:35:34
3	P 214.914†	-0.5	67.6	66.816	µg/L	66.816	ppb	17:35:34
3	Pb 220.353†	112.3	5.6	1.1959	µg/L	1.1959	ppb	17:35:34
3	S 181.975 Axial†	184.6	162.7	557.43	µg/L	557.43	ppb	17:35:34
3	Sb 206.836†	3.1	-3.4	-2.1148	µg/L	-2.1148	ppb	17:35:34
3	Se 196.026†	5.7	-11.1	-15.0	µg/L	-15.0	ppb	17:35:34
3	SiO2†	18782.5	17183.6	3243.3	µg/L	3243.3	ppb	17:35:13
3	Si 251.611†	50093.4	50521.6	1519.2	µg/L	1519.2	ppb	17:35:13
3	Sn 189.927†	-16.6	-20.7	-6.3550	µg/L	-6.3550	ppb	17:35:34
3	Ti 334.940†	633.6	-877.2	-0.5588	µg/L	-0.5588	ppb	17:35:13
3	Tl 190.801†	-18.3	-2.8	-4.2516	µg/L	-4.2516	ppb	17:35:34
3	U 367.007†	421.1	107.5	20.218	µg/L	20.218	ppb	17:35:13
3	V 292.402†	258.3	-83.3	-0.3188	µg/L	-0.3188	ppb	17:35:13
3	Zn 213.857†	1441.9	939.8	12.162	µg/L	12.162	ppb	17:35:34

Mean Data: 335304015|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1193617.7	99.744	%	1.2512				1.25%
Sc RADIAL	20972.3	97.6	%	1.15				1.18%
Y 371.029	695028.9	98.366	%	1.1846				1.20%
Ag 328.068†	-17.7	-0.7521	µg/L	0.25443	-0.7521	ppb	0.25443	33.83%
Al 396.153Radial†	7.7	25.153	µg/L	12.5015	25.153	ppb	12.5015	49.70%
As 188.979†	-2.7	-5.7562	µg/L	7.18380	-5.7562	ppb	7.18380	124.80%
B 249.677†	6912.4	78.992	µg/L	1.1134	78.992	ppb	1.1134	1.41%
Ba 233.527†	9157.5	133.58	µg/L	2.195	133.58	ppb	2.195	1.64%
Be 313.107†	561.6	0.2483	µg/L	0.00744	0.2483	ppb	0.00744	3.00%
Ca 317.933Radial†	33184.9	22475	µg/L	75.5	22475	ppb	75.5	0.34%
Cd 226.502†	14.4	-0.0038	µg/L	0.08270	-0.0038	ppb	0.08270	>999.9%
Co 228.616†	4.5	0.1948	µg/L	0.13816	0.1948	ppb	0.13816	70.91%
Cr 267.716†	11.5	0.1835	µg/L	0.30274	0.1835	ppb	0.30274	164.99%
Cu 324.752†	-398.1	-2.5016	µg/L	0.51464	-2.5016	ppb	0.51464	20.57%
Fe 238.204 Radial†	533.1	1808.6	µg/L	18.93	1808.6	ppb	18.93	1.05%
K 766.490 Radial†	1018.1	1321.5	µg/L	60.84	1321.5	ppb	60.84	4.60%
Mg 279.077 IEC†	901.7	6330.2	µg/L	60.58	6330.2	ppb	60.58	0.96%
Mn 257.610†	16869.9	51.172	µg/L	0.6634	51.172	ppb	0.6634	1.30%
Mo 202.031†	-11.0	-1.0680	µg/L	0.86725	-1.0680	ppb	0.86725	81.21%
Na 589.592 Radial†	22380.0	21547	µg/L	32.9	21547	ppb	32.9	0.15%

Ni 231.604†	50.2	1.5364	µg/L	0.32611	1.5364	ppb	0.32611	21.23%
P 214.914†	65.9	65.082	µg/L	3.9361	65.082	ppb	3.9361	6.05%
Pb 220.353†	-1.5	-0.4040	µg/L	2.18490	-0.4040	ppb	2.18490	540.77%
S 181.975 Axial†	157.2	538.42	µg/L	17.692	538.42	ppb	17.692	3.29%
Sb 206.836†	-2.1	-1.2874	µg/L	0.82255	-1.2874	ppb	0.82255	63.89%
Se 196.026†	-5.4	-6.97	µg/L	6.992	-6.97	ppb	6.992	100.30%
SiO2†	16936.5	3196.6	µg/L	47.48	3196.6	ppb	47.48	1.49%
Si 251.611†	49757.3	1496.2	µg/L	22.26	1496.2	ppb	22.26	1.49%
Sn 189.927†	-21.6	-6.6842	µg/L	1.22736	-6.6842	ppb	1.22736	18.36%
Sr 421.552†	6662.9	78.334	µg/L	0.2205	78.334	ppb	0.2205	0.28%
Ti 334.940†	-833.4	-0.4690	µg/L	0.08658	-0.4690	ppb	0.08658	18.46%
Tl 190.801†	1.3	1.4910	µg/L	5.04993	1.4910	ppb	5.04993	338.69%
U 367.007†	96.6	16.821	µg/L	7.9605	16.821	ppb	7.9605	47.33%
V 292.402†	-14.1	0.1768	µg/L	0.72822	0.1768	ppb	0.72822	411.87%
Zn 213.857†	913.9	11.819	µg/L	0.3179	11.819	ppb	0.3179	2.69%

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Sequence No.: 11 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 17:35:42**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20972.2	20972.2	97.6	%			17:36:15
1	Al 396.153Radial†	3362.3	3541.2	6328.6	µg/L	6328.6	ppb	17:36:15
1	Ca 317.933Radial†	7490.4	7607.5	5151.3	µg/L	5151.3	ppb	17:36:35
1	Fe 238.204 Radial†	1539.2	1546.5	5230.7	µg/L	5230.7	ppb	17:36:35
1	K 766.490 Radial†	4892.4	4332.6	5663.9	µg/L	5663.9	ppb	17:36:15
1	Mg 279.077 IEC†	743.9	759.0	5328.8	µg/L	5328.8	ppb	17:36:35
1	Na 589.592 Radial†	15167.4	15582.0	15002	µg/L	15002	ppb	17:36:15
1	Sr 421.552†	43591.2	44624.3	525.77	µg/L	525.77	ppb	17:36:15
1	Sc 361.383	1202810.1	1202810.1	100.51	%			17:37:36
1	Y 371.029	698620.2	698620.2	98.875	%			17:37:36
1	Ag 328.068†	74060.9	73037.2	517.80	µg/L	517.80	ppb	17:37:38
1	As 188.979†	202.0	203.7	471.08	µg/L	471.08	ppb	17:37:58
1	B 249.677†	40164.7	39704.7	475.76	µg/L	475.76	ppb	17:37:38
1	Ba 233.527†	34577.7	34491.8	504.55	µg/L	504.55	ppb	17:37:38
1	Be 313.107†	1135429.2	1136431.7	502.50	µg/L	502.50	ppb	17:37:36
1	Cd 226.502†	30804.8	30737.6	496.26	µg/L	496.26	ppb	17:37:38
1	Co 228.616†	16384.6	16406.7	500.93	µg/L	500.93	ppb	17:37:38
1	Cr 267.716†	26765.1	26507.5	502.60	µg/L	502.60	ppb	17:37:38
1	Cu 324.752†	76190.8	71780.1	506.23	µg/L	506.23	ppb	17:37:38
1	Mn 257.610†	166965.0	165915.9	505.12	µg/L	505.12	ppb	17:37:38
1	Mo 202.031†	4288.9	4276.5	514.98	µg/L	514.98	ppb	17:37:58
1	Ni 231.604†	16388.8	16343.1	503.19	µg/L	503.19	ppb	17:37:38
1	P 214.914†	2492.0	2547.4	2591.7	µg/L	2591.7	ppb	17:37:58
1	Pb 220.353†	2360.5	2240.0	509.98	µg/L	509.98	ppb	17:37:58
1	S 181.975 Axial†	324.7	298.3	1021.9	µg/L	1021.9	ppb	17:37:58
1	Sb 206.836†	828.9	818.1	521.18	µg/L	521.18	ppb	17:37:58
1	Se 196.026†	381.1	362.3	515	µg/L	515	ppb	17:37:58
1	SiO2†	30265.4	28218.7	5335.9	µg/L	5335.9	ppb	17:37:38
1	Si 251.611†	83651.7	82870.7	2485.2	µg/L	2485.2	ppb	17:37:38
1	Sn 189.927†	1314.0	1303.4	527.60	µg/L	527.60	ppb	17:37:58
1	Ti 334.940†	264437.1	261568.6	505.31	µg/L	505.31	ppb	17:37:38
1	Tl 190.801†	328.2	342.3	469.09	µg/L	469.09	ppb	17:37:58
1	U 367.007†	1908.5	1578.6	463.60	µg/L	463.60	ppb	17:37:38
1	V 292.402†	69897.4	69195.5	511.85	µg/L	511.85	ppb	17:37:38
1	Zn 213.857†	38835.5	38113.0	502.00	µg/L	502.00	ppb	17:37:38
2	Sc RADIAL	20293.8	20293.8	94.4	%			17:36:37
2	Al 396.153Radial†	3301.8	3592.3	6419.9	µg/L	6419.9	ppb	17:36:37
2	Ca 317.933Radial†	7009.3	7354.6	4980.0	µg/L	4980.0	ppb	17:36:57
2	Fe 238.204 Radial†	1441.1	1495.3	5056.6	µg/L	5056.6	ppb	17:36:57
2	K 766.490 Radial†	4607.2	4198.2	5488.5	µg/L	5488.5	ppb	17:36:37
2	Mg 279.077 IEC†	695.3	733.0	5146.4	µg/L	5146.4	ppb	17:36:57
2	Na 589.592 Radial†	14712.7	15620.0	15039	µg/L	15039	ppb	17:36:37
2	Sr 421.552†	42650.6	45121.5	531.63	µg/L	531.63	ppb	17:36:37
2	Sc 361.383	1199013.6	1199013.6	100.20	%			17:38:01
2	Y 371.029	696102.5	696102.5	98.518	%			17:38:01
2	Ag 328.068†	75128.2	74335.8	527.01	µg/L	527.01	ppb	17:38:03
2	As 188.979†	206.1	208.4	481.76	µg/L	481.76	ppb	17:38:23
2	B 249.677†	40814.0	40479.4	486.20	µg/L	486.20	ppb	17:38:03
2	Ba 233.527†	34940.9	34963.3	511.45	µg/L	511.45	ppb	17:38:03
2	Be 313.107†	1132666.1	1137250.9	502.86	µg/L	502.86	ppb	17:38:01
2	Cd 226.502†	31195.3	31224.5	504.16	µg/L	504.16	ppb	17:38:03
2	Co 228.616†	16687.2	16760.3	511.72	µg/L	511.72	ppb	17:38:03
2	Cr 267.716†	27123.8	26949.8	510.99	µg/L	510.99	ppb	17:38:03
2	Cu 324.752†	77307.1	73134.3	515.74	µg/L	515.74	ppb	17:38:03
2	Mn 257.610†	168957.1	168430.2	512.78	µg/L	512.78	ppb	17:38:03
2	Mo 202.031†	4275.6	4276.7	515.00	µg/L	515.00	ppb	17:38:23
2	Ni 231.604†	16639.8	16645.2	512.49	µg/L	512.49	ppb	17:38:03
2	P 214.914†	2475.4	2538.7	2582.9	µg/L	2582.9	ppb	17:38:23
2	Pb 220.353†	2342.1	2229.1	507.51	µg/L	507.51	ppb	17:38:23

2	S 181.975 Axial†	324.7	299.3	1025.5 µg/L	1025.5 ppb	17:38:23
2	Sb 206.836†	829.5	821.3	523.15 µg/L	523.15 ppb	17:38:23
2	Se 196.026†	373.6	356.0	505 µg/L	505 ppb	17:38:23
2	SiO2†	30591.5	28639.5	5415.5 µg/L	5415.5 ppb	17:38:03
2	Si 251.611†	84757.2	84237.5	2526.3 µg/L	2526.3 ppb	17:38:03
2	Sn 189.927†	1311.7	1305.2	528.35 µg/L	528.35 ppb	17:38:23
2	Ti 334.940†	267992.2	265949.8	513.77 µg/L	513.77 ppb	17:38:03
2	Tl 190.801†	323.0	338.2	463.29 µg/L	463.29 ppb	17:38:23
2	U 367.007†	1897.4	1573.5	462.90 µg/L	462.90 ppb	17:38:03
2	V 292.402†	70576.2	70093.2	518.37 µg/L	518.37 ppb	17:38:03
2	Zn 213.857†	39432.6	38831.2	511.49 µg/L	511.49 ppb	17:38:03
3	Sc RADIAL	21001.7	21001.7	97.7 %		17:36:59
3	Al 396.153Radial†	3349.1	3522.8	6295.7 µg/L	6295.7 ppb	17:36:59
3	Ca 317.933Radial†	7446.4	7551.7	5113.5 µg/L	5113.5 ppb	17:37:19
3	Fe 238.204 Radial†	1527.1	1531.8	5180.8 µg/L	5180.8 ppb	17:37:19
3	K 766.490 Radial†	4749.0	4178.8	5463.2 µg/L	5463.2 ppb	17:36:59
3	Mg 279.077 IEC†	737.4	751.3	5274.6 µg/L	5274.6 ppb	17:37:19
3	Na 589.592 Radial†	15048.8	15438.8	14864 µg/L	14864 ppb	17:36:59
3	Sr 421.552†	43641.6	44613.1	525.64 µg/L	525.64 ppb	17:36:59
3	Sc 361.383	1185784.0	1185784.0	99.090 %		17:38:25
3	Y 371.029	688393.9	688393.9	97.427 %		17:38:25
3	Ag 328.068†	73908.0	73940.9	524.20 µg/L	524.20 ppb	17:38:27
3	As 188.979†	203.1	207.7	480.14 µg/L	480.14 ppb	17:38:47
3	B 249.677†	39986.9	40099.1	480.96 µg/L	480.96 ppb	17:38:27
3	Ba 233.527†	34161.5	34565.8	505.64 µg/L	505.64 ppb	17:38:27
3	Be 313.107†	1134690.1	1151905.9	509.34 µg/L	509.34 ppb	17:38:25
3	Cd 226.502†	30450.4	30820.1	497.60 µg/L	497.60 ppb	17:38:27
3	Co 228.616†	16207.4	16461.9	502.61 µg/L	502.61 ppb	17:38:27
3	Cr 267.716†	26469.3	26591.3	504.18 µg/L	504.18 ppb	17:38:27
3	Cu 324.752†	76022.0	72698.1	512.68 µg/L	512.68 ppb	17:38:27
3	Mn 257.610†	165332.9	166654.0	507.37 µg/L	507.37 ppb	17:38:27
3	Mo 202.031†	4268.6	4317.2	519.88 µg/L	519.88 ppb	17:38:47
3	Ni 231.604†	16314.9	16502.5	508.10 µg/L	508.10 ppb	17:38:27
3	P 214.914†	2488.7	2579.7	2624.7 µg/L	2624.7 ppb	17:38:47
3	Pb 220.353†	2344.8	2257.9	514.04 µg/L	514.04 ppb	17:38:47
3	S 181.975 Axial†	322.0	300.2	1028.5 µg/L	1028.5 ppb	17:38:47
3	Sb 206.836†	834.6	835.8	532.45 µg/L	532.45 ppb	17:38:47
3	Se 196.026†	372.4	359.0	510 µg/L	510 ppb	17:38:47
3	SiO2†	29980.9	28363.9	5363.3 µg/L	5363.3 ppb	17:38:27
3	Si 251.611†	83209.3	83619.2	2507.7 µg/L	2507.7 ppb	17:38:27
3	Sn 189.927†	1311.3	1319.5	534.12 µg/L	534.12 ppb	17:38:47
3	Ti 334.940†	262488.8	263380.0	508.81 µg/L	508.81 ppb	17:38:27
3	Tl 190.801†	333.4	352.3	482.91 µg/L	482.91 ppb	17:38:47
3	U 367.007†	1914.5	1611.9	474.29 µg/L	474.29 ppb	17:38:27
3	V 292.402†	69335.9	69627.3	515.05 µg/L	515.05 ppb	17:38:27
3	Zn 213.857†	38341.6	38169.3	502.72 µg/L	502.72 ppb	17:38:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1195869.2	99.932	%	0.7469				0.75%
Sc RADIAL	20755.9	96.6	%	1.86				1.93%
Y 371.029	694372.2	98.273	%	0.7541				0.77%
Ag 328.068†	73771.3	523.01	µg/L	4.720	523.01	ppb	4.720	0.90%
QC value within limits for Ag 328.068 Recovery = 104.60%								
Al 396.153Radial†	3552.1	6348.1	µg/L	64.37	6348.1	ppb	64.37	1.01%
QC value greater than the upper limit for Al 396.153Radial Recovery = 126.96%								
As 188.979†	206.6	477.66	µg/L	5.754	477.66	ppb	5.754	1.20%
QC value within limits for As 188.979 Recovery = 95.53%								
B 249.677†	40094.4	480.97	µg/L	5.221	480.97	ppb	5.221	1.09%
QC value within limits for B 249.677 Recovery = 96.19%								
Ba 233.527†	34673.6	507.21	µg/L	3.709	507.21	ppb	3.709	0.73%
QC value within limits for Ba 233.527 Recovery = 101.44%								
Be 313.107†	1141862.9	504.90	µg/L	3.850	504.90	ppb	3.850	0.76%
QC value within limits for Be 313.107 Recovery = 100.98%								
Ca 317.933Radial†	7504.6	5081.6	µg/L	89.97	5081.6	ppb	89.97	1.77%
QC value within limits for Ca 317.933Radial Recovery = 101.63%								
Cd 226.502†	30927.4	499.34	µg/L	4.224	499.34	ppb	4.224	0.85%
QC value within limits for Cd 226.502 Recovery = 99.87%								
Co 228.616†	16543.0	505.09	µg/L	5.805	505.09	ppb	5.805	1.15%

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   QC value within limits for Co 228.616  Recovery = 101.02%
Cr 267.716†            26682.9      505.92 µg/L         4.456      505.92 ppb          4.456   0.88%
   QC value within limits for Cr 267.716  Recovery = 101.18%
Cu 324.752†            72537.5      511.55 µg/L         4.855      511.55 ppb          4.855   0.95%
   QC value within limits for Cu 324.752  Recovery = 102.31%
Fe 238.204 Radial†      1524.5      5156.0 µg/L         89.67      5156.0 ppb          89.67   1.74%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.12%
K 766.490 Radial†       4236.6      5538.5 µg/L        109.34      5538.5 ppb         109.34   1.97%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 110.77%
Mg 279.077 IEC†          747.7      5249.9 µg/L         93.65      5249.9 ppb          93.65   1.78%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.00%
Mn 257.610†           167000.1      508.42 µg/L         3.937      508.42 ppb          3.937   0.77%
   QC value within limits for Mn 257.610  Recovery = 101.68%
Mo 202.031†             4290.1      516.62 µg/L         2.825      516.62 ppb          2.825   0.55%
   QC value within limits for Mo 202.031  Recovery = 103.32%
Na 589.592 Radial†     15546.9       14969 µg/L          92.0       14969 ppb           92.0   0.61%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 149.69%
Ni 231.604†            16496.9      507.93 µg/L         4.654      507.93 ppb          4.654   0.92%
   QC value within limits for Ni 231.604  Recovery = 101.59%
P 214.914†              2555.3      2599.8 µg/L         22.03      2599.8 ppb          22.03   0.85%
   QC value within limits for P 214.914  Recovery = 103.99%
Pb 220.353†             2242.3      510.51 µg/L         3.295      510.51 ppb          3.295   0.65%
   QC value within limits for Pb 220.353  Recovery = 102.10%
S 181.975 Axial†         299.3      1025.3 µg/L          3.31      1025.3 ppb           3.31   0.32%
   QC value within limits for S 181.975 Axial  Recovery = 102.53%
Sb 206.836†              825.1      525.60 µg/L         6.020      525.60 ppb          6.020   1.15%
   QC value within limits for Sb 206.836  Recovery = 105.12%
Se 196.026†              359.1         510 µg/L           4.5         510 ppb            4.5   0.88%
   QC value within limits for Se 196.026  Recovery = 101.98%
SiO2†                  28407.4      5371.6 µg/L         40.43      5371.6 ppb          40.43   0.75%
   QC value within limits for SiO2  Recovery = 100.45%
Si 251.611†            83575.8      2506.4 µg/L         20.57      2506.4 ppb          20.57   0.82%
   QC value within limits for Si 251.611  Recovery = 100.26%
Sn 189.927†             1309.4      530.02 µg/L         3.567      530.02 ppb          3.567   0.67%
   QC value within limits for Sn 189.927  Recovery = 106.00%
Sr 421.552†            44786.3      527.68 µg/L         3.422      527.68 ppb          3.422   0.65%
   QC value within limits for Sr 421.552  Recovery = 105.54%
Ti 334.940†           263632.8      509.30 µg/L         4.250      509.30 ppb          4.250   0.83%
   QC value within limits for Ti 334.940  Recovery = 101.86%
Tl 190.801†              344.3      471.76 µg/L        10.077      471.76 ppb         10.077   2.14%
   QC value within limits for Tl 190.801  Recovery = 94.35%
U 367.007†              1588.0      466.93 µg/L         6.385      466.93 ppb          6.385   1.37%
   QC value within limits for U 367.007  Recovery = 93.39%
V 292.402†             69638.7      515.09 µg/L         3.260      515.09 ppb          3.260   0.63%
   QC value within limits for V 292.402  Recovery = 103.02%
Zn 213.857†            38371.1      505.40 µg/L         5.285      505.40 ppb          5.285   1.05%
   QC value within limits for Zn 213.857  Recovery = 101.08%
QC Failed.  Continue with analysis.
```

Sequence No.: 12 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 17:38:56**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20869.9	20869.9	97.1	%			17:39:44
1	Al 396.153Radial†	-80.9	12.9	23.109	µg/L	23.109	ppb	17:39:44
1	Ca 317.933Radial†	71.2	6.3	4.2672	µg/L	4.2672	ppb	17:40:04
1	Fe 238.204 Radial†	28.7	-1.0	-3.3435	µg/L	-3.3435	ppb	17:40:04
1	K 766.490 Radial†	570.8	-92.3	-120.58	µg/L	-120.58	ppb	17:39:44
1	Mg 279.077 IEC†	-6.8	-10.2	-71.388	µg/L	-71.388	ppb	17:40:04
1	Na 589.592 Radial†	-28.8	12.2	11.708	µg/L	11.708	ppb	17:39:44
1	Sr 421.552†	43.5	6.8	0.0796	µg/L	0.0796	ppb	17:39:44
1	Sc 361.383	1173222.5	1173222.5	98.040	%			17:41:41
1	Y 371.029	695380.4	695380.4	98.416	%			17:41:41
1	Ag 328.068†	596.5	-37.7	-0.2609	µg/L	-0.2609	ppb	17:41:43
1	As 188.979†	-0.6	2.1	4.8266	µg/L	4.8266	ppb	17:42:03
1	B 249.677†	297.6	48.4	0.6647	µg/L	0.6647	ppb	17:42:03
1	Ba 233.527†	-109.8	-21.6	-0.3158	µg/L	-0.3158	ppb	17:42:03
1	Be 313.107†	-5977.4	692.8	0.3064	µg/L	0.3064	ppb	17:41:43
1	Cd 226.502†	-104.0	-16.2	-0.2619	µg/L	-0.2619	ppb	17:42:03
1	Co 228.616†	-111.6	-8.3	-0.2528	µg/L	-0.2528	ppb	17:42:03
1	Cr 267.716†	127.6	8.9	0.1748	µg/L	0.1748	ppb	17:42:03
1	Cu 324.752†	3628.2	-321.6	-2.2672	µg/L	-2.2672	ppb	17:41:43
1	Mn 257.610†	193.7	-0.5	0.0012	µg/L	0.0012	ppb	17:42:03
1	Mo 202.031†	-11.2	-2.0	-0.2465	µg/L	-0.2465	ppb	17:42:03
1	Ni 231.604†	-43.1	-6.2	-0.1906	µg/L	-0.1906	ppb	17:42:03
1	P 214.914†	-62.3	4.6	4.7498	µg/L	4.7498	ppb	17:42:03
1	Pb 220.353†	92.0	-14.6	-3.3147	µg/L	-3.3147	ppb	17:42:03
1	S 181.975 Axial†	28.5	4.3	14.777	µg/L	14.777	ppb	17:42:03
1	Sb 206.836†	3.1	-3.4	-2.1731	µg/L	-2.1731	ppb	17:42:03
1	Se 196.026†	11.2	-5.4	-7.70	µg/L	-7.70	ppb	17:42:03
1	SiO2†	1741.6	-116.0	-21.898	µg/L	-21.898	ppb	17:42:03
1	Si 251.611†	402.4	55.7	1.6788	µg/L	1.6788	ppb	17:42:03
1	Sn 189.927†	-2.2	-6.1	-2.4796	µg/L	-2.4796	ppb	17:42:03
1	Ti 334.940†	1342.8	-151.0	-0.2877	µg/L	-0.2877	ppb	17:41:43
1	Tl 190.801†	-17.5	-2.0	-2.7655	µg/L	-2.7655	ppb	17:42:03
1	U 367.007†	291.3	-23.1	-7.1903	µg/L	-7.1903	ppb	17:41:43
1	V 292.402†	328.1	-11.0	-0.0869	µg/L	-0.0869	ppb	17:41:43
1	Zn 213.857†	542.4	28.6	0.3835	µg/L	0.3835	ppb	17:42:03
2	Sc RADIAL	20726.2	20726.2	96.5	%			17:40:24
2	Al 396.153Radial†	-89.8	3.1	5.6112	µg/L	5.6112	ppb	17:40:24
2	Ca 317.933Radial†	68.3	3.8	2.6126	µg/L	2.6126	ppb	17:40:44
2	Fe 238.204 Radial†	25.6	-4.0	-13.618	µg/L	-13.618	ppb	17:40:44
2	K 766.490 Radial†	577.6	-81.2	-106.02	µg/L	-106.02	ppb	17:40:24
2	Mg 279.077 IEC†	-0.8	-4.1	-28.623	µg/L	-28.623	ppb	17:40:44
2	Na 589.592 Radial†	-63.0	-23.5	-22.590	µg/L	-22.590	ppb	17:40:24
2	Sr 421.552†	52.0	15.9	0.1876	µg/L	0.1876	ppb	17:40:24
2	Sc 361.383	1184937.2	1184937.2	99.019	%			17:42:05
2	Y 371.029	702697.0	702697.0	99.451	%			17:42:05
2	Ag 328.068†	595.2	-45.0	-0.3226	µg/L	-0.3226	ppb	17:42:07
2	As 188.979†	-3.7	-1.0	-2.3885	µg/L	-2.3885	ppb	17:42:28
2	B 249.677†	290.1	37.8	0.5651	µg/L	0.5651	ppb	17:42:28
2	Ba 233.527†	-101.6	-12.2	-0.1784	µg/L	-0.1784	ppb	17:42:28
2	Be 313.107†	-5784.4	948.0	0.4192	µg/L	0.4192	ppb	17:42:07
2	Cd 226.502†	-75.0	14.1	0.2301	µg/L	0.2301	ppb	17:42:28
2	Co 228.616†	-113.2	-8.8	-0.2672	µg/L	-0.2672	ppb	17:42:28
2	Cr 267.716†	110.6	-9.5	-0.1841	µg/L	-0.1841	ppb	17:42:28
2	Cu 324.752†	3778.8	-206.1	-1.4501	µg/L	-1.4501	ppb	17:42:07
2	Mn 257.610†	182.5	-13.8	-0.0413	µg/L	-0.0413	ppb	17:42:28
2	Mo 202.031†	-13.1	-3.8	-0.4547	µg/L	-0.4547	ppb	17:42:28
2	Ni 231.604†	-20.8	16.7	0.5148	µg/L	0.5148	ppb	17:42:28
2	P 214.914†	-53.0	14.6	14.940	µg/L	14.940	ppb	17:42:28
2	Pb 220.353†	105.1	-2.3	-0.5280	µg/L	-0.5280	ppb	17:42:28

2	S 181.975 Axial†	17.6	-7.0	-24.076	µg/L	-24.076	ppb	17:42:28
2	Sb 206.836†	1.0	-5.5	-3.5102	µg/L	-3.5102	ppb	17:42:28
2	Se 196.026†	7.6	-9.2	-13.0	µg/L	-13.0	ppb	17:42:28
2	SiO2†	1715.9	-159.6	-30.119	µg/L	-30.119	ppb	17:42:28
2	Si 251.611†	364.8	13.8	0.4180	µg/L	0.4180	ppb	17:42:28
2	Sn 189.927†	0.2	-3.7	-1.4852	µg/L	-1.4852	ppb	17:42:28
2	Ti 334.940†	1280.6	-227.4	-0.4415	µg/L	-0.4415	ppb	17:42:07
2	Tl 190.801†	-19.4	-3.7	-5.1665	µg/L	-5.1665	ppb	17:42:28
2	U 367.007†	330.9	14.0	4.4556	µg/L	4.4556	ppb	17:42:07
2	V 292.402†	342.0	-0.2	-0.0067	µg/L	-0.0067	ppb	17:42:07
2	Zn 213.857†	507.6	-12.0	-0.1591	µg/L	-0.1591	ppb	17:42:28
3	Sc RADIAL	20772.6	20772.6	96.7	%			17:41:04
3	Al 396.153Radial†	-88.2	4.9	8.8615	µg/L	8.8615	ppb	17:41:04
3	Ca 317.933Radial†	71.8	7.2	4.9129	µg/L	4.9129	ppb	17:41:24
3	Fe 238.204 Radial†	27.9	-1.7	-5.8550	µg/L	-5.8550	ppb	17:41:24
3	K 766.490 Radial†	589.1	-70.7	-92.307	µg/L	-92.307	ppb	17:41:04
3	Mg 279.077 IEC†	-2.8	-6.1	-43.138	µg/L	-43.138	ppb	17:41:24
3	Na 589.592 Radial†	-39.3	1.3	1.2064	µg/L	1.2064	ppb	17:41:04
3	Sr 421.552†	53.8	17.7	0.2082	µg/L	0.2082	ppb	17:41:04
3	Sc 361.383	1179849.5	1179849.5	98.594	%			17:42:30
3	Y 371.029	699803.3	699803.3	99.042	%			17:42:30
3	Ag 328.068†	463.2	-176.3	-1.2453	µg/L	-1.2453	ppb	17:42:32
3	As 188.979†	-4.1	-1.4	-3.2791	µg/L	-3.2791	ppb	17:42:52
3	B 249.677†	298.6	47.6	0.6549	µg/L	0.6549	ppb	17:42:52
3	Ba 233.527†	-92.0	-2.9	-0.0447	µg/L	-0.0447	ppb	17:42:52
3	Be 313.107†	-5964.4	740.2	0.3273	µg/L	0.3273	ppb	17:42:32
3	Cd 226.502†	-69.4	19.5	0.3155	µg/L	0.3155	ppb	17:42:52
3	Co 228.616†	-98.3	5.9	0.1804	µg/L	0.1804	ppb	17:42:52
3	Cr 267.716†	108.3	-11.3	-0.2114	µg/L	-0.2114	ppb	17:42:52
3	Cu 324.752†	3802.6	-165.6	-1.1683	µg/L	-1.1683	ppb	17:42:32
3	Mn 257.610†	189.4	-6.0	-0.0167	µg/L	-0.0167	ppb	17:42:52
3	Mo 202.031†	-18.9	-9.7	-1.1697	µg/L	-1.1697	ppb	17:42:52
3	Ni 231.604†	-45.7	-8.7	-0.2664	µg/L	-0.2664	ppb	17:42:52
3	P 214.914†	-67.3	-0.2	-0.1338	µg/L	-0.1338	ppb	17:42:52
3	Pb 220.353†	100.0	-7.0	-1.5975	µg/L	-1.5975	ppb	17:42:52
3	S 181.975 Axial†	20.6	-3.8	-13.169	µg/L	-13.169	ppb	17:42:52
3	Sb 206.836†	6.9	0.5	0.3071	µg/L	0.3071	ppb	17:42:52
3	Se 196.026†	14.1	-2.5	-3.59	µg/L	-3.59	ppb	17:42:52
3	SiO2†	1746.5	-121.0	-22.848	µg/L	-22.848	ppb	17:42:52
3	Si 251.611†	385.0	35.8	1.0912	µg/L	1.0912	ppb	17:42:52
3	Sn 189.927†	2.9	-1.0	-0.3912	µg/L	-0.3912	ppb	17:42:52
3	Ti 334.940†	1282.5	-219.9	-0.4215	µg/L	-0.4215	ppb	17:42:32
3	Tl 190.801†	-12.7	3.0	4.1059	µg/L	4.1059	ppb	17:42:52
3	U 367.007†	297.7	-18.3	-5.6794	µg/L	-5.6794	ppb	17:42:32
3	V 292.402†	233.7	-108.6	-0.8091	µg/L	-0.8091	ppb	17:42:32
3	Zn 213.857†	522.3	5.1	0.0711	µg/L	0.0711	ppb	17:42:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1179336.4	98.551	%	0.4909				0.50%
Sc RADIAL	20789.6	96.8	%	0.34				0.35%
Y 371.029	699293.6	98.970	%	0.5215				0.53%
Ag 328.068†	-86.4	-0.6096	µg/L	0.55137	-0.6096	ppb	0.55137	90.45%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	7.0	12.527	µg/L	9.3073	12.527	ppb	9.3073	74.30%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-0.1	-0.2803	µg/L	4.44509	-0.2803	ppb	4.44509	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	44.6	0.6282	µg/L	0.05487	0.6282	ppb	0.05487	8.73%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-12.3	-0.1796	µg/L	0.13553	-0.1796	ppb	0.13553	75.46%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	793.7	0.3509	µg/L	0.06002	0.3509	ppb	0.06002	17.10%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	5.8	3.9309	µg/L	1.18647	3.9309	ppb	1.18647	30.18%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	5.8	0.0946	µg/L	0.31165	0.0946	ppb	0.31165	329.55%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	-3.7	-0.1132	µg/L	0.25436	-0.1132	ppb	0.25436	224.64%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -4.0     -0.0736 µg/L       0.21548     -0.0736 ppb        0.21548 292.92%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†              -231.1     -1.6285 µg/L       0.57076     -1.6285 ppb        0.57076  35.05%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†         -2.2     -7.6054 µg/L       5.35607     -7.6054 ppb        5.35607  70.42%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         -81.4     -106.30 µg/L        14.140     -106.30 ppb         14.140  13.30%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            -6.8     -47.716 µg/L       21.7470     -47.716 ppb        21.7470  45.58%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                -6.7     -0.0189 µg/L       0.02131     -0.0189 ppb        0.02131 112.64%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                -5.2     -0.6236 µg/L       0.48423     -0.6236 ppb        0.48423  77.65%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†         -3.3     -3.2253 µg/L      17.57340     -3.2253 ppb       17.57340 544.87%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 0.6      0.0193 µg/L       0.43086      0.0193 ppb        0.43086 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                  6.3      6.5188 µg/L       7.69123      6.5188 ppb        7.69123 117.99%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                -8.0     -1.8134 µg/L       1.40583     -1.8134 ppb        1.40583  77.52%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -2.2     -7.4890 µg/L      20.03951     -7.4890 ppb       20.03951 267.59%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                -2.8     -1.7921 µg/L       1.93697     -1.7921 ppb        1.93697 108.09%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                -5.7       -8.09 µg/L         4.708       -8.09 ppb          4.708  58.19%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -132.2     -24.955 µg/L        4.4971     -24.955 ppb         4.4971  18.02%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                35.1      1.0627 µg/L       0.63085      1.0627 ppb        0.63085  59.36%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -3.6     -1.4520 µg/L       1.04457     -1.4520 ppb        1.04457  71.94%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                13.5      0.1585 µg/L       0.06907      0.1585 ppb        0.06907  43.58%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†              -199.5     -0.3835 µg/L       0.08364     -0.3835 ppb        0.08364  21.81%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                -0.9     -1.2754 µg/L       4.81249     -1.2754 ppb        4.81249 377.34%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 -9.1     -2.8047 µg/L       6.33281     -2.8047 ppb        6.33281 225.79%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -39.9     -0.3009 µg/L       0.44192     -0.3009 ppb        0.44192 146.86%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                 7.2      0.0985 µg/L       0.27234      0.0985 ppb        0.27234 276.55%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 13 **Autosampler Location: 309**
Sample ID: 335304016|1339675|10 **Date Collected: 11/7/2013 17:43:00**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304016|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21456.6	21456.6	99.9	%			17:43:33
1	Al 396.153Radial†	-89.9	6.2	22.661	µg/L	22.661	ppb	17:43:53
1	Ca 317.933Radial†	33600.6	33582.1	22744	µg/L	22744	ppb	17:43:33
1	Fe 238.204 Radial†	558.0	528.3	1792.1	µg/L	1792.1	ppb	17:43:53
1	K 766.490 Radial†	1749.0	1071.6	1391.5	µg/L	1391.5	ppb	17:43:33
1	Mg 279.077 IEC†	904.2	902.3	6334.5	µg/L	6334.5	ppb	17:43:53
1	Na 589.592 Radial†	22150.0	22223.9	21397	µg/L	21397	ppb	17:43:33
1	Sr 421.552†	6734.8	6706.5	78.847	µg/L	78.847	ppb	17:43:33
1	Sc 361.383	1201241.5	1201241.5	100.38	%			17:44:55
1	Y 371.029	700439.6	700439.6	99.132	%			17:44:55
1	Ag 328.068†	617.0	-31.5	-0.8437	µg/L	-0.8437	ppb	17:44:57
1	As 188.979†	-9.0	-6.2	-13.891	µg/L	-13.891	ppb	17:45:17
1	B 249.677†	7152.2	6869.8	78.494	µg/L	78.494	ppb	17:44:57
1	Ba 233.527†	8966.1	9022.5	131.61	µg/L	131.61	ppb	17:44:57
1	Be 313.107†	-6173.3	639.8	0.2829	µg/L	0.2829	ppb	17:44:57
1	Cd 226.502†	-78.7	11.5	-0.0483	µg/L	-0.0483	ppb	17:45:17
1	Co 228.616†	-96.0	10.0	0.3611	µg/L	0.3611	ppb	17:45:17
1	Cr 267.716†	140.3	18.6	0.3246	µg/L	0.3246	ppb	17:45:17
1	Cu 324.752†	3518.5	-517.3	-3.3483	µg/L	-3.3483	ppb	17:44:57
1	Mn 257.610†	16954.6	16692.1	50.630	µg/L	50.630	ppb	17:44:57
1	Mo 202.031†	-14.7	-5.2	-0.3770	µg/L	-0.3770	ppb	17:45:17
1	Ni 231.604†	-13.5	24.3	0.7382	µg/L	0.7382	ppb	17:45:17
1	P 214.914†	0.2	68.3	67.544	µg/L	67.544	ppb	17:45:17
1	Pb 220.353†	93.1	-15.7	-3.6150	µg/L	-3.6150	ppb	17:45:17
1	S 181.975 Axial†	179.4	154.0	527.37	µg/L	527.37	ppb	17:45:17
1	Sb 206.836†	11.9	5.4	3.4408	µg/L	3.4408	ppb	17:45:17
1	Se 196.026†	6.8	-10.1	-13.6	µg/L	-13.6	ppb	17:45:17
1	SiO2†	18700.2	16736.8	3158.9	µg/L	3158.9	ppb	17:44:57
1	Si 251.611†	49571.0	49028.1	1474.3	µg/L	1474.3	ppb	17:44:57
1	Sn 189.927†	-23.7	-27.5	-9.0684	µg/L	-9.0684	ppb	17:45:17
1	Ti 334.940†	502.9	-1019.7	-0.8086	µg/L	-0.8086	ppb	17:44:57
1	Tl 190.801†	-12.4	3.5	4.4823	µg/L	4.4823	ppb	17:45:17
1	U 367.007†	378.8	57.2	4.5142	µg/L	4.5142	ppb	17:44:57
1	V 292.402†	375.4	28.3	0.4851	µg/L	0.4851	ppb	17:44:57
1	Zn 213.857†	652.1	125.0	1.3581	µg/L	1.3581	ppb	17:45:17
2	Sc RADIAL	20657.1	20657.1	96.1	%			17:43:55
2	Al 396.153Radial†	-100.2	-8.0	-2.6877	µg/L	-2.6877	ppb	17:44:15
2	Ca 317.933Radial†	32488.9	33728.0	22843	µg/L	22843	ppb	17:43:55
2	Fe 238.204 Radial†	551.7	543.3	1843.0	µg/L	1843.0	ppb	17:44:15
2	K 766.490 Radial†	1705.1	1093.7	1420.3	µg/L	1420.3	ppb	17:43:55
2	Mg 279.077 IEC†	898.4	931.4	6538.4	µg/L	6538.4	ppb	17:44:15
2	Na 589.592 Radial†	21619.0	22530.0	21692	µg/L	21692	ppb	17:43:55
2	Sr 421.552†	6559.2	6784.9	79.769	µg/L	79.769	ppb	17:43:55
2	Sc 361.383	1166631.5	1166631.5	97.489	%			17:45:19
2	Y 371.029	680977.3	680977.3	96.378	%			17:45:19
2	Ag 328.068†	555.8	-76.1	-1.1549	µg/L	-1.1549	ppb	17:45:21
2	As 188.979†	-6.6	-4.1	-9.0278	µg/L	-9.0278	ppb	17:45:41
2	B 249.677†	7307.2	7240.2	82.917	µg/L	82.917	ppb	17:45:21
2	Ba 233.527†	9186.3	9513.3	138.77	µg/L	138.77	ppb	17:45:21
2	Be 313.107†	-6217.4	412.2	0.1823	µg/L	0.1823	ppb	17:45:21
2	Cd 226.502†	-79.6	8.2	-0.1079	µg/L	-0.1079	ppb	17:45:41
2	Co 228.616†	-95.8	7.3	0.2820	µg/L	0.2820	ppb	17:45:41
2	Cr 267.716†	121.2	3.1	0.0377	µg/L	0.0377	ppb	17:45:41
2	Cu 324.752†	3549.2	-381.7	-2.3914	µg/L	-2.3914	ppb	17:45:21
2	Mn 257.610†	17361.0	17610.1	53.419	µg/L	53.419	ppb	17:45:21
2	Mo 202.031†	-25.5	-16.7	-1.7480	µg/L	-1.7480	ppb	17:45:41
2	Ni 231.604†	15.0	53.2	1.6272	µg/L	1.6272	ppb	17:45:41
2	P 214.914†	0.6	68.7	67.917	µg/L	67.917	ppb	17:45:41
2	Pb 220.353†	96.5	-9.4	-2.1930	µg/L	-2.1930	ppb	17:45:41

2	S 181.975 Axial†	179.5	159.4	545.80	µg/L	545.80	ppb	17:45:41
2	Sb 206.836†	3.1	-3.3	-2.0732	µg/L	-2.0732	ppb	17:45:41
2	Se 196.026†	9.0	-7.6	-10.1	µg/L	-10.1	ppb	17:45:41
2	SiO2†	18955.8	17551.6	3312.7	µg/L	3312.7	ppb	17:45:21
2	Si 251.611†	50779.3	51732.5	1555.6	µg/L	1555.6	ppb	17:45:21
2	Sn 189.927†	-27.7	-32.4	-11.019	µg/L	-11.019	ppb	17:45:41
2	Ti 334.940†	636.0	-868.4	-0.5060	µg/L	-0.5060	ppb	17:45:21
2	Tl 190.801†	-15.6	-0.1	-0.5528	µg/L	-0.5528	ppb	17:45:41
2	U 367.007†	332.9	21.3	-6.9790	µg/L	-6.9790	ppb	17:45:21
2	V 292.402†	280.7	-57.7	-0.1578	µg/L	-0.1578	ppb	17:45:21
2	Zn 213.857†	624.7	116.1	1.2253	µg/L	1.2253	ppb	17:45:41
3	Sc RADIAL	21006.3	21006.3	97.8	%			17:44:17
3	Al 396.153Radial†	-84.4	9.9	29.228	µg/L	29.228	ppb	17:44:37
3	Ca 317.933Radial†	33044.1	33734.2	22847	µg/L	22847	ppb	17:44:17
3	Fe 238.204 Radial†	551.4	533.5	1809.7	µg/L	1809.7	ppb	17:44:37
3	K 766.490 Radial†	1660.5	1018.5	1322.1	µg/L	1322.1	ppb	17:44:17
3	Mg 279.077 IEC†	898.5	915.8	6429.4	µg/L	6429.4	ppb	17:44:37
3	Na 589.592 Radial†	21796.6	22337.9	21507	µg/L	21507	ppb	17:44:17
3	Sr 421.552†	6672.2	6787.1	79.795	µg/L	79.795	ppb	17:44:17
3	Sc 361.383	1207947.4	1207947.4	100.94	%			17:45:43
3	Y 371.029	703939.8	703939.8	99.627	%			17:45:43
3	Ag 328.068†	660.5	8.2	-0.5614	µg/L	-0.5614	ppb	17:45:45
3	As 188.979†	-4.5	-1.8	-3.7475	µg/L	-3.7475	ppb	17:46:05
3	B 249.677†	7357.9	7034.1	80.507	µg/L	80.507	ppb	17:45:45
3	Ba 233.527†	9253.8	9257.9	135.05	µg/L	135.05	ppb	17:45:45
3	Be 313.107†	-6203.9	643.7	0.2846	µg/L	0.2846	ppb	17:45:45
3	Cd 226.502†	-81.2	9.4	-0.0835	µg/L	-0.0835	ppb	17:46:05
3	Co 228.616†	-100.8	5.7	0.2318	µg/L	0.2318	ppb	17:46:05
3	Cr 267.716†	156.5	33.8	0.6166	µg/L	0.6166	ppb	17:46:05
3	Cu 324.752†	3579.4	-476.4	-3.0609	µg/L	-3.0609	ppb	17:45:45
3	Mn 257.610†	17385.7	17025.5	51.642	µg/L	51.642	ppb	17:45:45
3	Mo 202.031†	-19.4	-9.8	-0.9204	µg/L	-0.9204	ppb	17:46:05
3	Ni 231.604†	8.3	45.9	1.4045	µg/L	1.4045	ppb	17:46:05
3	P 214.914†	-7.3	61.0	60.009	µg/L	60.009	ppb	17:46:05
3	Pb 220.353†	115.6	6.1	1.3386	µg/L	1.3386	ppb	17:46:05
3	S 181.975 Axial†	182.2	155.8	533.40	µg/L	533.40	ppb	17:46:05
3	Sb 206.836†	4.7	-1.8	-1.1482	µg/L	-1.1482	ppb	17:46:05
3	Se 196.026†	12.9	-4.0	-5.11	µg/L	-5.11	ppb	17:46:05
3	SiO2†	19160.8	17089.6	3225.5	µg/L	3225.5	ppb	17:45:45
3	Si 251.611†	50950.7	50120.8	1507.1	µg/L	1507.1	ppb	17:45:45
3	Sn 189.927†	-18.2	-22.0	-6.8123	µg/L	-6.8123	ppb	17:46:05
3	Ti 334.940†	643.2	-883.5	-0.5371	µg/L	-0.5371	ppb	17:45:45
3	Tl 190.801†	-16.7	-0.8	-1.4149	µg/L	-1.4149	ppb	17:46:05
3	U 367.007†	359.7	36.2	-2.1474	µg/L	-2.1474	ppb	17:45:45
3	V 292.402†	326.0	-22.6	0.1065	µg/L	0.1065	ppb	17:45:45
3	Zn 213.857†	652.4	121.7	1.3065	µg/L	1.3065	ppb	17:46:05

Mean Data: 335304016|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1191940.1	99.604	%	1.8529				1.86%
Sc RADIAL	21040.0	97.9	%	1.87				1.90%
Y 371.029	695118.9	98.379	%	1.7509				1.78%
Ag 328.068†	-33.1	-0.8533	µg/L	0.29688	-0.8533	ppb	0.29688	34.79%
Al 396.153Radial†	2.7	16.400	µg/L	16.8536	16.400	ppb	16.8536	102.76%
As 188.979†	-4.0	-8.8888	µg/L	5.07314	-8.8888	ppb	5.07314	57.07%
B 249.677†	7048.0	80.640	µg/L	2.2142	80.640	ppb	2.2142	2.75%
Ba 233.527†	9264.6	135.14	µg/L	3.580	135.14	ppb	3.580	2.65%
Be 313.107†	565.2	0.2499	µg/L	0.05860	0.2499	ppb	0.05860	23.45%
Ca 317.933Radial†	33681.4	22811	µg/L	58.3	22811	ppb	58.3	0.26%
Cd 226.502†	9.7	-0.0799	µg/L	0.02997	-0.0799	ppb	0.02997	37.51%
Co 228.616†	7.7	0.2916	µg/L	0.06521	0.2916	ppb	0.06521	22.36%
Cr 267.716†	18.5	0.3263	µg/L	0.28948	0.3263	ppb	0.28948	88.72%
Cu 324.752†	-458.5	-2.9335	µg/L	0.49102	-2.9335	ppb	0.49102	16.74%
Fe 238.204 Radial†	535.0	1815.0	µg/L	25.83	1815.0	ppb	25.83	1.42%
K 766.490 Radial†	1061.3	1378.0	µg/L	50.44	1378.0	ppb	50.44	3.66%
Mg 279.077 IEC†	916.5	6434.1	µg/L	102.03	6434.1	ppb	102.03	1.59%
Mn 257.610†	17109.2	51.897	µg/L	1.4116	51.897	ppb	1.4116	2.72%
Mo 202.031†	-10.6	-1.0151	µg/L	0.69037	-1.0151	ppb	0.69037	68.01%
Na 589.592 Radial†	22363.9	21532	µg/L	149.0	21532	ppb	149.0	0.69%

Ni 231.604†	41.1	1.2566	µg/L	0.46259	1.2566	ppb	0.46259	36.81%
P 214.914†	66.0	65.157	µg/L	4.4621	65.157	ppb	4.4621	6.85%
Pb 220.353†	-6.3	-1.4898	µg/L	2.55057	-1.4898	ppb	2.55057	171.20%
S 181.975 Axial†	156.4	535.53	µg/L	9.398	535.53	ppb	9.398	1.75%
Sb 206.836†	0.1	0.0731	µg/L	2.95293	0.0731	ppb	2.95293	>999.9%
Se 196.026†	-7.2	-9.63	µg/L	4.290	-9.63	ppb	4.290	44.56%
SiO2†	17126.0	3232.4	µg/L	77.12	3232.4	ppb	77.12	2.39%
Si 251.611†	50293.8	1512.3	µg/L	40.92	1512.3	ppb	40.92	2.71%
Sn 189.927†	-27.3	-8.9666	µg/L	2.10524	-8.9666	ppb	2.10524	23.48%
Sr 421.552†	6759.5	79.470	µg/L	0.5402	79.470	ppb	0.5402	0.68%
Ti 334.940†	-923.9	-0.6172	µg/L	0.16642	-0.6172	ppb	0.16642	26.96%
Tl 190.801†	0.9	0.8382	µg/L	3.18522	0.8382	ppb	3.18522	380.01%
U 367.007†	38.2	-1.5374	µg/L	5.77084	-1.5374	ppb	5.77084	375.36%
V 292.402†	-17.3	0.1446	µg/L	0.32315	0.1446	ppb	0.32315	223.49%
Zn 213.857†	121.0	1.2966	µg/L	0.06693	1.2966	ppb	0.06693	5.16%

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Sequence No.: 14 **Autosampler Location: 310**
Sample ID: 335304017|1339675|10 **Date Collected: 11/7/2013 17:46:14**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304017|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21895.5	21895.5	102	%			17:46:44
1	Al 396.153Radial†	-90.1	7.8	27.182	µg/L	27.182	ppb	17:47:04
1	Ca 317.933Radial†	39172.2	38375.3	25990	µg/L	25990	ppb	17:46:44
1	Fe 238.204 Radial†	1042.1	992.2	3365.7	µg/L	3365.7	ppb	17:47:04
1	K 766.490 Radial†	2450.0	1724.4	2240.0	µg/L	2240.0	ppb	17:46:44
1	Mg 279.077 IEC†	1085.9	1062.4	7458.8	µg/L	7458.8	ppb	17:47:04
1	Na 589.592 Radial†	33317.1	32738.2	31520	µg/L	31520	ppb	17:46:44
1	Sr 421.552†	9063.0	8856.1	104.15	µg/L	104.15	ppb	17:46:44
1	Sc 361.383	1244383.7	1244383.7	103.99	%			17:48:05
1	Y 371.029	724223.8	724223.8	102.50	%			17:48:05
1	Ag 328.068†	661.0	-10.5	-0.8064	µg/L	-0.8064	ppb	17:48:07
1	As 188.979†	-7.8	-4.8	-10.391	µg/L	-10.391	ppb	17:48:27
1	B 249.677†	12299.9	11573.2	130.97	µg/L	130.97	ppb	17:48:07
1	Ba 233.527†	10394.0	10086.0	147.11	µg/L	147.11	ppb	17:48:07
1	Be 313.107†	-6232.3	796.3	0.3521	µg/L	0.3521	ppb	17:48:07
1	Cd 226.502†	-46.3	45.3	0.2931	µg/L	0.2931	ppb	17:48:27
1	Co 228.616†	-93.1	16.0	0.5400	µg/L	0.5400	ppb	17:48:27
1	Cr 267.716†	137.7	11.2	0.2032	µg/L	0.2032	ppb	17:48:27
1	Cu 324.752†	3480.3	-675.5	-4.2289	µg/L	-4.2289	ppb	17:48:07
1	Mn 257.610†	37223.7	35598.7	108.19	µg/L	108.19	ppb	17:48:07
1	Mo 202.031†	-26.5	-16.1	-1.6147	µg/L	-1.6147	ppb	17:48:27
1	Ni 231.604†	19.0	56.0	1.7070	µg/L	1.7070	ppb	17:48:27
1	P 214.914†	22.9	90.2	87.880	µg/L	87.880	ppb	17:48:27
1	Pb 220.353†	99.4	-12.9	-3.0232	µg/L	-3.0232	ppb	17:48:27
1	S 181.975 Axial†	69.7	42.3	142.25	µg/L	142.25	ppb	17:48:27
1	Sb 206.836†	7.6	0.7	0.5504	µg/L	0.5504	ppb	17:48:27
1	Se 196.026†	13.5	-3.9	-4.28	µg/L	-4.28	ppb	17:48:27
1	SiO2†	21847.9	19117.9	3608.3	µg/L	3608.3	ppb	17:48:07
1	Si 251.611†	58763.7	56156.3	1688.8	µg/L	1688.8	ppb	17:48:07
1	Sn 189.927†	-23.6	-26.7	-8.4235	µg/L	-8.4235	ppb	17:48:27
1	Ti 334.940†	568.4	-974.1	-0.5610	µg/L	-0.5610	ppb	17:48:07
1	Tl 190.801†	-21.8	-5.1	-7.6401	µg/L	-7.6401	ppb	17:48:27
1	U 367.007†	435.7	98.8	8.8999	µg/L	8.8999	ppb	17:48:07
1	V 292.402†	337.4	-21.2	0.3562	µg/L	0.3562	ppb	17:48:07
1	Zn 213.857†	685.2	134.3	1.2981	µg/L	1.2981	ppb	17:48:27
2	Sc RADIAL	22147.7	22147.7	103	%			17:47:06
2	Al 396.153Radial†	-93.3	5.7	22.576	µg/L	22.576	ppb	17:47:26
2	Ca 317.933Radial†	36707.2	35546.1	24074	µg/L	24074	ppb	17:47:06
2	Fe 238.204 Radial†	1050.9	989.0	3355.1	µg/L	3355.1	ppb	17:47:26
2	K 766.490 Radial†	2282.3	1534.3	1992.5	µg/L	1992.5	ppb	17:47:06
2	Mg 279.077 IEC†	1087.5	1051.9	7384.7	µg/L	7384.7	ppb	17:47:26
2	Na 589.592 Radial†	31618.9	30718.3	29575	µg/L	29575	ppb	17:47:06
2	Sr 421.552†	8580.8	8287.1	97.460	µg/L	97.460	ppb	17:47:06
2	Sc 361.383	1206321.6	1206321.6	100.81	%			17:48:29
2	Y 371.029	701620.0	701620.0	99.299	%			17:48:29
2	Ag 328.068†	659.6	8.1	-0.6246	µg/L	-0.6246	ppb	17:48:31
2	As 188.979†	-4.7	-2.0	-3.9303	µg/L	-3.9303	ppb	17:48:51
2	B 249.677†	12176.6	11824.0	134.25	µg/L	134.25	ppb	17:48:31
2	Ba 233.527†	10260.9	10269.3	149.78	µg/L	149.78	ppb	17:48:31
2	Be 313.107†	-6462.3	379.0	0.1676	µg/L	0.1676	ppb	17:48:31
2	Cd 226.502†	-62.5	27.9	0.0126	µg/L	0.0126	ppb	17:48:51
2	Co 228.616†	-97.2	9.2	0.3328	µg/L	0.3328	ppb	17:48:51
2	Cr 267.716†	120.5	-1.7	-0.0404	µg/L	-0.0404	ppb	17:48:51
2	Cu 324.752†	3444.1	-605.8	-3.7410	µg/L	-3.7410	ppb	17:48:31
2	Mn 257.610†	36685.1	36193.8	110.01	µg/L	110.01	ppb	17:48:31
2	Mo 202.031†	-27.9	-18.2	-1.8725	µg/L	-1.8725	ppb	17:48:51
2	Ni 231.604†	2.0	39.8	1.2063	µg/L	1.2063	ppb	17:48:51
2	P 214.914†	8.2	76.2	73.596	µg/L	73.596	ppb	17:48:51
2	Pb 220.353†	108.0	-1.3	-0.3932	µg/L	-0.3932	ppb	17:48:51

2	S 181.975 Axial†	69.2	44.0	148.22	µg/L	148.22	ppb	17:48:51
2	Sb 206.836†	9.9	3.3	2.1649	µg/L	2.1649	ppb	17:48:51
2	Se 196.026†	10.3	-6.6	-8.18	µg/L	-8.18	ppb	17:48:51
2	SiO2†	21531.3	19466.7	3674.2	µg/L	3674.2	ppb	17:48:31
2	Si 251.611†	57780.8	56964.3	1713.1	µg/L	1713.1	ppb	17:48:31
2	Sn 189.927†	-21.8	-25.5	-8.1484	µg/L	-8.1484	ppb	17:48:51
2	Ti 334.940†	574.7	-950.6	-0.6162	µg/L	-0.6162	ppb	17:48:31
2	Tl 190.801†	-9.0	6.9	9.0348	µg/L	9.0348	ppb	17:48:51
2	U 367.007†	419.8	96.2	8.4701	µg/L	8.4701	ppb	17:48:31
2	V 292.402†	303.1	-45.0	0.1773	µg/L	0.1773	ppb	17:48:31
2	Zn 213.857†	696.8	166.6	1.7323	µg/L	1.7323	ppb	17:48:51
3	Sc RADIAL	21470.4	21470.4	99.9	%			17:47:28
3	Al 396.153Radial†	-93.4	2.7	18.257	µg/L	18.257	ppb	17:47:48
3	Ca 317.933Radial†	38681.8	38645.8	26173	µg/L	26173	ppb	17:47:28
3	Fe 238.204 Radial†	1043.7	1014.0	3439.7	µg/L	3439.7	ppb	17:47:48
3	K 766.490 Radial†	2339.8	1661.7	2158.0	µg/L	2158.0	ppb	17:47:28
3	Mg 279.077 IEC†	1078.8	1076.5	7557.5	µg/L	7557.5	ppb	17:47:48
3	Na 589.592 Radial†	33094.1	33162.4	31929	µg/L	31929	ppb	17:47:28
3	Sr 421.552†	8998.2	8967.4	105.46	µg/L	105.46	ppb	17:47:28
3	Sc 361.383	1195294.0	1195294.0	99.884	%			17:48:53
3	Y 371.029	694685.4	694685.4	98.318	%			17:48:53
3	Ag 328.068†	766.6	121.3	0.1378	µg/L	0.1378	ppb	17:48:55
3	As 188.979†	0.6	3.3	8.0691	µg/L	8.0691	ppb	17:49:16
3	B 249.677†	12577.7	12337.0	140.27	µg/L	140.27	ppb	17:48:55
3	Ba 233.527†	10423.1	10525.6	153.52	µg/L	153.52	ppb	17:48:55
3	Be 313.107†	-6265.7	516.7	0.2285	µg/L	0.2285	ppb	17:48:55
3	Cd 226.502†	-55.3	34.5	0.1078	µg/L	0.1078	ppb	17:49:16
3	Co 228.616†	-107.6	-2.1	-0.0100	µg/L	-0.0100	ppb	17:49:16
3	Cr 267.716†	141.0	19.9	0.3804	µg/L	0.3804	ppb	17:49:16
3	Cu 324.752†	3620.7	-397.5	-2.2714	µg/L	-2.2714	ppb	17:48:55
3	Mn 257.610†	37281.0	37126.1	112.84	µg/L	112.84	ppb	17:48:55
3	Mo 202.031†	-18.5	-9.1	-0.7682	µg/L	-0.7682	ppb	17:49:16
3	Ni 231.604†	5.5	43.3	1.3147	µg/L	1.3147	ppb	17:49:16
3	P 214.914†	16.0	84.1	81.559	µg/L	81.559	ppb	17:49:16
3	Pb 220.353†	123.9	15.6	3.4451	µg/L	3.4451	ppb	17:49:16
3	S 181.975 Axial†	74.7	50.0	168.89	µg/L	168.89	ppb	17:49:16
3	Sb 206.836†	2.0	-4.5	-2.8036	µg/L	-2.8036	ppb	17:49:16
3	Se 196.026†	16.6	-0.2	0.932	µg/L	0.932	ppb	17:49:16
3	SiO2†	21856.4	19989.3	3772.8	µg/L	3772.8	ppb	17:48:55
3	Si 251.611†	58927.4	58641.0	1763.5	µg/L	1763.5	ppb	17:48:55
3	Sn 189.927†	-25.5	-29.5	-9.5399	µg/L	-9.5399	ppb	17:49:16
3	Ti 334.940†	510.6	-1009.5	-0.6107	µg/L	-0.6107	ppb	17:48:55
3	Tl 190.801†	-14.1	1.7	1.8294	µg/L	1.8294	ppb	17:49:16
3	U 367.007†	359.3	39.6	-10.051	µg/L	-10.051	ppb	17:48:55
3	V 292.402†	319.9	-25.4	0.3368	µg/L	0.3368	ppb	17:48:55
3	Zn 213.857†	708.5	184.7	1.9583	µg/L	1.9583	ppb	17:49:16

Mean Data: 335304017|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1215333.1	101.56	%	2.152				2.12%
Sc RADIAL	21837.9	102	%	1.6				1.57%
Y 371.029	706843.1	100.04	%	2.186				2.19%
Ag 328.068†	39.6	-0.4311	µg/L	0.50098	-0.4311	ppb	0.50098	116.22%
Al 396.153Radial†	5.4	22.672	µg/L	4.4633	22.672	ppb	4.4633	19.69%
As 188.979†	-1.2	-2.0839	µg/L	9.36731	-2.0839	ppb	9.36731	449.51%
B 249.677†	11911.4	135.16	µg/L	4.714	135.16	ppb	4.714	3.49%
Ba 233.527†	10293.6	150.14	µg/L	3.221	150.14	ppb	3.221	2.15%
Be 313.107†	564.0	0.2494	µg/L	0.09402	0.2494	ppb	0.09402	37.70%
Ca 317.933Radial†	37522.4	25412	µg/L	1162.8	25412	ppb	1162.8	4.58%
Cd 226.502†	35.9	0.1378	µg/L	0.14265	0.1378	ppb	0.14265	103.50%
Co 228.616†	7.7	0.2876	µg/L	0.27776	0.2876	ppb	0.27776	96.58%
Cr 267.716†	9.8	0.1811	µg/L	0.21127	0.1811	ppb	0.21127	116.68%
Cu 324.752†	-559.6	-3.4138	µg/L	1.01896	-3.4138	ppb	1.01896	29.85%
Fe 238.204 Radial†	998.4	3386.8	µg/L	46.09	3386.8	ppb	46.09	1.36%
K 766.490 Radial†	1640.1	2130.2	µg/L	126.03	2130.2	ppb	126.03	5.92%
Mg 279.077 IEC†	1063.6	7467.0	µg/L	86.70	7467.0	ppb	86.70	1.16%
Mn 257.610†	36306.2	110.35	µg/L	2.343	110.35	ppb	2.343	2.12%
Mo 202.031†	-14.5	-1.4185	µg/L	0.57772	-1.4185	ppb	0.57772	40.73%
Na 589.592 Radial†	32206.3	31008	µg/L	1257.4	31008	ppb	1257.4	4.06%

Ni 231.604†	46.4	1.4093	µg/L	0.26341	1.4093	ppb	0.26341	18.69%
P 214.914†	83.5	81.012	µg/L	7.1576	81.012	ppb	7.1576	8.84%
Pb 220.353†	0.5	0.0096	µg/L	3.25294	0.0096	ppb	3.25294	>999.9%
S 181.975 Axial†	45.4	153.12	µg/L	13.983	153.12	ppb	13.983	9.13%
Sb 206.836†	-0.2	-0.0294	µg/L	2.53452	-0.0294	ppb	2.53452	>999.9%
Se 196.026†	-3.6	-3.84	µg/L	4.572	-3.84	ppb	4.572	118.95%
SiO2†	19524.6	3685.1	µg/L	82.78	3685.1	ppb	82.78	2.25%
Si 251.611†	57253.9	1721.8	µg/L	38.10	1721.8	ppb	38.10	2.21%
Sn 189.927†	-27.2	-8.7040	µg/L	0.73691	-8.7040	ppb	0.73691	8.47%
Sr 421.552†	8703.5	102.36	µg/L	4.291	102.36	ppb	4.291	4.19%
Ti 334.940†	-978.1	-0.5960	µg/L	0.03040	-0.5960	ppb	0.03040	5.10%
Tl 190.801†	1.2	1.0747	µg/L	8.36306	1.0747	ppb	8.36306	778.17%
U 367.007†	78.2	2.4396	µg/L	10.81952	2.4396	ppb	10.81952	443.50%
V 292.402†	-30.5	0.2901	µg/L	0.09817	0.2901	ppb	0.09817	33.84%
Zn 213.857†	161.9	1.6629	µg/L	0.33553	1.6629	ppb	0.33553	20.18%

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Sequence No.: 16 **Autosampler Location: 312**
Sample ID: 335304019|1339675|10 **Date Collected: 11/7/2013 17:52:34**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304019|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21488.4	21488.4	100	%			17:53:24
1	Al 396.153Radial†	89.9	186.2	349.27	µg/L	349.27	ppb	17:53:24
1	Ca 317.933Radial†	46786.6	46717.8	31640	µg/L	31640	ppb	17:53:04
1	Fe 238.204 Radial†	2216.8	2186.2	7416.2	µg/L	7416.2	ppb	17:53:24
1	K 766.490 Radial†	1280.7	600.7	776.82	µg/L	776.82	ppb	17:53:24
1	Mg 279.077 IEC†	1180.6	1177.3	8265.8	µg/L	8265.8	ppb	17:53:24
1	Na 589.592 Radial†	22857.0	22898.0	22046	µg/L	22046	ppb	17:53:04
1	Sr 421.552†	6283.8	6245.6	73.346	µg/L	73.346	ppb	17:53:24
1	Sc 361.383	1205233.7	1205233.7	100.71	%			17:54:26
1	Y 371.029	705761.3	705761.3	99.885	%			17:54:26
1	Ag 328.068†	626.7	-23.9	-1.0809	µg/L	-1.0809	ppb	17:54:28
1	As 188.979†	-4.4	-1.6	-2.4334	µg/L	-2.4334	ppb	17:54:48
1	B 249.677†	4123.8	3839.3	19.706	µg/L	19.706	ppb	17:54:28
1	Ba 233.527†	12124.3	12128.7	176.87	µg/L	176.87	ppb	17:54:28
1	Be 313.107†	-5990.9	841.4	0.3720	µg/L	0.3720	ppb	17:54:28
1	Cd 226.502†	-46.2	44.0	-0.2562	µg/L	-0.2562	ppb	17:54:48
1	Co 228.616†	-51.2	54.7	1.6989	µg/L	1.6989	ppb	17:54:48
1	Cr 267.716†	151.7	29.4	0.6612	µg/L	0.6612	ppb	17:54:48
1	Cu 324.752†	3345.1	-701.1	-3.8355	µg/L	-3.8355	ppb	17:54:28
1	Mn 257.610†	62000.7	61362.6	186.70	µg/L	186.70	ppb	17:54:28
1	Mo 202.031†	-22.0	-12.5	-1.0809	µg/L	-1.0809	ppb	17:54:48
1	Ni 231.604†	104.2	141.2	4.3091	µg/L	4.3091	ppb	17:54:48
1	P 214.914†	150.5	217.6	212.94	µg/L	212.94	ppb	17:54:48
1	Pb 220.353†	108.8	-0.4	-0.2623	µg/L	-0.2623	ppb	17:54:48
1	S 181.975 Axial†	463.1	435.1	1493.2	µg/L	1493.2	ppb	17:54:48
1	Sb 206.836†	4.3	-2.2	-1.2290	µg/L	-1.2290	ppb	17:54:48
1	Se 196.026†	14.1	-2.8	-1.36	µg/L	-1.36	ppb	17:54:48
1	SiO2†	26653.9	24572.3	4637.8	µg/L	4637.8	ppb	17:54:28
1	Si 251.611†	72893.8	72021.8	2166.2	µg/L	2166.2	ppb	17:54:28
1	Sn 189.927†	-23.8	-27.5	-8.2489	µg/L	-8.2489	ppb	17:54:48
1	Ti 334.940†	1500.2	-31.1	1.5550	µg/L	1.5550	ppb	17:54:28
1	Tl 190.801†	-14.7	1.3	0.8982	µg/L	0.8982	ppb	17:54:48
1	U 367.007†	431.2	107.9	-9.8704	µg/L	-9.8704	ppb	17:54:28
1	V 292.402†	439.1	90.3	1.7928	µg/L	1.7928	ppb	17:54:28
1	Zn 213.857†	1317.8	783.8	9.4840	µg/L	9.4840	ppb	17:54:48
2	Sc RADIAL	20984.5	20984.5	97.7	%			17:53:46
2	Al 396.153Radial†	94.1	192.6	361.09	µg/L	361.09	ppb	17:53:46
2	Ca 317.933Radial†	46656.1	47707.5	32311	µg/L	32311	ppb	17:53:26
2	Fe 238.204 Radial†	2198.2	2220.4	7532.1	µg/L	7532.1	ppb	17:53:46
2	K 766.490 Radial†	1297.7	648.8	839.54	µg/L	839.54	ppb	17:53:46
2	Mg 279.077 IEC†	1153.2	1177.7	8268.3	µg/L	8268.3	ppb	17:53:46
2	Na 589.592 Radial†	22687.3	23273.0	22407	µg/L	22407	ppb	17:53:26
2	Sr 421.552†	6226.5	6337.8	74.427	µg/L	74.427	ppb	17:53:46
2	Sc 361.383	1183917.1	1183917.1	98.934	%			17:54:50
2	Y 371.029	692668.5	692668.5	98.032	%			17:54:50
2	Ag 328.068†	806.6	169.1	0.2467	µg/L	0.2467	ppb	17:54:52
2	As 188.979†	-2.3	0.4	2.0903	µg/L	2.0903	ppb	17:55:12
2	B 249.677†	4123.8	3913.0	20.164	µg/L	20.164	ppb	17:54:52
2	Ba 233.527†	12095.6	12316.4	179.60	µg/L	179.60	ppb	17:54:52
2	Be 313.107†	-5771.4	956.1	0.4228	µg/L	0.4228	ppb	17:54:52
2	Cd 226.502†	-30.9	58.6	-0.0365	µg/L	-0.0365	ppb	17:55:12
2	Co 228.616†	-57.4	47.6	1.4799	µg/L	1.4799	ppb	17:55:12
2	Cr 267.716†	149.2	29.5	0.6547	µg/L	0.6547	ppb	17:55:12
2	Cu 324.752†	3371.1	-614.9	-3.2039	µg/L	-3.2039	ppb	17:54:52
2	Mn 257.610†	61295.9	61758.6	187.91	µg/L	187.91	ppb	17:54:52
2	Mo 202.031†	-25.5	-16.4	-1.5511	µg/L	-1.5511	ppb	17:55:12
2	Ni 231.604†	87.1	125.8	3.8343	µg/L	3.8343	ppb	17:55:12
2	P 214.914†	147.1	216.8	211.98	µg/L	211.98	ppb	17:55:12
2	Pb 220.353†	125.7	18.6	4.0215	µg/L	4.0215	ppb	17:55:12

2	S 181.975 Axial†	464.8	445.0	1527.3	µg/L	1527.3	ppb	17:55:12
2	Sb 206.836†	6.7	0.2	0.3546	µg/L	0.3546	ppb	17:55:12
2	Se 196.026†	9.7	-7.0	-7.26	µg/L	-7.26	ppb	17:55:12
2	SiO2†	26280.3	24671.1	4656.4	µg/L	4656.4	ppb	17:54:52
2	Si 251.611†	72092.4	72514.9	2181.1	µg/L	2181.1	ppb	17:54:52
2	Sn 189.927†	-26.4	-30.6	-9.4323	µg/L	-9.4323	ppb	17:55:12
2	Ti 334.940†	1505.6	1.1	1.6429	µg/L	1.6429	ppb	17:54:52
2	Tl 190.801†	-11.1	4.6	5.5732	µg/L	5.5732	ppb	17:55:12
2	U 367.007†	484.9	169.9	8.8159	µg/L	8.8159	ppb	17:54:52
2	V 292.402†	361.9	20.2	1.3055	µg/L	1.3055	ppb	17:54:52
2	Zn 213.857†	1324.1	813.7	9.8711	µg/L	9.8711	ppb	17:55:12
3	Sc RADIAL	20997.4	20997.4	97.7	%			17:54:08
3	Al 396.153Radial†	85.1	183.3	344.22	µg/L	344.22	ppb	17:54:08
3	Ca 317.933Radial†	45682.1	46681.6	31616	µg/L	31616	ppb	17:53:48
3	Fe 238.204 Radial†	2206.2	2227.1	7555.0	µg/L	7555.0	ppb	17:54:08
3	K 766.490 Radial†	1241.9	590.9	764.13	µg/L	764.13	ppb	17:54:08
3	Mg 279.077 IEC†	1174.7	1198.9	8417.6	µg/L	8417.6	ppb	17:54:08
3	Na 589.592 Radial†	22187.9	22747.7	21901	µg/L	21901	ppb	17:53:48
3	Sr 421.552†	6288.7	6397.5	75.137	µg/L	75.137	ppb	17:54:08
3	Sc 361.383	1183970.7	1183970.7	98.938	%			17:55:14
3	Y 371.029	692886.8	692886.8	98.063	%			17:55:14
3	Ag 328.068†	703.7	65.1	-0.4596	µg/L	-0.4596	ppb	17:55:16
3	As 188.979†	-2.4	0.3	2.0240	µg/L	2.0240	ppb	17:55:36
3	B 249.677†	4088.9	3877.5	19.668	µg/L	19.668	ppb	17:55:16
3	Ba 233.527†	11867.6	12085.4	176.23	µg/L	176.23	ppb	17:55:16
3	Be 313.107†	-5918.8	807.4	0.3570	µg/L	0.3570	ppb	17:55:16
3	Cd 226.502†	-49.2	40.1	-0.3379	µg/L	-0.3379	ppb	17:55:36
3	Co 228.616†	-33.3	71.9	2.2219	µg/L	2.2219	ppb	17:55:36
3	Cr 267.716†	150.2	30.6	0.6814	µg/L	0.6814	ppb	17:55:36
3	Cu 324.752†	3490.9	-494.0	-2.3537	µg/L	-2.3537	ppb	17:55:16
3	Mn 257.610†	60366.0	60815.9	185.04	µg/L	185.04	ppb	17:55:16
3	Mo 202.031†	-25.7	-16.6	-1.5689	µg/L	-1.5689	ppb	17:55:36
3	Ni 231.604†	91.1	129.8	3.9561	µg/L	3.9561	ppb	17:55:36
3	P 214.914†	154.1	223.9	219.17	µg/L	219.17	ppb	17:55:36
3	Pb 220.353†	114.2	7.0	1.3977	µg/L	1.3977	ppb	17:55:36
3	S 181.975 Axial†	471.3	451.6	1550.0	µg/L	1550.0	ppb	17:55:36
3	Sb 206.836†	6.9	0.5	0.4989	µg/L	0.4989	ppb	17:55:36
3	Se 196.026†	11.5	-5.2	-4.67	µg/L	-4.67	ppb	17:55:36
3	SiO2†	25894.7	24280.2	4582.7	µg/L	4582.7	ppb	17:55:16
3	Si 251.611†	70901.9	71308.3	2144.8	µg/L	2144.8	ppb	17:55:16
3	Sn 189.927†	-29.1	-33.3	-10.593	µg/L	-10.593	ppb	17:55:36
3	Ti 334.940†	1538.6	34.5	1.6750	µg/L	1.6750	ppb	17:55:16
3	Tl 190.801†	-17.8	-2.2	-3.8547	µg/L	-3.8547	ppb	17:55:36
3	U 367.007†	452.4	137.1	-1.4515	µg/L	-1.4515	ppb	17:55:16
3	V 292.402†	454.1	113.3	1.9810	µg/L	1.9810	ppb	17:55:16
3	Zn 213.857†	1328.2	817.8	9.9192	µg/L	9.9192	ppb	17:55:36

Mean Data: 335304019|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1191040.5	99.529	%	1.0272				1.03%
Sc RADIAL	21156.7	98.5	%	1.34				1.36%
Y 371.029	697105.5	98.660	%	1.0610				1.08%
Ag 328.068†	70.1	-0.4313	µg/L	0.66425	-0.4313	ppb	0.66425	154.03%
Al 396.153Radial†	187.4	351.52	µg/L	8.660	351.52	ppb	8.660	2.46%
As 188.979†	-0.3	0.5603	µg/L	2.59284	0.5603	ppb	2.59284	462.74%
B 249.677†	3876.6	19.846	µg/L	0.2759	19.846	ppb	0.2759	1.39%
Ba 233.527†	12176.8	177.57	µg/L	1.791	177.57	ppb	1.791	1.01%
Be 313.107†	868.3	0.3839	µg/L	0.03447	0.3839	ppb	0.03447	8.98%
Ca 317.933Radial†	47035.6	31856	µg/L	394.3	31856	ppb	394.3	1.24%
Cd 226.502†	47.6	-0.2102	µg/L	0.15586	-0.2102	ppb	0.15586	74.16%
Co 228.616†	58.1	1.8002	µg/L	0.38124	1.8002	ppb	0.38124	21.18%
Cr 267.716†	29.8	0.6658	µg/L	0.01389	0.6658	ppb	0.01389	2.09%
Cu 324.752†	-603.3	-3.1310	µg/L	0.74362	-3.1310	ppb	0.74362	23.75%
Fe 238.204 Radial†	2211.2	7501.1	µg/L	74.41	7501.1	ppb	74.41	0.99%
K 766.490 Radial†	613.5	793.50	µg/L	40.378	793.50	ppb	40.378	5.09%
Mg 279.077 IEC†	1184.6	8317.2	µg/L	86.92	8317.2	ppb	86.92	1.05%
Mn 257.610†	61312.3	186.55	µg/L	1.444	186.55	ppb	1.444	0.77%
Mo 202.031†	-15.1	-1.4003	µg/L	0.27674	-1.4003	ppb	0.27674	19.76%
Na 589.592 Radial†	22972.9	22118	µg/L	260.5	22118	ppb	260.5	1.18%

Ni 231.604†	132.3	4.0332	µg/L	0.24665	4.0332	ppb	0.24665	6.12%
P 214.914†	219.4	214.69	µg/L	3.901	214.69	ppb	3.901	1.82%
Pb 220.353†	8.4	1.7190	µg/L	2.15987	1.7190	ppb	2.15987	125.65%
S 181.975 Axial†	443.9	1523.5	µg/L	28.59	1523.5	ppb	28.59	1.88%
Sb 206.836†	-0.5	-0.1251	µg/L	0.95870	-0.1251	ppb	0.95870	766.07%
Se 196.026†	-5.0	-4.43	µg/L	2.958	-4.43	ppb	2.958	66.76%
SiO2†	24507.9	4625.6	µg/L	38.37	4625.6	ppb	38.37	0.83%
Si 251.611†	71948.3	2164.1	µg/L	18.24	2164.1	ppb	18.24	0.84%
Sn 189.927†	-30.5	-9.4247	µg/L	1.17196	-9.4247	ppb	1.17196	12.44%
Sr 421.552†	6327.0	74.303	µg/L	0.9018	74.303	ppb	0.9018	1.21%
Ti 334.940†	1.5	1.6243	µg/L	0.06209	1.6243	ppb	0.06209	3.82%
Tl 190.801†	1.2	0.8722	µg/L	4.71403	0.8722	ppb	4.71403	540.45%
U 367.007†	138.3	-0.8353	µg/L	9.35836	-0.8353	ppb	9.35836	>999.9%
V 292.402†	74.6	1.6931	µg/L	0.34865	1.6931	ppb	0.34865	20.59%
Zn 213.857†	805.1	9.7581	µg/L	0.23858	9.7581	ppb	0.23858	2.44%

Sequence No.: 18 **Autosampler Location: 314**
Sample ID: 335304021|1339675|10 **Date Collected: 11/7/2013 17:58:55**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304021|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21477.6	21477.6	100.0	%			17:59:25
1	Al 396.153Radial†	-89.4	6.8	27.276	µg/L	27.276	ppb	17:59:45
1	Ca 317.933Radial†	44089.3	44042.6	29828	µg/L	29828	ppb	17:59:25
1	Fe 238.204 Radial†	704.2	674.0	2286.5	µg/L	2286.5	ppb	17:59:45
1	K 766.490 Radial†	2113.7	1434.6	1861.5	µg/L	1861.5	ppb	17:59:25
1	Mg 279.077 IEC†	1252.1	1249.5	8771.8	µg/L	8771.8	ppb	17:59:45
1	Na 589.592 Radial†	31648.1	31704.6	30525	µg/L	30525	ppb	17:59:25
1	Sr 421.552†	9429.5	9395.8	110.48	µg/L	110.48	ppb	17:59:25
1	Sc 361.383	1216635.7	1216635.7	101.67	%			18:00:46
1	Y 371.029	707486.3	707486.3	100.13	%			18:00:46
1	Ag 328.068†	890.9	230.1	0.8147	µg/L	0.8147	ppb	18:00:48
1	As 188.979†	-4.5	-1.8	-3.6216	µg/L	-3.6216	ppb	18:01:08
1	B 249.677†	8951.9	8549.9	97.425	µg/L	97.425	ppb	18:00:48
1	Ba 233.527†	8738.7	8685.8	126.69	µg/L	126.69	ppb	18:00:48
1	Be 313.107†	-6500.5	395.8	0.1750	µg/L	0.1750	ppb	18:00:48
1	Cd 226.502†	-84.8	6.4	-0.1943	µg/L	-0.1943	ppb	18:01:08
1	Co 228.616†	-103.4	3.9	0.1670	µg/L	0.1670	ppb	18:01:08
1	Cr 267.716†	138.0	14.5	0.2389	µg/L	0.2389	ppb	18:01:08
1	Cu 324.752†	3714.7	-368.6	-2.2197	µg/L	-2.2197	ppb	18:00:48
1	Mn 257.610†	17455.6	16971.2	51.400	µg/L	51.400	ppb	18:00:48
1	Mo 202.031†	-22.8	-13.0	-1.2204	µg/L	-1.2204	ppb	18:01:08
1	Ni 231.604†	6.8	44.5	1.3575	µg/L	1.3575	ppb	18:01:08
1	P 214.914†	7.3	75.3	74.073	µg/L	74.073	ppb	18:01:08
1	Pb 220.353†	109.1	-1.1	-0.3159	µg/L	-0.3159	ppb	18:01:08
1	S 181.975 Axial†	195.6	167.6	573.39	µg/L	573.39	ppb	18:01:08
1	Sb 206.836†	6.5	-0.1	-0.0254	µg/L	-0.0254	ppb	18:01:08
1	Se 196.026†	15.4	-1.7	-1.61	µg/L	-1.61	ppb	18:01:08
1	SiO2†	22212.6	19955.8	3766.5	µg/L	3766.5	ppb	18:00:48
1	Si 251.611†	59766.0	58431.0	1757.0	µg/L	1757.0	ppb	18:00:48
1	Sn 189.927†	-21.8	-25.4	-7.5580	µg/L	-7.5580	ppb	18:01:08
1	Ti 334.940†	551.3	-978.4	-0.3675	µg/L	-0.3675	ppb	18:00:48
1	Tl 190.801†	-16.0	0.1	-0.3506	µg/L	-0.3506	ppb	18:01:08
1	U 367.007†	391.8	65.2	3.1850	µg/L	3.1850	ppb	18:00:48
1	V 292.402†	341.6	-9.7	0.2738	µg/L	0.2738	ppb	18:00:48
1	Zn 213.857†	710.8	174.5	1.9143	µg/L	1.9143	ppb	18:01:08
2	Sc RADIAL	21930.4	21930.4	102	%			17:59:47
2	Al 396.153Radial†	-85.3	12.7	37.702	µg/L	37.702	ppb	18:00:07
2	Ca 317.933Radial†	44862.5	43889.5	29725	µg/L	29725	ppb	17:59:47
2	Fe 238.204 Radial†	683.4	639.0	2167.7	µg/L	2167.7	ppb	18:00:07
2	K 766.490 Radial†	2060.5	1338.9	1736.6	µg/L	1736.6	ppb	17:59:47
2	Mg 279.077 IEC†	1223.8	1195.9	8395.4	µg/L	8395.4	ppb	18:00:07
2	Na 589.592 Radial†	32063.2	31457.5	30287	µg/L	30287	ppb	17:59:47
2	Sr 421.552†	9562.0	9330.9	109.72	µg/L	109.72	ppb	17:59:47
2	Sc 361.383	1196391.0	1196391.0	99.976	%			18:01:10
2	Y 371.029	695429.4	695429.4	98.423	%			18:01:10
2	Ag 328.068†	655.8	9.8	-0.7600	µg/L	-0.7600	ppb	18:01:12
2	As 188.979†	-6.4	-3.7	-8.0642	µg/L	-8.0642	ppb	18:01:32
2	B 249.677†	8937.0	8683.9	99.597	µg/L	99.597	ppb	18:01:12
2	Ba 233.527†	8662.1	8754.6	127.70	µg/L	127.70	ppb	18:01:12
2	Be 313.107†	-6327.0	461.2	0.2039	µg/L	0.2039	ppb	18:01:12
2	Cd 226.502†	-99.3	-9.5	-0.4356	µg/L	-0.4356	ppb	18:01:32
2	Co 228.616†	-109.6	-4.0	-0.0737	µg/L	-0.0737	ppb	18:01:32
2	Cr 267.716†	146.7	25.5	0.4316	µg/L	0.4316	ppb	18:01:32
2	Cu 324.752†	3559.0	-462.6	-2.8882	µg/L	-2.8882	ppb	18:01:12
2	Mn 257.610†	17265.2	17071.3	51.716	µg/L	51.716	ppb	18:01:12
2	Mo 202.031†	-28.7	-19.3	-1.9857	µg/L	-1.9857	ppb	18:01:32
2	Ni 231.604†	39.0	76.8	2.3529	µg/L	2.3529	ppb	18:01:32
2	P 214.914†	7.0	75.1	74.032	µg/L	74.032	ppb	18:01:32
2	Pb 220.353†	116.6	8.2	1.7814	µg/L	1.7814	ppb	18:01:32

2	S 181.975 Axial†	187.0	162.3	555.01	µg/L	555.01	ppb	18:01:32
2	Sb 206.836†	6.3	-0.3	-0.1366	µg/L	-0.1366	ppb	18:01:32
2	Se 196.026†	13.8	-3.0	-3.50	µg/L	-3.50	ppb	18:01:32
2	SiO2†	21947.8	20060.6	3786.3	µg/L	3786.3	ppb	18:01:12
2	Si 251.611†	59319.5	58979.2	1773.5	µg/L	1773.5	ppb	18:01:12
2	Sn 189.927†	-29.3	-33.2	-10.745	µg/L	-10.745	ppb	18:01:32
2	Ti 334.940†	713.1	-807.4	-0.0523	µg/L	-0.0523	ppb	18:01:12
2	Tl 190.801†	-14.9	0.9	0.8508	µg/L	0.8508	ppb	18:01:32
2	U 367.007†	458.7	138.6	26.777	µg/L	26.777	ppb	18:01:12
2	V 292.402†	362.2	16.7	0.4517	µg/L	0.4517	ppb	18:01:12
2	Zn 213.857†	717.0	192.5	2.1673	µg/L	2.1673	ppb	18:01:32
3	Sc RADIAL	21395.7	21395.7	99.6	%			18:00:09
3	Al 396.153Radial†	-88.0	7.9	29.091	µg/L	29.091	ppb	18:00:29
3	Ca 317.933Radial†	43856.5	43977.9	29784	µg/L	29784	ppb	18:00:09
3	Fe 238.204 Radial†	702.3	674.7	2288.9	µg/L	2288.9	ppb	18:00:29
3	K 766.490 Radial†	2131.0	1460.2	1894.9	µg/L	1894.9	ppb	18:00:09
3	Mg 279.077 IEC†	1243.3	1245.4	8743.4	µg/L	8743.4	ppb	18:00:29
3	Na 589.592 Radial†	31327.5	31503.9	30332	µg/L	30332	ppb	18:00:09
3	Sr 421.552†	9426.1	9428.6	110.87	µg/L	110.87	ppb	18:00:09
3	Sc 361.383	1219658.4	1219658.4	101.92	%			18:01:34
3	Y 371.029	709164.4	709164.4	100.37	%			18:01:34
3	Ag 328.068†	686.0	26.9	-0.6249	µg/L	-0.6249	ppb	18:01:37
3	As 188.979†	-6.1	-3.3	-7.0558	µg/L	-7.0558	ppb	18:01:57
3	B 249.677†	8598.3	8181.0	92.796	µg/L	92.796	ppb	18:01:37
3	Ba 233.527†	8436.2	8367.6	122.05	µg/L	122.05	ppb	18:01:37
3	Be 313.107†	-6241.1	666.2	0.2946	µg/L	0.2946	ppb	18:01:37
3	Cd 226.502†	-73.3	18.0	-0.0084	µg/L	-0.0084	ppb	18:01:57
3	Co 228.616†	-91.9	15.4	0.5163	µg/L	0.5163	ppb	18:01:57
3	Cr 267.716†	116.1	-7.3	-0.1761	µg/L	-0.1761	ppb	18:01:57
3	Cu 324.752†	3519.7	-569.0	-3.6271	µg/L	-3.6271	ppb	18:01:37
3	Mn 257.610†	16896.6	16380.2	49.602	µg/L	49.602	ppb	18:01:37
3	Mo 202.031†	-20.1	-10.3	-0.8922	µg/L	-0.8922	ppb	18:01:57
3	Ni 231.604†	3.0	40.7	1.2416	µg/L	1.2416	ppb	18:01:57
3	P 214.914†	0.7	68.8	67.396	µg/L	67.396	ppb	18:01:57
3	Pb 220.353†	94.7	-15.5	-3.6018	µg/L	-3.6018	ppb	18:01:57
3	S 181.975 Axial†	191.9	163.5	559.18	µg/L	559.18	ppb	18:01:57
3	Sb 206.836†	2.1	-4.5	-2.8031	µg/L	-2.8031	ppb	18:01:57
3	Se 196.026†	18.1	0.9	2.10	µg/L	2.10	ppb	18:01:57
3	SiO2†	21595.5	19296.2	3642.0	µg/L	3642.0	ppb	18:01:37
3	Si 251.611†	57997.7	56550.3	1700.5	µg/L	1700.5	ppb	18:01:37
3	Sn 189.927†	-26.9	-30.4	-9.5794	µg/L	-9.5794	ppb	18:01:57
3	Ti 334.940†	738.4	-796.2	-0.0197	µg/L	-0.0197	ppb	18:01:37
3	Tl 190.801†	-18.7	-2.5	-3.9330	µg/L	-3.9330	ppb	18:01:57
3	U 367.007†	407.8	79.9	7.7992	µg/L	7.7992	ppb	18:01:37
3	V 292.402†	353.2	0.9	0.3564	µg/L	0.3564	ppb	18:01:37
3	Zn 213.857†	722.8	184.5	2.0506	µg/L	2.0506	ppb	18:01:57

Mean Data: 335304021|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1210895.0	101.19	%	1.057				1.04%
Sc RADIAL	21601.2	101	%	1.3				1.33%
Y 371.029	704026.7	99.640	%	1.0604				1.06%
Ag 328.068†	89.0	-0.1901	µg/L	0.87276	-0.1901	ppb	0.87276	459.13%
Al 396.153Radial†	9.1	31.356	µg/L	5.5703	31.356	ppb	5.5703	17.76%
As 188.979†	-2.9	-6.2472	µg/L	2.32905	-6.2472	ppb	2.32905	37.28%
B 249.677†	8471.6	96.606	µg/L	3.4734	96.606	ppb	3.4734	3.60%
Ba 233.527†	8602.7	125.48	µg/L	3.012	125.48	ppb	3.012	2.40%
Be 313.107†	507.7	0.2245	µg/L	0.06238	0.2245	ppb	0.06238	27.79%
Ca 317.933Radial†	43970.0	29779	µg/L	52.0	29779	ppb	52.0	0.17%
Cd 226.502†	5.0	-0.2127	µg/L	0.21421	-0.2127	ppb	0.21421	100.69%
Co 228.616†	5.1	0.2032	µg/L	0.29666	0.2032	ppb	0.29666	146.00%
Cr 267.716†	10.9	0.1648	µg/L	0.31053	0.1648	ppb	0.31053	188.42%
Cu 324.752†	-466.7	-2.9117	µg/L	0.70400	-2.9117	ppb	0.70400	24.18%
Fe 238.204 Radial†	662.6	2247.7	µg/L	69.26	2247.7	ppb	69.26	3.08%
K 766.490 Radial†	1411.2	1831.0	µg/L	83.44	1831.0	ppb	83.44	4.56%
Mg 279.077 IEC†	1230.3	8636.9	µg/L	209.60	8636.9	ppb	209.60	2.43%
Mn 257.610†	16807.6	50.906	µg/L	1.1407	50.906	ppb	1.1407	2.24%
Mo 202.031†	-14.2	-1.3661	µg/L	0.56111	-1.3661	ppb	0.56111	41.07%
Na 589.592 Radial†	31555.3	30381	µg/L	126.4	30381	ppb	126.4	0.42%

Ni 231.604†	54.0	1.6506	µg/L	0.61089	1.6506	ppb	0.61089	37.01%
P 214.914†	73.1	71.833	µg/L	3.8431	71.833	ppb	3.8431	5.35%
Pb 220.353†	-2.8	-0.7121	µg/L	2.71340	-0.7121	ppb	2.71340	381.06%
S 181.975 Axial†	164.5	562.53	µg/L	9.635	562.53	ppb	9.635	1.71%
Sb 206.836†	-1.6	-0.9883	µg/L	1.57258	-0.9883	ppb	1.57258	159.11%
Se 196.026†	-1.3	-1.00	µg/L	2.853	-1.00	ppb	2.853	283.86%
SiO2†	19770.9	3731.6	µg/L	78.22	3731.6	ppb	78.22	2.10%
Si 251.611†	57986.8	1743.7	µg/L	38.30	1743.7	ppb	38.30	2.20%
Sn 189.927†	-29.6	-9.2940	µg/L	1.61236	-9.2940	ppb	1.61236	17.35%
Sr 421.552†	9385.1	110.35	µg/L	0.585	110.35	ppb	0.585	0.53%
Ti 334.940†	-860.7	-0.1465	µg/L	0.19207	-0.1465	ppb	0.19207	131.08%
Tl 190.801†	-0.5	-1.1443	µg/L	2.48871	-1.1443	ppb	2.48871	217.49%
U 367.007†	94.6	12.587	µg/L	12.5037	12.587	ppb	12.5037	99.34%
V 292.402†	2.6	0.3606	µg/L	0.08903	0.3606	ppb	0.08903	24.69%
Zn 213.857†	183.8	2.0440	µg/L	0.12665	2.0440	ppb	0.12665	6.20%

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Sequence No.: 19 **Autosampler Location: 315**
Sample ID: 335304022|1339675|10 **Date Collected: 11/7/2013 18:02:05**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304022|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21132.4	21132.4	98.3	%			18:02:35
1	Al 396.153Radial†	-99.4	-4.9	6.0259	µg/L	6.0259	ppb	18:02:55
1	Ca 317.933Radial†	42280.3	42924.0	29071	µg/L	29071	ppb	18:02:35
1	Fe 238.204 Radial†	661.2	641.8	2177.1	µg/L	2177.1	ppb	18:02:55
1	K 766.490 Radial†	1960.2	1313.1	1702.9	µg/L	1702.9	ppb	18:02:35
1	Mg 279.077 IEC†	1214.8	1232.0	8648.8	µg/L	8648.8	ppb	18:02:55
1	Na 589.592 Radial†	30799.8	31359.3	30193	µg/L	30193	ppb	18:02:35
1	Sr 421.552†	8978.1	9091.0	106.89	µg/L	106.89	ppb	18:02:35
1	Sc 361.383	1185278.0	1185278.0	99.047	%			18:03:56
1	Y 371.029	689533.1	689533.1	97.588	%			18:03:56
1	Ag 328.068†	808.2	169.8	0.4025	µg/L	0.4025	ppb	18:03:58
1	As 188.979†	-3.2	-0.5	-0.7665	µg/L	-0.7665	ppb	18:04:18
1	B 249.677†	8473.9	8300.1	94.782	µg/L	94.782	ppb	18:03:58
1	Ba 233.527†	8596.9	8770.0	127.92	µg/L	127.92	ppb	18:03:58
1	Be 313.107†	-6342.0	386.7	0.1710	µg/L	0.1710	ppb	18:03:58
1	Cd 226.502†	-68.5	20.7	0.0499	µg/L	0.0499	ppb	18:04:18
1	Co 228.616†	-101.4	3.3	0.1500	µg/L	0.1500	ppb	18:04:18
1	Cr 267.716†	141.6	21.7	0.3713	µg/L	0.3713	ppb	18:04:18
1	Cu 324.752†	3679.9	-307.1	-1.7987	µg/L	-1.7987	ppb	18:03:58
1	Mn 257.610†	14414.9	14355.5	43.438	µg/L	43.438	ppb	18:03:58
1	Mo 202.031†	-31.6	-22.4	-2.3600	µg/L	-2.3600	ppb	18:04:18
1	Ni 231.604†	-4.3	33.4	1.0182	µg/L	1.0182	ppb	18:04:18
1	P 214.914†	11.8	80.1	79.058	µg/L	79.058	ppb	18:04:18
1	Pb 220.353†	87.6	-20.0	-4.6287	µg/L	-4.6287	ppb	18:04:18
1	S 181.975 Axial†	164.8	141.7	484.09	µg/L	484.09	ppb	18:04:18
1	Sb 206.836†	5.8	-0.6	-0.3759	µg/L	-0.3759	ppb	18:04:18
1	Se 196.026†	13.3	-3.4	-4.07	µg/L	-4.07	ppb	18:04:18
1	SiO2†	21453.0	19767.0	3730.8	µg/L	3730.8	ppb	18:03:58
1	Si 251.611†	57743.6	57944.4	1742.4	µg/L	1742.4	ppb	18:03:58
1	Sn 189.927†	-26.3	-30.5	-9.6971	µg/L	-9.6971	ppb	18:04:18
1	Ti 334.940†	325.9	-1191.7	-0.8229	µg/L	-0.8229	ppb	18:03:58
1	Tl 190.801†	-12.3	3.4	4.2958	µg/L	4.2958	ppb	18:04:18
1	U 367.007†	403.8	87.6	10.879	µg/L	10.879	ppb	18:03:58
1	V 292.402†	369.3	27.3	0.5167	µg/L	0.5167	ppb	18:03:58
1	Zn 213.857†	665.5	147.2	1.5675	µg/L	1.5675	ppb	18:04:18
2	Sc RADIAL	21739.7	21739.7	101	%			18:02:57
2	Al 396.153Radial†	-91.5	5.8	24.514	µg/L	24.514	ppb	18:03:17
2	Ca 317.933Radial†	41994.6	41440.6	28066	µg/L	28066	ppb	18:02:57
2	Fe 238.204 Radial†	646.0	608.0	2062.4	µg/L	2062.4	ppb	18:03:17
2	K 766.490 Radial†	2057.0	1353.1	1755.6	µg/L	1755.6	ppb	18:02:57
2	Mg 279.077 IEC†	1190.0	1173.0	8234.8	µg/L	8234.8	ppb	18:03:17
2	Na 589.592 Radial†	30540.6	30228.2	29104	µg/L	29104	ppb	18:02:57
2	Sr 421.552†	8806.1	8666.0	101.89	µg/L	101.89	ppb	18:02:57
2	Sc 361.383	1191742.3	1191742.3	99.587	%			18:04:20
2	Y 371.029	692776.5	692776.5	98.047	%			18:04:20
2	Ag 328.068†	813.0	170.2	0.4311	µg/L	0.4311	ppb	18:04:22
2	As 188.979†	-5.5	-2.9	-6.1423	µg/L	-6.1423	ppb	18:04:42
2	B 249.677†	8567.6	8347.9	95.788	µg/L	95.788	ppb	18:04:22
2	Ba 233.527†	8538.1	8663.8	126.38	µg/L	126.38	ppb	18:04:22
2	Be 313.107†	-6235.1	528.8	0.2338	µg/L	0.2338	ppb	18:04:22
2	Cd 226.502†	-90.0	-0.5	-0.2774	µg/L	-0.2774	ppb	18:04:42
2	Co 228.616†	-110.6	-5.5	-0.1176	µg/L	-0.1176	ppb	18:04:42
2	Cr 267.716†	122.6	1.8	-0.0065	µg/L	-0.0065	ppb	18:04:42
2	Cu 324.752†	3566.9	-440.7	-2.7567	µg/L	-2.7567	ppb	18:04:22
2	Mn 257.610†	14261.6	14122.6	42.741	µg/L	42.741	ppb	18:04:22
2	Mo 202.031†	-27.3	-18.0	-1.8364	µg/L	-1.8364	ppb	18:04:42
2	Ni 231.604†	-1.2	36.5	1.1127	µg/L	1.1127	ppb	18:04:42
2	P 214.914†	-4.1	64.0	62.775	µg/L	62.775	ppb	18:04:42
2	Pb 220.353†	100.3	-7.7	-1.8213	µg/L	-1.8213	ppb	18:04:42

2	S 181.975 Axial†	161.0	136.9	467.81	µg/L	467.81	ppb	18:04:42
2	Sb 206.836†	7.5	1.0	0.6792	µg/L	0.6792	ppb	18:04:42
2	Se 196.026†	6.3	-10.5	-14.2	µg/L	-14.2	ppb	18:04:42
2	SiO2†	21241.7	19437.2	3668.6	µg/L	3668.6	ppb	18:04:22
2	Si 251.611†	57261.6	57144.2	1718.3	µg/L	1718.3	ppb	18:04:22
2	Sn 189.927†	-23.4	-27.4	-8.5542	µg/L	-8.5542	ppb	18:04:42
2	Ti 334.940†	508.2	-1010.4	-0.5241	µg/L	-0.5241	ppb	18:04:22
2	Tl 190.801†	-18.1	-2.3	-3.6334	µg/L	-3.6334	ppb	18:04:42
2	U 367.007†	410.7	92.3	13.127	µg/L	13.127	ppb	18:04:22
2	V 292.402†	375.7	31.6	0.5373	µg/L	0.5373	ppb	18:04:22
2	Zn 213.857†	678.4	156.6	1.7109	µg/L	1.7109	ppb	18:04:42
3	Sc RADIAL	21496.9	21496.9	100	%			18:03:19
3	Al 396.153Radial†	-94.9	1.4	17.020	µg/L	17.020	ppb	18:03:39
3	Ca 317.933Radial†	42444.5	42359.2	28688	µg/L	28688	ppb	18:03:19
3	Fe 238.204 Radial†	649.0	618.2	2097.1	µg/L	2097.1	ppb	18:03:39
3	K 766.490 Radial†	2059.1	1378.2	1788.2	µg/L	1788.2	ppb	18:03:19
3	Mg 279.077 IEC†	1200.7	1196.9	8402.7	µg/L	8402.7	ppb	18:03:39
3	Na 589.592 Radial†	30808.3	30836.8	29690	µg/L	29690	ppb	18:03:19
3	Sr 421.552†	8940.0	8898.2	104.62	µg/L	104.62	ppb	18:03:19
3	Sc 361.383	1212545.2	1212545.2	101.33	%			18:04:45
3	Y 371.029	704429.2	704429.2	99.697	%			18:04:45
3	Ag 328.068†	923.0	264.7	1.0744	µg/L	1.0744	ppb	18:04:47
3	As 188.979†	-6.2	-3.4	-7.4365	µg/L	-7.4365	ppb	18:05:07
3	B 249.677†	8743.9	8374.2	95.975	µg/L	95.975	ppb	18:04:47
3	Ba 233.527†	8801.6	8776.8	128.02	µg/L	128.02	ppb	18:04:47
3	Be 313.107†	-6418.4	455.3	0.2013	µg/L	0.2013	ppb	18:04:47
3	Cd 226.502†	-84.0	7.0	-0.1614	µg/L	-0.1614	ppb	18:05:07
3	Co 228.616†	-96.6	10.3	0.3661	µg/L	0.3661	ppb	18:05:07
3	Cr 267.716†	129.5	6.6	0.0780	µg/L	0.0780	ppb	18:05:07
3	Cu 324.752†	3529.2	-539.4	-3.4420	µg/L	-3.4420	ppb	18:04:47
3	Mn 257.610†	14601.1	14212.0	43.008	µg/L	43.008	ppb	18:04:47
3	Mo 202.031†	-23.2	-13.5	-1.2915	µg/L	-1.2915	ppb	18:05:07
3	Ni 231.604†	-18.0	20.0	0.6052	µg/L	0.6052	ppb	18:05:07
3	P 214.914†	-2.3	65.8	64.632	µg/L	64.632	ppb	18:05:07
3	Pb 220.353†	114.5	4.5	0.9487	µg/L	0.9487	ppb	18:05:07
3	S 181.975 Axial†	167.7	140.8	481.09	µg/L	481.09	ppb	18:05:07
3	Sb 206.836†	6.3	-0.3	-0.1403	µg/L	-0.1403	ppb	18:05:07
3	Se 196.026†	12.0	-5.0	-6.43	µg/L	-6.43	ppb	18:05:07
3	SiO2†	21906.2	19727.1	3723.3	µg/L	3723.3	ppb	18:04:47
3	Si 251.611†	58693.9	57571.3	1731.2	µg/L	1731.2	ppb	18:04:47
3	Sn 189.927†	-21.8	-25.4	-7.6821	µg/L	-7.6821	ppb	18:05:07
3	Ti 334.940†	376.3	-1149.4	-0.7642	µg/L	-0.7642	ppb	18:04:47
3	Tl 190.801†	-13.1	2.9	3.6392	µg/L	3.6392	ppb	18:05:07
3	U 367.007†	440.4	114.4	19.766	µg/L	19.766	ppb	18:04:47
3	V 292.402†	233.3	-115.4	-0.5167	µg/L	-0.5167	ppb	18:04:47
3	Zn 213.857†	657.2	123.9	1.2751	µg/L	1.2751	ppb	18:05:07

Mean Data: 335304022|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1196521.8	99.987	%	1.1906				1.19%
Sc RADIAL	21456.3	99.9	%	1.42				1.42%
Y 371.029	695579.6	98.444	%	1.1087				1.13%
Ag 328.068†	201.6	0.6360	µg/L	0.37995	0.6360	ppb	0.37995	59.74%
Al 396.153Radial†	0.8	15.854	µg/L	9.2992	15.854	ppb	9.2992	58.66%
As 188.979†	-2.3	-4.7817	µg/L	3.53703	-4.7817	ppb	3.53703	73.97%
B 249.677†	8340.7	95.515	µg/L	0.6417	95.515	ppb	0.6417	0.67%
Ba 233.527†	8736.9	127.44	µg/L	0.923	127.44	ppb	0.923	0.72%
Be 313.107†	456.9	0.2020	µg/L	0.03143	0.2020	ppb	0.03143	15.55%
Ca 317.933Radial†	42241.3	28608	µg/L	507.0	28608	ppb	507.0	1.77%
Cd 226.502†	9.0	-0.1296	µg/L	0.16595	-0.1296	ppb	0.16595	128.04%
Co 228.616†	2.7	0.1328	µg/L	0.24230	0.1328	ppb	0.24230	182.46%
Cr 267.716†	10.0	0.1476	µg/L	0.19830	0.1476	ppb	0.19830	134.36%
Cu 324.752†	-429.0	-2.6658	µg/L	0.82542	-2.6658	ppb	0.82542	30.96%
Fe 238.204 Radial†	622.6	2112.2	µg/L	58.81	2112.2	ppb	58.81	2.78%
K 766.490 Radial†	1348.2	1748.9	µg/L	43.04	1748.9	ppb	43.04	2.46%
Mg 279.077 IEC†	1200.6	8428.8	µg/L	208.23	8428.8	ppb	208.23	2.47%
Mn 257.610†	14230.0	43.062	µg/L	0.3513	43.062	ppb	0.3513	0.82%
Mo 202.031†	-18.0	-1.8293	µg/L	0.53428	-1.8293	ppb	0.53428	29.21%
Na 589.592 Radial†	30808.1	29662	µg/L	545.0	29662	ppb	545.0	1.84%

Ni 231.604†	30.0	0.9121	µg/L	0.26994	0.9121	ppb	0.26994	29.60%
P 214.914†	70.0	68.822	µg/L	8.9133	68.822	ppb	8.9133	12.95%
Pb 220.353†	-7.7	-1.8338	µg/L	2.78872	-1.8338	ppb	2.78872	152.07%
S 181.975 Axial†	139.8	477.66	µg/L	8.665	477.66	ppb	8.665	1.81%
Sb 206.836†	0.0	0.0544	µg/L	0.55383	0.0544	ppb	0.55383	>999.9%
Se 196.026†	-6.3	-8.24	µg/L	5.302	-8.24	ppb	5.302	64.38%
SiO2†	19643.8	3707.6	µg/L	33.97	3707.6	ppb	33.97	0.92%
Si 251.611†	57553.3	1730.6	µg/L	12.05	1730.6	ppb	12.05	0.70%
Sn 189.927†	-27.8	-8.6445	µg/L	1.01051	-8.6445	ppb	1.01051	11.69%
Sr 421.552†	8885.1	104.47	µg/L	2.504	104.47	ppb	2.504	2.40%
Ti 334.940†	-1117.2	-0.7037	µg/L	0.15827	-0.7037	ppb	0.15827	22.49%
Tl 190.801†	1.3	1.4339	µg/L	4.40066	1.4339	ppb	4.40066	306.90%
U 367.007†	98.1	14.591	µg/L	4.6209	14.591	ppb	4.6209	31.67%
V 292.402†	-18.8	0.1791	µg/L	0.60264	0.1791	ppb	0.60264	336.48%
Zn 213.857†	142.6	1.5178	µg/L	0.22212	1.5178	ppb	0.22212	14.63%

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Sequence No.: 20 **Autosampler Location: 316**
Sample ID: 335304023|1339675|10 **Date Collected: 11/7/2013 18:05:15**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304023|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21431.2	21431.2	99.7	%			18:05:45
1	Al 396.153Radial†	-88.6	7.4	22.715	µg/L	22.715	ppb	18:06:05
1	Ca 317.933Radial†	27418.5	27423.6	18572	µg/L	18572	ppb	18:05:45
1	Fe 238.204 Radial†	1072.2	1044.5	3543.1	µg/L	3543.1	ppb	18:06:05
1	K 766.490 Radial†	2122.7	1448.3	1875.5	µg/L	1875.5	ppb	18:05:45
1	Mg 279.077 IEC†	1060.8	1060.3	7444.1	µg/L	7444.1	ppb	18:06:05
1	Na 589.592 Radial†	40780.6	40929.7	39407	µg/L	39407	ppb	18:05:45
1	Sr 421.552†	10481.3	10470.8	123.23	µg/L	123.23	ppb	18:05:45
1	Sc 361.383	1199773.0	1199773.0	100.26	%			18:07:07
1	Y 371.029	696998.1	696998.1	98.645	%			18:07:07
1	Ag 328.068†	609.5	-38.2	-0.7993	µg/L	-0.7993	ppb	18:07:09
1	As 188.979†	3.4	6.1	14.419	µg/L	14.419	ppb	18:07:29
1	B 249.677†	20640.8	20332.4	239.86	µg/L	239.86	ppb	18:07:09
1	Ba 233.527†	6005.6	6080.5	88.668	µg/L	88.668	ppb	18:07:09
1	Be 313.107†	-6210.1	595.6	0.2634	µg/L	0.2634	ppb	18:07:09
1	Cd 226.502†	-64.7	25.3	-0.0528	µg/L	-0.0528	ppb	18:07:29
1	Co 228.616†	-84.4	21.4	0.6737	µg/L	0.6737	ppb	18:07:29
1	Cr 267.716†	136.3	14.7	0.2685	µg/L	0.2685	ppb	18:07:29
1	Cu 324.752†	3487.9	-543.5	-3.2820	µg/L	-3.2820	ppb	18:07:09
1	Mn 257.610†	51715.2	51383.8	156.26	µg/L	156.26	ppb	18:07:09
1	Mo 202.031†	-9.8	-0.3	0.2843	µg/L	0.2843	ppb	18:07:29
1	Ni 231.604†	67.6	105.2	3.2211	µg/L	3.2211	ppb	18:07:29
1	P 214.914†	20.9	89.0	86.425	µg/L	86.425	ppb	18:07:29
1	Pb 220.353†	106.5	-2.2	-0.5937	µg/L	-0.5937	ppb	18:07:29
1	S 181.975 Axial†	305.1	279.6	959.81	µg/L	959.81	ppb	18:07:29
1	Sb 206.836†	7.8	1.2	0.8804	µg/L	0.8804	ppb	18:07:29
1	Se 196.026†	13.0	-3.9	-4.31	µg/L	-4.31	ppb	18:07:29
1	SiO2†	24939.6	22982.8	4337.8	µg/L	4337.8	ppb	18:07:09
1	Si 251.611†	67675.3	67146.2	2019.2	µg/L	2019.2	ppb	18:07:09
1	Sn 189.927†	-16.0	-19.8	-6.3353	µg/L	-6.3353	ppb	18:07:29
1	Ti 334.940†	794.1	-728.7	-0.4730	µg/L	-0.4730	ppb	18:07:09
1	Tl 190.801†	-7.9	7.9	10.337	µg/L	10.337	ppb	18:07:29
1	U 367.007†	377.9	56.8	-3.9340	µg/L	-3.9340	ppb	18:07:09
1	V 292.402†	272.1	-74.2	0.0121	µg/L	0.0121	ppb	18:07:09
1	Zn 213.857†	685.2	158.8	1.5958	µg/L	1.5958	ppb	18:07:29
2	Sc RADIAL	21089.8	21089.8	98.1	%			18:06:07
2	Al 396.153Radial†	-94.5	-0.1	9.3925	µg/L	9.3925	ppb	18:06:27
2	Ca 317.933Radial†	27152.8	27597.9	18690	µg/L	18690	ppb	18:06:07
2	Fe 238.204 Radial†	1063.2	1052.7	3571.2	µg/L	3571.2	ppb	18:06:27
2	K 766.490 Radial†	2152.5	1513.1	1959.9	µg/L	1959.9	ppb	18:06:07
2	Mg 279.077 IEC†	1057.6	1074.3	7542.1	µg/L	7542.1	ppb	18:06:27
2	Na 589.592 Radial†	40629.6	41437.8	39896	µg/L	39896	ppb	18:06:07
2	Sr 421.552†	10373.0	10530.7	123.94	µg/L	123.94	ppb	18:06:07
2	Sc 361.383	1173390.9	1173390.9	98.054	%			18:07:31
2	Y 371.029	681571.5	681571.5	96.462	%			18:07:31
2	Ag 328.068†	640.5	7.0	-0.4910	µg/L	-0.4910	ppb	18:07:33
2	As 188.979†	9.9	12.8	29.775	µg/L	29.775	ppb	18:07:53
2	B 249.677†	20225.5	20371.7	240.22	µg/L	240.22	ppb	18:07:33
2	Ba 233.527†	5871.0	6077.9	88.630	µg/L	88.630	ppb	18:07:33
2	Be 313.107†	-6163.9	503.5	0.2226	µg/L	0.2226	ppb	18:07:33
2	Cd 226.502†	-65.4	23.1	-0.0921	µg/L	-0.0921	ppb	18:07:53
2	Co 228.616†	-86.9	17.0	0.5387	µg/L	0.5387	ppb	18:07:53
2	Cr 267.716†	120.4	1.6	0.0122	µg/L	0.0122	ppb	18:07:53
2	Cu 324.752†	3543.9	-408.1	-2.3206	µg/L	-2.3206	ppb	18:07:33
2	Mn 257.610†	50939.7	51752.6	157.38	µg/L	157.38	ppb	18:07:33
2	Mo 202.031†	-9.0	0.2	0.3521	µg/L	0.3521	ppb	18:07:53
2	Ni 231.604†	57.0	95.9	2.9348	µg/L	2.9348	ppb	18:07:53
2	P 214.914†	-1.3	66.9	63.686	µg/L	63.686	ppb	18:07:53
2	Pb 220.353†	106.1	-0.3	-0.1594	µg/L	-0.1594	ppb	18:07:53

2	S 181.975 Axial†	303.1	284.4	976.26	µg/L	976.26	ppb	18:07:53
2	Sb 206.836†	7.5	1.1	0.8268	µg/L	0.8268	ppb	18:07:53
2	Se 196.026†	17.5	1.0	2.69	µg/L	2.69	ppb	18:07:53
2	SiO2†	24668.9	23266.1	4391.2	µg/L	4391.2	ppb	18:07:33
2	Si 251.611†	67012.0	67987.4	2044.5	µg/L	2044.5	ppb	18:07:33
2	Sn 189.927†	-14.5	-18.7	-5.8645	µg/L	-5.8645	ppb	18:07:53
2	Ti 334.940†	709.2	-797.5	-0.6053	µg/L	-0.6053	ppb	18:07:33
2	Tl 190.801†	-15.6	-0.1	-0.7792	µg/L	-0.7792	ppb	18:07:53
2	U 367.007†	401.0	88.8	5.8983	µg/L	5.8983	ppb	18:07:33
2	V 292.402†	285.4	-54.6	0.1659	µg/L	0.1659	ppb	18:07:33
2	Zn 213.857†	695.7	184.8	1.9377	µg/L	1.9377	ppb	18:07:53
3	Sc RADIAL	21277.6	21277.6	99.0	%			18:06:29
3	Al 396.153Radial†	-81.7	13.7	34.017	µg/L	34.017	ppb	18:06:49
3	Ca 317.933Radial†	27233.2	27434.9	18580	µg/L	18580	ppb	18:06:29
3	Fe 238.204 Radial†	1067.1	1047.1	3551.9	µg/L	3551.9	ppb	18:06:49
3	K 766.490 Radial†	1982.8	1322.3	1711.0	µg/L	1711.0	ppb	18:06:29
3	Mg 279.077 IEC†	1052.2	1059.3	7437.1	µg/L	7437.1	ppb	18:06:49
3	Na 589.592 Radial†	40399.2	40839.7	39320	µg/L	39320	ppb	18:06:29
3	Sr 421.552†	10479.2	10544.6	124.10	µg/L	124.10	ppb	18:06:29
3	Sc 361.383	1197181.7	1197181.7	100.04	%			18:07:55
3	Y 371.029	695864.2	695864.2	98.484	%			18:07:55
3	Ag 328.068†	758.1	111.7	0.2417	µg/L	0.2417	ppb	18:07:57
3	As 188.979†	2.1	4.8	11.542	µg/L	11.542	ppb	18:08:17
3	B 249.677†	20103.9	19840.2	233.75	µg/L	233.75	ppb	18:07:57
3	Ba 233.527†	5827.7	5915.6	86.262	µg/L	86.262	ppb	18:07:57
3	Be 313.107†	-6248.7	543.6	0.2404	µg/L	0.2404	ppb	18:07:57
3	Cd 226.502†	-57.2	32.7	0.0654	µg/L	0.0654	ppb	18:08:17
3	Co 228.616†	-69.5	36.1	1.1210	µg/L	1.1210	ppb	18:08:17
3	Cr 267.716†	117.0	-4.3	-0.1042	µg/L	-0.1042	ppb	18:08:17
3	Cu 324.752†	3641.4	-382.5	-2.1383	µg/L	-2.1383	ppb	18:07:57
3	Mn 257.610†	50699.5	50480.1	153.51	µg/L	153.51	ppb	18:07:57
3	Mo 202.031†	-11.9	-2.4	0.0281	µg/L	0.0281	ppb	18:08:17
3	Ni 231.604†	79.3	117.0	3.5853	µg/L	3.5853	ppb	18:08:17
3	P 214.914†	20.4	88.5	85.910	µg/L	85.910	ppb	18:08:17
3	Pb 220.353†	102.4	-6.1	-1.4894	µg/L	-1.4894	ppb	18:08:17
3	S 181.975 Axial†	305.2	280.4	962.40	µg/L	962.40	ppb	18:08:17
3	Sb 206.836†	1.8	-4.7	-2.9111	µg/L	-2.9111	ppb	18:08:17
3	Se 196.026†	14.3	-2.5	-2.33	µg/L	-2.33	ppb	18:08:17
3	SiO2†	24339.4	22436.7	4234.7	µg/L	4234.7	ppb	18:07:57
3	Si 251.611†	66365.0	65982.5	1984.2	µg/L	1984.2	ppb	18:07:57
3	Sn 189.927†	-26.0	-29.9	-10.415	µg/L	-10.415	ppb	18:08:17
3	Ti 334.940†	549.7	-971.3	-0.9516	µg/L	-0.9516	ppb	18:07:57
3	Tl 190.801†	-8.9	6.9	8.9598	µg/L	8.9598	ppb	18:08:17
3	U 367.007†	441.2	120.8	16.044	µg/L	16.044	ppb	18:07:57
3	V 292.402†	232.6	-113.1	-0.2615	µg/L	-0.2615	ppb	18:07:57
3	Zn 213.857†	674.9	150.0	1.4752	µg/L	1.4752	ppb	18:08:17

Mean Data: 335304023|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1190115.2	99.451	%	1.2152				1.22%
Sc RADIAL	21266.2	99.0	%	0.80				0.80%
Y 371.029	691477.9	97.864	%	1.2168				1.24%
Ag 328.068†	26.8	-0.3496	µg/L	0.53470	-0.3496	ppb	0.53470	152.96%
Al 396.153Radial†	7.0	22.041	µg/L	12.3258	22.041	ppb	12.3258	55.92%
As 188.979†	7.9	18.579	µg/L	9.8027	18.579	ppb	9.8027	52.76%
B 249.677†	20181.4	237.94	µg/L	3.635	237.94	ppb	3.635	1.53%
Ba 233.527†	6024.7	87.853	µg/L	1.3781	87.853	ppb	1.3781	1.57%
Be 313.107†	547.6	0.2421	µg/L	0.02043	0.2421	ppb	0.02043	8.44%
Ca 317.933Radial†	27485.5	18614	µg/L	66.0	18614	ppb	66.0	0.35%
Cd 226.502†	27.0	-0.0265	µg/L	0.08195	-0.0265	ppb	0.08195	309.16%
Co 228.616†	24.8	0.7778	µg/L	0.30478	0.7778	ppb	0.30478	39.19%
Cr 267.716†	4.0	0.0588	µg/L	0.19069	0.0588	ppb	0.19069	324.03%
Cu 324.752†	-444.7	-2.5803	µg/L	0.61446	-2.5803	ppb	0.61446	23.81%
Fe 238.204 Radial†	1048.1	3555.4	µg/L	14.34	3555.4	ppb	14.34	0.40%
K 766.490 Radial†	1427.9	1848.8	µg/L	126.60	1848.8	ppb	126.60	6.85%
Mg 279.077 IEC†	1064.7	7474.4	µg/L	58.74	7474.4	ppb	58.74	0.79%
Mn 257.610†	51205.5	155.72	µg/L	1.992	155.72	ppb	1.992	1.28%
Mo 202.031†	-0.9	0.2215	µg/L	0.17088	0.2215	ppb	0.17088	77.14%
Na 589.592 Radial†	41069.1	39541	µg/L	310.5	39541	ppb	310.5	0.79%

Ni 231.604†	106.1	3.2471	µg/L	0.32602	3.2471	ppb	0.32602	10.04%
P 214.914†	81.5	78.674	µg/L	12.9820	78.674	ppb	12.9820	16.50%
Pb 220.353†	-2.9	-0.7475	µg/L	0.67823	-0.7475	ppb	0.67823	90.73%
S 181.975 Axial†	281.5	966.15	µg/L	8.847	966.15	ppb	8.847	0.92%
Sb 206.836†	-0.8	-0.4013	µg/L	2.17371	-0.4013	ppb	2.17371	541.71%
Se 196.026†	-1.8	-1.32	µg/L	3.609	-1.32	ppb	3.609	273.81%
SiO2†	22895.2	4321.3	µg/L	79.57	4321.3	ppb	79.57	1.84%
Si 251.611†	67038.7	2016.0	µg/L	30.27	2016.0	ppb	30.27	1.50%
Sn 189.927†	-22.8	-7.5383	µg/L	2.50246	-7.5383	ppb	2.50246	33.20%
Sr 421.552†	10515.4	123.76	µg/L	0.462	123.76	ppb	0.462	0.37%
Ti 334.940†	-832.5	-0.6766	µg/L	0.24713	-0.6766	ppb	0.24713	36.52%
Tl 190.801†	4.9	6.1725	µg/L	6.05958	6.1725	ppb	6.05958	98.17%
U 367.007†	88.8	6.0029	µg/L	9.98962	6.0029	ppb	9.98962	166.41%
V 292.402†	-80.6	-0.0278	µg/L	0.21651	-0.0278	ppb	0.21651	778.59%
Zn 213.857†	164.5	1.6696	µg/L	0.23994	1.6696	ppb	0.23994	14.37%

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Sequence No.: 21 **Autosampler Location: 317**
Sample ID: 335304024|1339675|10 **Date Collected: 11/7/2013 18:08:25**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304024|1339675|10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20901.2	20901.2	97.3	%			18:08:55
1	Al 396.153Radial†	-88.4	5.3	19.269	µg/L	19.269	ppb	18:09:15
1	Ca 317.933Radial†	27490.0	28194.1	19094	µg/L	19094	ppb	18:08:55
1	Fe 238.204 Radial†	1123.8	1124.7	3815.4	µg/L	3815.4	ppb	18:09:15
1	K 766.490 Radial†	2096.6	1475.4	1909.9	µg/L	1909.9	ppb	18:08:55
1	Mg 279.077 IEC†	1099.5	1127.1	7912.8	µg/L	7912.8	ppb	18:09:15
1	Na 589.592 Radial†	41864.6	43080.8	41478	µg/L	41478	ppb	18:08:55
1	Sr 421.552†	10793.1	11057.9	130.15	µg/L	130.15	ppb	18:08:55
1	Sc 361.383	1193642.6	1193642.6	99.746	%			18:10:17
1	Y 371.029	693683.3	693683.3	98.176	%			18:10:17
1	Ag 328.068†	615.1	-29.5	-0.7754	µg/L	-0.7754	ppb	18:10:19
1	As 188.979†	1.5	4.2	10.298	µg/L	10.298	ppb	18:10:39
1	B 249.677†	20912.7	20710.7	243.55	µg/L	243.55	ppb	18:10:19
1	Ba 233.527†	6139.2	6245.2	91.066	µg/L	91.066	ppb	18:10:19
1	Be 313.107†	-6149.5	624.6	0.2762	µg/L	0.2762	ppb	18:10:19
1	Cd 226.502†	-62.9	26.8	-0.0632	µg/L	-0.0632	ppb	18:10:39
1	Co 228.616†	-87.2	18.1	0.5718	µg/L	0.5718	ppb	18:10:39
1	Cr 267.716†	135.2	14.3	0.2525	µg/L	0.2525	ppb	18:10:39
1	Cu 324.752†	3383.7	-630.1	-3.8407	µg/L	-3.8407	ppb	18:10:19
1	Mn 257.610†	51543.8	51476.9	156.53	µg/L	156.53	ppb	18:10:19
1	Mo 202.031†	-12.6	-3.2	-0.0373	µg/L	-0.0373	ppb	18:10:39
1	Ni 231.604†	84.6	122.5	3.7531	µg/L	3.7531	ppb	18:10:39
1	P 214.914†	25.1	93.3	90.418	µg/L	90.418	ppb	18:10:39
1	Pb 220.353†	107.4	-0.8	-0.2936	µg/L	-0.2936	ppb	18:10:39
1	S 181.975 Axial†	295.3	271.4	931.26	µg/L	931.26	ppb	18:10:39
1	Sb 206.836†	8.8	2.3	1.5474	µg/L	1.5474	ppb	18:10:39
1	Se 196.026†	14.3	-2.5	-2.27	µg/L	-2.27	ppb	18:10:39
1	SiO2†	25579.0	23751.6	4482.9	µg/L	4482.9	ppb	18:10:19
1	Si 251.611†	69695.3	69518.0	2090.5	µg/L	2090.5	ppb	18:10:19
1	Sn 189.927†	-15.2	-19.2	-6.0304	µg/L	-6.0304	ppb	18:10:39
1	Ti 334.940†	692.9	-826.0	-0.6472	µg/L	-0.6472	ppb	18:10:19
1	Tl 190.801†	-9.0	6.7	8.7192	µg/L	8.7192	ppb	18:10:39
1	U 367.007†	445.1	126.1	16.248	µg/L	16.248	ppb	18:10:19
1	V 292.402†	146.5	-198.8	-0.8444	µg/L	-0.8444	ppb	18:10:19
1	Zn 213.857†	698.0	175.1	1.7742	µg/L	1.7742	ppb	18:10:39
2	Sc RADIAL	21210.7	21210.7	98.7	%			18:09:17
2	Al 396.153Radial†	-92.1	2.9	15.195	µg/L	15.195	ppb	18:09:37
2	Ca 317.933Radial†	28293.3	28595.5	19366	µg/L	19366	ppb	18:09:17
2	Fe 238.204 Radial†	1112.7	1096.7	3720.2	µg/L	3720.2	ppb	18:09:37
2	K 766.490 Radial†	2169.2	1517.6	1965.1	µg/L	1965.1	ppb	18:09:17
2	Mg 279.077 IEC†	1083.0	1094.0	7680.2	µg/L	7680.2	ppb	18:09:37
2	Na 589.592 Radial†	42430.6	43026.3	41426	µg/L	41426	ppb	18:09:17
2	Sr 421.552†	10993.4	11098.9	130.63	µg/L	130.63	ppb	18:09:17
2	Sc 361.383	1195831.0	1195831.0	99.929	%			18:10:41
2	Y 371.029	695093.6	695093.6	98.375	%			18:10:41
2	Ag 328.068†	606.6	-39.1	-0.8379	µg/L	-0.8379	ppb	18:10:43
2	As 188.979†	3.3	6.0	14.323	µg/L	14.323	ppb	18:11:03
2	B 249.677†	21249.8	21009.7	247.62	µg/L	247.62	ppb	18:10:43
2	Ba 233.527†	6205.2	6300.0	91.867	µg/L	91.867	ppb	18:10:43
2	Be 313.107†	-6215.6	569.7	0.2519	µg/L	0.2519	ppb	18:10:43
2	Cd 226.502†	-59.0	30.8	0.0139	µg/L	0.0139	ppb	18:11:03
2	Co 228.616†	-76.7	28.8	0.8988	µg/L	0.8988	ppb	18:11:03
2	Cr 267.716†	116.8	-4.3	-0.0960	µg/L	-0.0960	ppb	18:11:03
2	Cu 324.752†	3507.9	-512.0	-3.0297	µg/L	-3.0297	ppb	18:10:43
2	Mn 257.610†	52208.3	52047.3	158.28	µg/L	158.28	ppb	18:10:43
2	Mo 202.031†	-15.5	-6.0	-0.3915	µg/L	-0.3915	ppb	18:11:03
2	Ni 231.604†	78.8	116.6	3.5696	µg/L	3.5696	ppb	18:11:03
2	P 214.914†	20.8	89.0	86.128	µg/L	86.128	ppb	18:11:03
2	Pb 220.353†	117.5	9.1	1.9674	µg/L	1.9674	ppb	18:11:03

2	S 181.975 Axial†	300.7	276.2	947.75	µg/L	947.75	ppb	18:11:03
2	Sb 206.836†	10.5	4.0	2.6246	µg/L	2.6246	ppb	18:11:03
2	Se 196.026†	9.6	-7.2	-8.92	µg/L	-8.92	ppb	18:11:03
2	SiO2†	25713.5	23839.3	4499.4	µg/L	4499.4	ppb	18:10:43
2	Si 251.611†	70449.4	70144.7	2109.4	µg/L	2109.4	ppb	18:10:43
2	Sn 189.927†	-12.7	-16.6	-4.9485	µg/L	-4.9485	ppb	18:11:03
2	Ti 334.940†	967.4	-552.6	-0.0971	µg/L	-0.0971	ppb	18:10:43
2	Tl 190.801†	-15.8	-0.0	-0.6466	µg/L	-0.6466	ppb	18:11:03
2	U 367.007†	409.8	89.9	5.3710	µg/L	5.3710	ppb	18:10:43
2	V 292.402†	233.8	-111.7	-0.2368	µg/L	-0.2368	ppb	18:10:43
2	Zn 213.857†	677.1	152.9	1.4941	µg/L	1.4941	ppb	18:11:03
3	Sc RADIAL	21253.8	21253.8	98.9	%			18:09:39
3	Al 396.153Radial†	-97.4	-2.3	5.7368	µg/L	5.7368	ppb	18:09:59
3	Ca 317.933Radial†	27893.5	28133.2	19053	µg/L	19053	ppb	18:09:39
3	Fe 238.204 Radial†	1102.8	1084.3	3678.3	µg/L	3678.3	ppb	18:09:59
3	K 766.490 Radial†	2030.6	1373.0	1776.5	µg/L	1776.5	ppb	18:09:39
3	Mg 279.077 IEC†	1073.3	1081.9	7595.5	µg/L	7595.5	ppb	18:09:59
3	Na 589.592 Radial†	41741.1	42242.0	40670	µg/L	40670	ppb	18:09:39
3	Sr 421.552†	10913.9	10995.9	129.42	µg/L	129.42	ppb	18:09:39
3	Sc 361.383	1197962.4	1197962.4	100.11	%			18:11:05
3	Y 371.029	696263.4	696263.4	98.541	%			18:11:05
3	Ag 328.068†	485.8	-160.9	-1.6884	µg/L	-1.6884	ppb	18:11:07
3	As 188.979†	7.3	10.0	23.389	µg/L	23.389	ppb	18:11:27
3	B 249.677†	21116.4	20838.6	245.72	µg/L	245.72	ppb	18:11:07
3	Ba 233.527†	6167.5	6251.3	91.159	µg/L	91.159	ppb	18:11:07
3	Be 313.107†	-6139.6	656.7	0.2904	µg/L	0.2904	ppb	18:11:07
3	Cd 226.502†	-69.0	21.0	-0.1403	µg/L	-0.1403	ppb	18:11:27
3	Co 228.616†	-68.6	37.1	1.1510	µg/L	1.1510	ppb	18:11:27
3	Cr 267.716†	133.2	11.8	0.2110	µg/L	0.2110	ppb	18:11:27
3	Cu 324.752†	3501.4	-524.7	-3.1257	µg/L	-3.1257	ppb	18:11:07
3	Mn 257.610†	51923.1	51669.5	157.13	µg/L	157.13	ppb	18:11:07
3	Mo 202.031†	-15.0	-5.6	-0.3418	µg/L	-0.3418	ppb	18:11:27
3	Ni 231.604†	84.4	122.1	3.7398	µg/L	3.7398	ppb	18:11:27
3	P 214.914†	28.1	96.2	93.610	µg/L	93.610	ppb	18:11:27
3	Pb 220.353†	118.7	10.2	2.2094	µg/L	2.2094	ppb	18:11:27
3	S 181.975 Axial†	302.8	277.8	953.34	µg/L	953.34	ppb	18:11:27
3	Sb 206.836†	5.5	-1.0	-0.5597	µg/L	-0.5597	ppb	18:11:27
3	Se 196.026†	14.7	-2.2	-1.84	µg/L	-1.84	ppb	18:11:27
3	SiO2†	25693.2	23773.2	4487.0	µg/L	4487.0	ppb	18:11:07
3	Si 251.611†	70037.8	69608.1	2093.2	µg/L	2093.2	ppb	18:11:07
3	Sn 189.927†	-18.4	-22.3	-7.2934	µg/L	-7.2934	ppb	18:11:27
3	Ti 334.940†	808.7	-712.9	-0.4223	µg/L	-0.4223	ppb	18:11:07
3	Tl 190.801†	-18.6	-2.8	-4.4529	µg/L	-4.4529	ppb	18:11:27
3	U 367.007†	405.2	84.5	3.9737	µg/L	3.9737	ppb	18:11:07
3	V 292.402†	287.6	-58.3	0.1459	µg/L	0.1459	ppb	18:11:07
3	Zn 213.857†	690.6	165.2	1.6612	µg/L	1.6612	ppb	18:11:27

Mean Data: 335304024|1339675|10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1195812.0	99.928	%	0.1805				0.18%
Sc RADIAL	21121.9	98.3	%	0.90				0.91%
Y 371.029	695013.4	98.364	%	0.1828				0.19%
Ag 328.068†	-76.5	-1.1005	µg/L	0.51002	-1.1005	ppb	0.51002	46.34%
Al 396.153Radial†	2.0	13.400	µg/L	6.9423	13.400	ppb	6.9423	51.81%
As 188.979†	6.8	16.003	µg/L	6.7054	16.003	ppb	6.7054	41.90%
B 249.677†	20853.0	245.63	µg/L	2.038	245.63	ppb	2.038	0.83%
Ba 233.527†	6265.5	91.364	µg/L	0.4383	91.364	ppb	0.4383	0.48%
Be 313.107†	617.0	0.2728	µg/L	0.01945	0.2728	ppb	0.01945	7.13%
Ca 317.933Radial†	28307.6	19171	µg/L	170.1	19171	ppb	170.1	0.89%
Cd 226.502†	26.2	-0.0632	µg/L	0.07708	-0.0632	ppb	0.07708	121.96%
Co 228.616†	28.0	0.8739	µg/L	0.29041	0.8739	ppb	0.29041	33.23%
Cr 267.716†	7.3	0.1225	µg/L	0.19038	0.1225	ppb	0.19038	155.42%
Cu 324.752†	-555.6	-3.3320	µg/L	0.44312	-3.3320	ppb	0.44312	13.30%
Fe 238.204 Radial†	1101.9	3738.0	µg/L	70.25	3738.0	ppb	70.25	1.88%
K 766.490 Radial†	1455.3	1883.9	µg/L	96.93	1883.9	ppb	96.93	5.15%
Mg 279.077 IEC†	1101.0	7729.5	µg/L	164.29	7729.5	ppb	164.29	2.13%
Mn 257.610†	51731.2	157.31	µg/L	0.886	157.31	ppb	0.886	0.56%
Mo 202.031†	-4.9	-0.2569	µg/L	0.19175	-0.2569	ppb	0.19175	74.65%
Na 589.592 Radial†	42783.0	41191	µg/L	451.9	41191	ppb	451.9	1.10%

Ni 231.604†	120.4	3.6875	µg/L	0.10229	3.6875	ppb	0.10229	2.77%
P 214.914†	92.8	90.052	µg/L	3.7546	90.052	ppb	3.7546	4.17%
Pb 220.353†	6.2	1.2944	µg/L	1.38058	1.2944	ppb	1.38058	106.66%
S 181.975 Axial†	275.1	944.11	µg/L	11.481	944.11	ppb	11.481	1.22%
Sb 206.836†	1.7	1.2041	µg/L	1.61970	1.2041	ppb	1.61970	134.52%
Se 196.026†	-4.0	-4.34	µg/L	3.967	-4.34	ppb	3.967	91.36%
SiO2†	23788.0	4489.8	µg/L	8.62	4489.8	ppb	8.62	0.19%
Si 251.611†	69757.0	2097.7	µg/L	10.19	2097.7	ppb	10.19	0.49%
Sn 189.927†	-19.4	-6.0907	µg/L	1.17362	-6.0907	ppb	1.17362	19.27%
Sr 421.552†	11050.9	130.07	µg/L	0.610	130.07	ppb	0.610	0.47%
Ti 334.940†	-697.2	-0.3889	µg/L	0.27656	-0.3889	ppb	0.27656	71.12%
Tl 190.801†	1.3	1.2066	µg/L	6.77878	1.2066	ppb	6.77878	561.83%
U 367.007†	100.2	8.5308	µg/L	6.71954	8.5308	ppb	6.71954	78.77%
V 292.402†	-122.9	-0.3118	µg/L	0.49937	-0.3118	ppb	0.49937	160.17%
Zn 213.857†	164.4	1.6432	µg/L	0.14093	1.6432	ppb	0.14093	8.58%

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Sequence No.: 22 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 18:11:35**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21276.6	21276.6	99.0	%			18:12:07
1	Al 396.153Radial†	3351.2	3480.6	6220.5	µg/L	6220.5	ppb	18:12:07
1	Ca 317.933Radial†	7473.4	7480.5	5065.3	µg/L	5065.3	ppb	18:12:27
1	Fe 238.204 Radial†	1526.9	1511.5	5112.2	µg/L	5112.2	ppb	18:12:27
1	K 766.490 Radial†	4789.9	4157.4	5435.2	µg/L	5435.2	ppb	18:12:07
1	Mg 279.077 IEC†	742.2	746.3	5240.1	µg/L	5240.1	ppb	18:12:27
1	Na 589.592 Radial†	14867.2	15056.4	14496	µg/L	14496	ppb	18:12:07
1	Sr 421.552†	43838.8	44235.5	521.19	µg/L	521.19	ppb	18:12:07
1	Sc 361.383	1164357.6	1164357.6	97.299	%			18:13:29
1	Y 371.029	676006.3	676006.3	95.674	%			18:13:29
1	Ag 328.068†	72896.0	74273.4	526.55	µg/L	526.55	ppb	18:13:31
1	As 188.979†	189.9	197.8	457.72	µg/L	457.72	ppb	18:13:51
1	B 249.677†	39395.4	40233.7	482.86	µg/L	482.86	ppb	18:13:31
1	Ba 233.527†	33577.3	34599.8	506.15	µg/L	506.15	ppb	18:13:31
1	Be 313.107†	1086512.3	1123463.0	496.77	µg/L	496.77	ppb	18:13:29
1	Cd 226.502†	30034.4	30958.0	499.84	µg/L	499.84	ppb	18:13:31
1	Co 228.616†	15442.2	15976.5	487.76	µg/L	487.76	ppb	18:13:51
1	Cr 267.716†	26216.0	26822.5	508.57	µg/L	508.57	ppb	18:13:31
1	Cu 324.752†	75223.2	73289.0	516.83	µg/L	516.83	ppb	18:13:31
1	Mn 257.610†	163158.7	167489.9	509.91	µg/L	509.91	ppb	18:13:31
1	Mo 202.031†	4036.0	4157.4	500.65	µg/L	500.65	ppb	18:13:51
1	Ni 231.604†	16085.2	16569.4	510.16	µg/L	510.16	ppb	18:13:31
1	P 214.914†	2333.9	2466.9	2509.4	µg/L	2509.4	ppb	18:13:51
1	Pb 220.353†	2190.0	2142.4	487.76	µg/L	487.76	ppb	18:13:51
1	S 181.975 Axial†	302.0	285.7	978.65	µg/L	978.65	ppb	18:13:51
1	Sb 206.836†	785.0	800.3	509.65	µg/L	509.65	ppb	18:13:51
1	Se 196.026†	358.1	351.2	499	µg/L	499	ppb	18:13:51
1	SiO2†	29659.9	28590.8	5406.2	µg/L	5406.2	ppb	18:13:31
1	Si 251.611†	82139.1	84064.5	2521.3	µg/L	2521.3	ppb	18:13:31
1	Sn 189.927†	1222.2	1252.2	506.90	µg/L	506.90	ppb	18:13:51
1	Ti 334.940†	259303.7	264981.1	511.90	µg/L	511.90	ppb	18:13:31
1	Tl 190.801†	317.0	341.6	468.23	µg/L	468.23	ppb	18:13:51
1	U 367.007†	1873.4	1605.2	472.59	µg/L	472.59	ppb	18:13:31
1	V 292.402†	68562.7	70120.3	518.40	µg/L	518.40	ppb	18:13:31
1	Zn 213.857†	37901.1	38428.6	506.15	µg/L	506.15	ppb	18:13:31
2	Sc RADIAL	21214.8	21214.8	98.7	%			18:12:29
2	Al 396.153Radial†	3359.8	3499.2	6253.0	µg/L	6253.0	ppb	18:12:29
2	Ca 317.933Radial†	7591.1	7621.7	5160.9	µg/L	5160.9	ppb	18:12:49
2	Fe 238.204 Radial†	1548.6	1538.0	5199.9	µg/L	5199.9	ppb	18:12:49
2	K 766.490 Radial†	4967.4	4351.3	5689.5	µg/L	5689.5	ppb	18:12:29
2	Mg 279.077 IEC†	757.2	763.7	5361.8	µg/L	5361.8	ppb	18:12:49
2	Na 589.592 Radial†	14924.0	15157.7	14594	µg/L	14594	ppb	18:12:29
2	Sr 421.552†	44270.2	44801.5	527.86	µg/L	527.86	ppb	18:12:29
2	Sc 361.383	1103970.1	1103970.1	92.253	%			18:13:53
2	Y 371.029	641647.0	641647.0	90.811	%			18:13:53
2	Ag 328.068†	73661.9	79201.7	561.54	µg/L	561.54	ppb	18:13:55
2	As 188.979†	213.7	234.4	541.49	µg/L	541.49	ppb	18:14:15
2	B 249.677†	39958.8	43059.2	517.98	µg/L	517.98	ppb	18:13:55
2	Ba 233.527†	34272.0	37240.5	544.77	µg/L	544.77	ppb	18:13:55
2	Be 313.107†	1024705.4	1117548.0	494.15	µg/L	494.15	ppb	18:13:53
2	Cd 226.502†	30401.6	33044.6	533.56	µg/L	533.56	ppb	18:13:55
2	Co 228.616†	16811.0	18328.4	559.63	µg/L	559.63	ppb	18:14:15
2	Cr 267.716†	26418.4	28515.7	540.67	µg/L	540.67	ppb	18:13:55
2	Cu 324.752†	76410.0	78804.4	555.68	µg/L	555.68	ppb	18:13:55
2	Mn 257.610†	165298.6	178982.1	544.90	µg/L	544.90	ppb	18:13:55
2	Mo 202.031†	4378.1	4755.2	572.60	µg/L	572.60	ppb	18:14:15
2	Ni 231.604†	16244.5	17646.5	543.32	µg/L	543.32	ppb	18:13:55
2	P 214.914†	2525.8	2806.1	2855.4	µg/L	2855.4	ppb	18:14:15
2	Pb 220.353†	2392.1	2484.5	565.64	µg/L	565.64	ppb	18:14:15

2	S 181.975 Axial†	323.6	326.1	1117.3 µg/L	1117.3 ppb	18:14:15
2	Sb 206.836†	840.3	904.4	576.27 µg/L	576.27 ppb	18:14:15
2	Se 196.026†	389.7	405.6	576 µg/L	576 ppb	18:14:15
2	SiO2†	29907.0	30526.0	5772.1 µg/L	5772.1 ppb	18:13:55
2	Si 251.611†	83293.5	89933.7	2696.8 µg/L	2696.8 ppb	18:13:55
2	Sn 189.927†	1336.2	1444.4	584.66 µg/L	584.66 ppb	18:14:15
2	Ti 334.940†	262859.4	283413.2	547.50 µg/L	547.50 ppb	18:13:55
2	Tl 190.801†	338.9	383.2	525.09 µg/L	525.09 ppb	18:14:15
2	U 367.007†	1825.8	1659.0	488.63 µg/L	488.63 ppb	18:13:55
2	V 292.402†	69436.1	74921.6	554.30 µg/L	554.30 ppb	18:13:55
2	Zn 213.857†	38288.6	40979.4	539.78 µg/L	539.78 ppb	18:13:55
3	Sc RADIAL	21657.8	21657.8	101 %		18:12:51
3	Al 396.153Radial†	3374.2	3443.9	6154.7 µg/L	6154.7 ppb	18:12:51
3	Ca 317.933Radial†	7612.5	7485.7	5068.8 µg/L	5068.8 ppb	18:13:11
3	Fe 238.204 Radial†	1550.9	1508.2	5100.6 µg/L	5100.6 ppb	18:13:11
3	K 766.490 Radial†	5021.0	4301.5	5623.5 µg/L	5623.5 ppb	18:12:51
3	Mg 279.077 IEC†	754.6	745.5	5234.0 µg/L	5234.0 ppb	18:13:11
3	Na 589.592 Radial†	15122.4	15045.4	14486 µg/L	14486 ppb	18:12:51
3	Sr 421.552†	44890.1	44499.2	524.30 µg/L	524.30 ppb	18:12:51
3	Sc 361.383	1220098.5	1220098.5	101.96 %		18:14:18
3	Y 371.029	708515.4	708515.4	100.27 %		18:14:18
3	Ag 328.068†	75112.5	73024.6	517.72 µg/L	517.72 ppb	18:14:20
3	As 188.979†	214.4	213.0	492.28 µg/L	492.28 ppb	18:14:40
3	B 249.677†	41115.4	40071.0	480.85 µg/L	480.85 ppb	18:14:20
3	Ba 233.527†	35090.5	34507.3	504.78 µg/L	504.78 ppb	18:14:20
3	Be 313.107†	1145553.9	1130355.4	499.81 µg/L	499.81 ppb	18:14:18
3	Cd 226.502†	31344.5	30832.7	497.82 µg/L	497.82 ppb	18:14:20
3	Co 228.616†	16694.9	16480.0	503.17 µg/L	503.17 ppb	18:14:40
3	Cr 267.716†	27134.0	26492.0	502.31 µg/L	502.31 ppb	18:14:20
3	Cu 324.752†	77648.9	72136.1	508.71 µg/L	508.71 ppb	18:14:20
3	Mn 257.610†	169493.5	166042.2	505.50 µg/L	505.50 ppb	18:14:20
3	Mo 202.031†	4353.0	4278.9	515.27 µg/L	515.27 ppb	18:14:40
3	Ni 231.604†	16688.9	16406.3	505.14 µg/L	505.14 ppb	18:14:20
3	P 214.914†	2496.2	2516.4	2560.1 µg/L	2560.1 ppb	18:14:40
3	Pb 220.353†	2382.0	2227.8	507.21 µg/L	507.21 ppb	18:14:40
3	S 181.975 Axial†	325.0	294.0	1007.4 µg/L	1007.4 ppb	18:14:40
3	Sb 206.836†	833.5	811.0	516.62 µg/L	516.62 ppb	18:14:40
3	Se 196.026†	380.4	356.3	506 µg/L	506 ppb	18:14:40
3	SiO2†	30622.2	28142.0	5321.4 µg/L	5321.4 ppb	18:14:20
3	Si 251.611†	84872.4	82888.7	2485.8 µg/L	2485.8 ppb	18:14:20
3	Sn 189.927†	1319.5	1290.3	522.31 µg/L	522.31 ppb	18:14:40
3	Ti 334.940†	268445.3	261772.0	505.70 µg/L	505.70 ppb	18:14:20
3	Tl 190.801†	348.8	357.9	490.71 µg/L	490.71 ppb	18:14:40
3	U 367.007†	1921.8	1564.7	459.94 µg/L	459.94 ppb	18:14:20
3	V 292.402†	71025.0	69316.1	512.71 µg/L	512.71 ppb	18:14:20
3	Zn 213.857†	39294.8	38015.9	500.71 µg/L	500.71 ppb	18:14:20

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1162808.7	97.170	%	4.8534				4.99%
Sc RADIAL	21383.1	99.5	%	1.12				1.12%
Y 371.029	675389.6	95.587	%	4.7325				4.95%
Ag 328.068†	75499.9	535.27	µg/L	23.175	535.27	ppb	23.175	4.33%
QC value within limits for Ag 328.068 Recovery = 107.05%								
Al 396.153Radial†	3474.6	6209.4	µg/L	50.09	6209.4	ppb	50.09	0.81%
QC value greater than the upper limit for Al 396.153Radial Recovery = 124.19%								
As 188.979†	215.1	497.16	µg/L	42.097	497.16	ppb	42.097	8.47%
QC value within limits for As 188.979 Recovery = 99.43%								
B 249.677†	41121.3	493.89	µg/L	20.880	493.89	ppb	20.880	4.23%
QC value within limits for B 249.677 Recovery = 98.78%								
Ba 233.527†	35449.2	518.57	µg/L	22.703	518.57	ppb	22.703	4.38%
QC value within limits for Ba 233.527 Recovery = 103.71%								
Be 313.107†	1123788.8	496.91	µg/L	2.834	496.91	ppb	2.834	0.57%
QC value within limits for Be 313.107 Recovery = 99.38%								
Ca 317.933Radial†	7529.3	5098.3	µg/L	54.24	5098.3	ppb	54.24	1.06%
QC value within limits for Ca 317.933Radial Recovery = 101.97%								
Cd 226.502†	31611.7	510.41	µg/L	20.080	510.41	ppb	20.080	3.93%
QC value within limits for Cd 226.502 Recovery = 102.08%								
Co 228.616†	16928.3	516.85	µg/L	37.840	516.85	ppb	37.840	7.32%

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   QC value within limits for Co 228.616  Recovery = 103.37%
Cr 267.716†            27276.7      517.18 µg/L        20.584      517.18 ppb         20.584   3.98%
   QC value within limits for Cr 267.716  Recovery = 103.44%
Cu 324.752†            74743.2      527.07 µg/L        25.103      527.07 ppb         25.103   4.76%
   QC value within limits for Cu 324.752  Recovery = 105.41%
Fe 238.204 Radial†      1519.2      5137.6 µg/L         54.33      5137.6 ppb          54.33   1.06%
   QC value within limits for Fe 238.204 Radial  Recovery = 102.75%
K 766.490 Radial†       4270.1      5582.8 µg/L        131.95      5582.8 ppb         131.95   2.36%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = 111.66%
Mg 279.077 IEC†          751.8      5278.7 µg/L         72.10      5278.7 ppb          72.10   1.37%
   QC value within limits for Mg 279.077 IEC  Recovery = 105.57%
Mn 257.610†           170838.0      520.11 µg/L        21.587      520.11 ppb         21.587   4.15%
   QC value within limits for Mn 257.610  Recovery = 104.02%
Mo 202.031†             4397.2      529.51 µg/L        38.032      529.51 ppb         38.032   7.18%
   QC value within limits for Mo 202.031  Recovery = 105.90%
Na 589.592 Radial†     15086.5       14525 µg/L          59.6       14525 ppb           59.6   0.41%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 145.25%
Ni 231.604†            16874.1      519.54 µg/L        20.749      519.54 ppb         20.749   3.99%
   QC value within limits for Ni 231.604  Recovery = 103.91%
P 214.914†              2596.5      2641.6 µg/L        186.84      2641.6 ppb         186.84   7.07%
   QC value within limits for P 214.914  Recovery = 105.66%
Pb 220.353†             2284.9      520.21 µg/L        40.533      520.21 ppb         40.533   7.79%
   QC value within limits for Pb 220.353  Recovery = 104.04%
S 181.975 Axial†         301.9      1034.4 µg/L         73.19      1034.4 ppb          73.19   7.08%
   QC value within limits for S 181.975 Axial  Recovery = 103.44%
Sb 206.836†              838.5      534.18 µg/L        36.618      534.18 ppb         36.618   6.86%
   QC value within limits for Sb 206.836  Recovery = 106.84%
Se 196.026†              371.0         527 µg/L          42.6         527 ppb           42.6   8.08%
   QC value within limits for Se 196.026  Recovery = 105.35%
SiO2†                  29086.3      5499.9 µg/L        239.52      5499.9 ppb         239.52   4.36%
   QC value within limits for SiO2  Recovery = 102.85%
Si 251.611†            85629.0      2568.0 µg/L        113.00      2568.0 ppb         113.00   4.40%
   QC value within limits for Si 251.611  Recovery = 102.72%
Sn 189.927†             1329.0      537.96 µg/L        41.175      537.96 ppb         41.175   7.65%
   QC value within limits for Sn 189.927  Recovery = 107.59%
Sr 421.552†            44512.0      524.45 µg/L         3.337      524.45 ppb          3.337   0.64%
   QC value within limits for Sr 421.552  Recovery = 104.89%
Ti 334.940†           270055.4      521.70 µg/L        22.558      521.70 ppb         22.558   4.32%
   QC value within limits for Ti 334.940  Recovery = 104.34%
Tl 190.801†              360.9      494.67 µg/L        28.638      494.67 ppb         28.638   5.79%
   QC value within limits for Tl 190.801  Recovery = 98.93%
U 367.007†              1609.6      473.72 µg/L        14.379      473.72 ppb         14.379   3.04%
   QC value within limits for U 367.007  Recovery = 94.74%
V 292.402†             71452.7      528.47 µg/L        22.551      528.47 ppb         22.551   4.27%
   QC value within limits for V 292.402  Recovery = 105.69%
Zn 213.857†            39141.3      515.55 µg/L        21.162      515.55 ppb         21.162   4.10%
   QC value within limits for Zn 213.857  Recovery = 103.11%
QC Failed.  Continue with analysis.
```

Sequence No.: 23 **Autosampler Location: 8**
Sample ID: CCB **Date Collected: 11/7/2013 18:14:48**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21269.4	21269.4	99.0	%			18:15:35
1	Al 396.153Radial†	-86.7	8.6	15.456	µg/L	15.456	ppb	18:15:35
1	Ca 317.933Radial†	75.8	9.6	6.4853	µg/L	6.4853	ppb	18:15:55
1	Fe 238.204 Radial†	29.4	-0.9	-2.9522	µg/L	-2.9522	ppb	18:15:55
1	K 766.490 Radial†	585.8	-88.2	-115.16	µg/L	-115.16	ppb	18:15:35
1	Mg 279.077 IEC†	6.1	2.9	20.421	µg/L	20.421	ppb	18:15:55
1	Na 589.592 Radial†	-8.0	33.8	32.521	µg/L	32.521	ppb	18:15:35
1	Sr 421.552†	57.1	19.7	0.2315	µg/L	0.2315	ppb	18:15:35
1	Sc 361.383	1182874.6	1182874.6	98.846	%			18:17:33
1	Y 371.029	700757.4	700757.4	99.177	%			18:17:33
1	Ag 328.068†	390.3	-251.3	-1.7766	µg/L	-1.7766	ppb	18:17:35
1	As 188.979†	-5.8	-3.2	-7.2794	µg/L	-7.2794	ppb	18:17:55
1	B 249.677†	323.6	72.1	0.9585	µg/L	0.9585	ppb	18:17:55
1	Ba 233.527†	-93.3	-4.0	-0.0575	µg/L	-0.0575	ppb	18:17:55
1	Be 313.107†	-6106.0	612.5	0.2708	µg/L	0.2708	ppb	18:17:35
1	Cd 226.502†	-102.6	-13.9	-0.2251	µg/L	-0.2251	ppb	18:17:55
1	Co 228.616†	-109.4	-5.1	-0.1550	µg/L	-0.1550	ppb	18:17:55
1	Cr 267.716†	134.4	14.7	0.2787	µg/L	0.2787	ppb	18:17:55
1	Cu 324.752†	3845.6	-131.9	-0.9287	µg/L	-0.9287	ppb	18:17:35
1	Mn 257.610†	195.3	-0.5	-0.0023	µg/L	-0.0023	ppb	18:17:55
1	Mo 202.031†	-6.6	2.8	0.3324	µg/L	0.3324	ppb	18:17:55
1	Ni 231.604†	-49.5	-12.3	-0.3789	µg/L	-0.3789	ppb	18:17:55
1	P 214.914†	-61.7	5.7	5.8414	µg/L	5.8414	ppb	18:17:55
1	Pb 220.353†	115.5	8.4	1.9161	µg/L	1.9161	ppb	18:17:55
1	S 181.975 Axial†	28.1	3.7	12.723	µg/L	12.723	ppb	18:17:55
1	Sb 206.836†	4.8	-1.7	-1.0859	µg/L	-1.0859	ppb	18:17:55
1	Se 196.026†	9.1	-7.6	-10.8	µg/L	-10.8	ppb	18:17:55
1	SiO2†	1783.9	-87.8	-16.561	µg/L	-16.561	ppb	18:17:55
1	Si 251.611†	403.8	53.9	1.6159	µg/L	1.6159	ppb	18:17:55
1	Sn 189.927†	1.6	-2.3	-0.9459	µg/L	-0.9459	ppb	18:17:55
1	Ti 334.940†	1352.3	-152.6	-0.2949	µg/L	-0.2949	ppb	18:17:35
1	Tl 190.801†	-10.2	5.5	7.6608	µg/L	7.6608	ppb	18:17:55
1	U 367.007†	316.7	0.2	0.0742	µg/L	0.0742	ppb	18:17:35
1	V 292.402†	381.1	39.9	0.2948	µg/L	0.2948	ppb	18:17:35
1	Zn 213.857†	541.4	23.0	0.3086	µg/L	0.3086	ppb	18:17:55
2	Sc RADIAL	21073.5	21073.5	98.1	%			18:16:15
2	Al 396.153Radial†	-79.7	15.0	26.773	µg/L	26.773	ppb	18:16:15
2	Ca 317.933Radial†	75.6	10.1	6.8102	µg/L	6.8102	ppb	18:16:35
2	Fe 238.204 Radial†	30.2	0.2	0.7702	µg/L	0.7702	ppb	18:16:35
2	K 766.490 Radial†	575.8	-92.9	-121.34	µg/L	-121.34	ppb	18:16:15
2	Mg 279.077 IEC†	4.6	1.5	10.598	µg/L	10.598	ppb	18:16:35
2	Na 589.592 Radial†	-32.1	9.1	8.7963	µg/L	8.7963	ppb	18:16:15
2	Sr 421.552†	38.7	1.5	0.0173	µg/L	0.0173	ppb	18:16:15
2	Sc 361.383	1195129.3	1195129.3	99.870	%			18:17:57
2	Y 371.029	707731.4	707731.4	100.16	%			18:17:57
2	Ag 328.068†	602.0	-43.4	-0.3085	µg/L	-0.3085	ppb	18:17:59
2	As 188.979†	-3.8	-1.1	-2.4076	µg/L	-2.4076	ppb	18:18:19
2	B 249.677†	368.6	113.8	1.4684	µg/L	1.4684	ppb	18:18:19
2	Ba 233.527†	-92.4	-2.2	-0.0311	µg/L	-0.0311	ppb	18:18:19
2	Be 313.107†	-6321.6	459.9	0.2034	µg/L	0.2034	ppb	18:17:59
2	Cd 226.502†	-83.9	5.8	0.0941	µg/L	0.0941	ppb	18:18:19
2	Co 228.616†	-104.4	1.1	0.0328	µg/L	0.0328	ppb	18:18:19
2	Cr 267.716†	119.3	-1.8	-0.0356	µg/L	-0.0356	ppb	18:18:19
2	Cu 324.752†	3973.3	-43.9	-0.3078	µg/L	-0.3078	ppb	18:17:59
2	Mn 257.610†	200.1	2.3	0.0067	µg/L	0.0067	ppb	18:18:19
2	Mo 202.031†	-14.9	-5.5	-0.6600	µg/L	-0.6600	ppb	18:18:19
2	Ni 231.604†	-23.1	14.6	0.4502	µg/L	0.4502	ppb	18:18:19
2	P 214.914†	-60.7	7.4	7.5733	µg/L	7.5733	ppb	18:18:19
2	Pb 220.353†	113.2	4.9	1.1208	µg/L	1.1208	ppb	18:18:19

2	S 181.975 Axial†	28.3	3.6	12.354	µg/L	12.354	ppb	18:18:19
2	Sb 206.836†	6.1	-0.4	-0.2558	µg/L	-0.2558	ppb	18:18:19
2	Se 196.026†	9.7	-7.2	-10.1	µg/L	-10.1	ppb	18:18:19
2	SiO2†	1788.9	-101.2	-19.110	µg/L	-19.110	ppb	18:18:19
2	Si 251.611†	367.3	13.1	0.4024	µg/L	0.4024	ppb	18:18:19
2	Sn 189.927†	6.0	2.1	0.8639	µg/L	0.8639	ppb	18:18:19
2	Ti 334.940†	1207.6	-311.5	-0.6027	µg/L	-0.6027	ppb	18:17:59
2	Tl 190.801†	-17.1	-1.3	-1.8635	µg/L	-1.8635	ppb	18:18:19
2	U 367.007†	325.7	6.0	1.8600	µg/L	1.8600	ppb	18:17:59
2	V 292.402†	379.8	34.7	0.2459	µg/L	0.2459	ppb	18:17:59
2	Zn 213.857†	523.7	-0.3	-0.0067	µg/L	-0.0067	ppb	18:18:19
3	Sc RADIAL	21031.5	21031.5	97.9	%			18:16:55
3	Al 396.153Radial†	-78.4	16.1	28.829	µg/L	28.829	ppb	18:16:55
3	Ca 317.933Radial†	76.2	10.9	7.3557	µg/L	7.3557	ppb	18:17:15
3	Fe 238.204 Radial†	27.6	-2.3	-7.9160	µg/L	-7.9160	ppb	18:17:15
3	K 766.490 Radial†	608.6	-58.2	-76.015	µg/L	-76.015	ppb	18:16:55
3	Mg 279.077 IEC†	2.0	-1.2	-8.1789	µg/L	-8.1789	ppb	18:17:15
3	Na 589.592 Radial†	-17.2	24.3	23.365	µg/L	23.365	ppb	18:16:55
3	Sr 421.552†	34.2	-3.0	-0.0356	µg/L	-0.0356	ppb	18:16:55
3	Sc 361.383	1183195.6	1183195.6	98.873	%			18:18:21
3	Y 371.029	700017.4	700017.4	99.072	%			18:18:21
3	Ag 328.068†	422.1	-219.3	-1.5523	µg/L	-1.5523	ppb	18:18:23
3	As 188.979†	-7.0	-4.4	-9.9224	µg/L	-9.9224	ppb	18:18:43
3	B 249.677†	332.1	80.7	1.0701	µg/L	1.0701	ppb	18:18:43
3	Ba 233.527†	-85.7	3.7	0.0549	µg/L	0.0549	ppb	18:18:43
3	Be 313.107†	-6194.8	524.3	0.2318	µg/L	0.2318	ppb	18:18:23
3	Cd 226.502†	-91.4	-2.6	-0.0406	µg/L	-0.0406	ppb	18:18:43
3	Co 228.616†	-87.9	16.7	0.5113	µg/L	0.5113	ppb	18:18:43
3	Cr 267.716†	110.5	-9.4	-0.1811	µg/L	-0.1811	ppb	18:18:43
3	Cu 324.752†	3834.4	-144.3	-1.0152	µg/L	-1.0152	ppb	18:18:23
3	Mn 257.610†	194.4	-1.4	-0.0041	µg/L	-0.0041	ppb	18:18:43
3	Mo 202.031†	-6.6	2.8	0.3367	µg/L	0.3367	ppb	18:18:43
3	Ni 231.604†	-16.5	21.1	0.6490	µg/L	0.6490	ppb	18:18:43
3	P 214.914†	-61.5	5.9	6.0830	µg/L	6.0830	ppb	18:18:43
3	Pb 220.353†	116.4	9.3	2.1116	µg/L	2.1116	ppb	18:18:43
3	S 181.975 Axial†	21.5	-3.0	-10.375	µg/L	-10.375	ppb	18:18:43
3	Sb 206.836†	0.8	-5.8	-3.6576	µg/L	-3.6576	ppb	18:18:43
3	Se 196.026†	11.4	-5.3	-7.58	µg/L	-7.58	ppb	18:18:43
3	SiO2†	1772.7	-99.5	-18.792	µg/L	-18.792	ppb	18:18:43
3	Si 251.611†	376.5	26.1	0.7802	µg/L	0.7802	ppb	18:18:43
3	Sn 189.927†	2.3	-1.5	-0.6244	µg/L	-0.6244	ppb	18:18:43
3	Ti 334.940†	1412.6	-92.0	-0.1787	µg/L	-0.1787	ppb	18:18:23
3	Tl 190.801†	-16.7	-1.1	-1.4811	µg/L	-1.4811	ppb	18:18:43
3	U 367.007†	324.7	8.2	2.5949	µg/L	2.5949	ppb	18:18:23
3	V 292.402†	369.5	28.0	0.2082	µg/L	0.2082	ppb	18:18:23
3	Zn 213.857†	525.3	6.7	0.0861	µg/L	0.0861	ppb	18:18:43

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1187066.5	99.197	%	0.5837				0.59%
Sc RADIAL	21124.8	98.3	%	0.59				0.60%
Y 371.029	702835.4	99.471	%	0.6024				0.61%
Ag 328.068†	-171.3	-1.2125	µg/L	0.79084	-1.2125	ppb	0.79084	65.22%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	13.2	23.686	µg/L	7.2011	23.686	ppb	7.2011	30.40%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-2.9	-6.5364	µg/L	3.81207	-6.5364	ppb	3.81207	58.32%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	88.9	1.1656	µg/L	0.26805	1.1656	ppb	0.26805	23.00%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-0.8	-0.0112	µg/L	0.05877	-0.0112	ppb	0.05877	523.32%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	532.2	0.2353	µg/L	0.03387	0.2353	ppb	0.03387	14.39%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	10.2	6.8837	µg/L	0.43985	6.8837	ppb	0.43985	6.39%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-3.6	-0.0572	µg/L	0.16029	-0.0572	ppb	0.16029	280.23%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	4.2	0.1297	µg/L	0.34353	0.1297	ppb	0.34353	264.90%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                1.2      0.0207 µg/L       0.23501      0.0207 ppb        0.23501 >999.9%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -106.7     -0.7506 µg/L       0.38587     -0.7506 ppb        0.38587  51.41%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -1.0     -3.3660 µg/L       4.35786     -3.3660 ppb        4.35786 129.47%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -79.7     -104.17 µg/L        24.580     -104.17 ppb         24.580  23.60%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†            1.1      7.6133 µg/L      14.53163      7.6133 ppb       14.53163 190.87%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                0.1      0.0001 µg/L       0.00580      0.0001 ppb        0.00580 >999.9%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                0.0      0.0030 µg/L       0.57419      0.0030 ppb        0.57419 >999.9%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        22.4      21.561 µg/L       11.9647      21.561 ppb        11.9647  55.49%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                7.8      0.2401 µg/L       0.54523      0.2401 ppb        0.54523 227.09%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 6.3      6.4992 µg/L       0.93797      6.4992 ppb        0.93797  14.43%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                7.6      1.7162 µg/L       0.52479      1.7162 ppb        0.52479  30.58%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.4      4.9004 µg/L      13.23035      4.9004 ppb       13.23035 269.98%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -2.6     -1.6664 µg/L       1.77367     -1.6664 ppb        1.77367 106.43%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -6.7       -9.50 µg/L         1.694       -9.50 ppb          1.694  17.83%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -96.2     -18.154 µg/L        1.3891     -18.154 ppb         1.3891   7.65%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               31.0      0.9328 µg/L       0.62098      0.9328 ppb        0.62098  66.57%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -0.6     -0.2354 µg/L       0.96557     -0.2354 ppb        0.96557 410.12%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                6.0      0.0711 µg/L       0.14147      0.0711 ppb        0.14147 199.05%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -185.4     -0.3588 µg/L       0.21912     -0.3588 ppb        0.21912  61.08%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                1.0      1.4387 µg/L       5.39186      1.4387 ppb        5.39186 374.77%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†                 4.8      1.5097 µg/L       1.29634      1.5097 ppb        1.29634  85.87%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                34.2      0.2497 µg/L       0.04343      0.2497 ppb        0.04343  17.40%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                9.8      0.1293 µg/L       0.16202      0.1293 ppb        0.16202 125.26%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

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Analysis Begun

Start Time: 11/7/2013 18:21:07 **Plasma On Time: 11/4/2013 04:46:49**
Logged In Analyst: optima4 **Technique: ICP Continuous**
Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\110713.sif
Batch ID:
Results Data Set: 110713
Results Library: C:\pe\optima4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 311**
Sample ID: 335304018|1339675|20 **Date Collected: 11/7/2013 18:21:09**
Analyst: HSC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 335304018|1339675|20

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21435.2	21435.2	99.8	%			18:21:43
1	Al 396.153Radial†	-98.8	-2.8	1.6362	µg/L	1.6362	ppb	18:22:03
1	Ca 317.933Radial†	19485.6	19466.2	13184	µg/L	13184	ppb	18:21:43
1	Fe 238.204 Radial†	538.4	509.2	1727.2	µg/L	1727.2	ppb	18:22:03
1	K 766.490 Radial†	1500.3	824.0	1070.1	µg/L	1070.1	ppb	18:21:43
1	Mg 279.077 IEC†	562.1	560.3	3933.4	µg/L	3933.4	ppb	18:22:03
1	Na 589.592 Radial†	16222.4	16303.9	15697	µg/L	15697	ppb	18:21:43
1	Sr 421.552†	4555.5	4528.6	53.259	µg/L	53.259	ppb	18:21:43
1	Sc 361.383	1187607.2	1187607.2	99.242	%			18:23:04
1	Y 371.029	693408.2	693408.2	98.137	%			18:23:04
1	Ag 328.068†	668.6	27.5	-0.1547	µg/L	-0.1547	ppb	18:23:06
1	As 188.979†	-7.0	-4.3	-9.6013	µg/L	-9.6013	ppb	18:23:26
1	B 249.677†	6126.2	5917.8	66.978	µg/L	66.978	ppb	18:23:06
1	Ba 233.527†	5018.6	5147.3	75.076	µg/L	75.076	ppb	18:23:06
1	Be 313.107†	-6268.9	472.9	0.2091	µg/L	0.2091	ppb	18:23:06
1	Cd 226.502†	-78.2	11.1	-0.0471	µg/L	-0.0471	ppb	18:23:26
1	Co 228.616†	-102.1	2.7	0.1088	µg/L	0.1088	ppb	18:23:26
1	Cr 267.716†	134.6	14.4	0.2836	µg/L	0.2836	ppb	18:23:26
1	Cu 324.752†	3586.2	-408.8	-2.6191	µg/L	-2.6191	ppb	18:23:06
1	Mn 257.610†	18501.8	18445.1	56.056	µg/L	56.056	ppb	18:23:06
1	Mo 202.031†	-14.5	-5.2	-0.4533	µg/L	-0.4533	ppb	18:23:26
1	Ni 231.604†	-21.0	16.6	0.5014	µg/L	0.5014	ppb	18:23:26
1	P 214.914†	-27.8	40.1	38.796	µg/L	38.796	ppb	18:23:26
1	Pb 220.353†	115.3	7.7	1.7266	µg/L	1.7266	ppb	18:23:26
1	S 181.975 Axial†	42.9	18.5	62.182	µg/L	62.182	ppb	18:23:26
1	Sb 206.836†	-0.9	-7.4	-4.6987	µg/L	-4.6987	ppb	18:23:26
1	Se 196.026†	10.5	-6.3	-8.30	µg/L	-8.30	ppb	18:23:26
1	SiO2†	11424.0	9618.8	1815.5	µg/L	1815.5	ppb	18:23:06
1	Si 251.611†	28869.4	28735.2	864.15	µg/L	864.15	ppb	18:23:06
1	Sn 189.927†	-14.0	-18.0	-6.0955	µg/L	-6.0955	ppb	18:23:26
1	Ti 334.940†	778.6	-736.2	-0.7405	µg/L	-0.7405	ppb	18:23:06
1	Tl 190.801†	-16.6	-0.9	-1.5000	µg/L	-1.5000	ppb	18:23:26
1	U 367.007†	288.9	-29.1	-20.365	µg/L	-20.365	ppb	18:23:06
1	V 292.402†	314.2	-29.0	0.0414	µg/L	0.0414	ppb	18:23:06
1	Zn 213.857†	624.8	104.9	1.1439	µg/L	1.1439	ppb	18:23:26
2	Sc RADIAL	21360.6	21360.6	99.4	%			18:22:05
2	Al 396.153Radial†	-91.0	4.7	15.242	µg/L	15.242	ppb	18:22:25
2	Ca 317.933Radial†	19620.4	19670.0	13322	µg/L	13322	ppb	18:22:05
2	Fe 238.204 Radial†	533.7	506.4	1717.8	µg/L	1717.8	ppb	18:22:25
2	K 766.490 Radial†	1407.5	735.9	955.06	µg/L	955.06	ppb	18:22:05
2	Mg 279.077 IEC†	554.8	554.9	3895.9	µg/L	3895.9	ppb	18:22:25
2	Na 589.592 Radial†	16169.2	16307.2	15700	µg/L	15700	ppb	18:22:05
2	Sr 421.552†	4596.1	4585.4	53.926	µg/L	53.926	ppb	18:22:05
2	Sc 361.383	1176475.3	1176475.3	98.312	%			18:23:28
2	Y 371.029	686948.2	686948.2	97.223	%			18:23:28
2	Ag 328.068†	699.2	65.0	0.0683	µg/L	0.0683	ppb	18:23:30
2	As 188.979†	-5.0	-2.4	-5.1981	µg/L	-5.1981	ppb	18:23:50

2	B 249.677†	6086.8	5936.1	67.287	µg/L	67.287	ppb	18:23:30
2	Ba 233.527†	5093.7	5271.6	76.889	µg/L	76.889	ppb	18:23:30
2	Be 313.107†	-6138.4	545.9	0.2414	µg/L	0.2414	ppb	18:23:30
2	Cd 226.502†	-71.8	16.9	0.0479	µg/L	0.0479	ppb	18:23:50
2	Co 228.616†	-115.6	-12.0	-0.3401	µg/L	-0.3401	ppb	18:23:50
2	Cr 267.716†	153.8	35.2	0.6508	µg/L	0.6508	ppb	18:23:50
2	Cu 324.752†	3567.8	-393.3	-2.4911	µg/L	-2.4911	ppb	18:23:30
2	Mn 257.610†	18699.5	18822.6	57.207	µg/L	57.207	ppb	18:23:30
2	Mo 202.031†	-22.2	-13.1	-1.4119	µg/L	-1.4119	ppb	18:23:50
2	Ni 231.604†	-22.7	14.7	0.4428	µg/L	0.4428	ppb	18:23:50
2	P 214.914†	-16.8	51.1	50.034	µg/L	50.034	ppb	18:23:50
2	Pb 220.353†	111.9	5.4	1.1481	µg/L	1.1481	ppb	18:23:50
2	S 181.975 Axial†	38.5	14.4	47.923	µg/L	47.923	ppb	18:23:50
2	Sb 206.836†	5.2	-1.3	-0.7820	µg/L	-0.7820	ppb	18:23:50
2	Se 196.026†	11.9	-4.8	-6.17	µg/L	-6.17	ppb	18:23:50
2	SiO2†	11658.6	9966.3	1881.1	µg/L	1881.1	ppb	18:23:30
2	Si 251.611†	29095.2	29240.3	879.34	µg/L	879.34	ppb	18:23:30
2	Sn 189.927†	-15.4	-19.6	-6.7147	µg/L	-6.7147	ppb	18:23:50
2	Ti 334.940†	806.9	-699.9	-0.6848	µg/L	-0.6848	ppb	18:23:30
2	Tl 190.801†	-11.3	4.3	5.6640	µg/L	5.6640	ppb	18:23:50
2	U 367.007†	419.4	106.4	22.024	µg/L	22.024	ppb	18:23:30
2	V 292.402†	302.3	-38.2	-0.0130	µg/L	-0.0130	ppb	18:23:30
2	Zn 213.857†	609.3	95.1	1.0160	µg/L	1.0160	ppb	18:23:50
3	Sc RADIAL	21106.8	21106.8	98.2	%			18:22:27
3	Al 396.153Radial†	-101.3	-6.9	-5.5491	µg/L	-5.5491	ppb	18:22:47
3	Ca 317.933Radial†	19532.0	19817.3	13421	µg/L	13421	ppb	18:22:27
3	Fe 238.204 Radial†	528.8	507.7	1722.4	µg/L	1722.4	ppb	18:22:47
3	K 766.490 Radial†	1524.0	871.5	1132.2	µg/L	1132.2	ppb	18:22:27
3	Mg 279.077 IEC†	549.6	556.3	3905.3	µg/L	3905.3	ppb	18:22:47
3	Na 589.592 Radial†	15979.2	16309.3	15703	µg/L	15703	ppb	18:22:27
3	Sr 421.552†	4589.3	4634.1	54.500	µg/L	54.500	ppb	18:22:27
3	Sc 361.383	1190340.3	1190340.3	99.470	%			18:23:53
3	Y 371.029	694989.4	694989.4	98.361	%			18:23:53
3	Ag 328.068†	510.9	-132.6	-1.3103	µg/L	-1.3103	ppb	18:23:55
3	As 188.979†	-4.3	-1.6	-3.4442	µg/L	-3.4442	ppb	18:24:15
3	B 249.677†	6292.4	6070.6	68.881	µg/L	68.881	ppb	18:23:55
3	Ba 233.527†	5178.6	5296.5	77.252	µg/L	77.252	ppb	18:23:55
3	Be 313.107†	-6315.8	440.3	0.1947	µg/L	0.1947	ppb	18:23:55
3	Cd 226.502†	-72.7	16.8	0.0464	µg/L	0.0464	ppb	18:24:15
3	Co 228.616†	-95.1	10.0	0.3328	µg/L	0.3328	ppb	18:24:15
3	Cr 267.716†	139.0	18.5	0.3497	µg/L	0.3497	ppb	18:24:15
3	Cu 324.752†	3587.1	-416.2	-2.6636	µg/L	-2.6636	ppb	18:23:55
3	Mn 257.610†	19161.7	19065.7	57.947	µg/L	57.947	ppb	18:23:55
3	Mo 202.031†	-12.7	-3.4	-0.2364	µg/L	-0.2364	ppb	18:24:15
3	Ni 231.604†	-25.0	12.6	0.3796	µg/L	0.3796	ppb	18:24:15
3	P 214.914†	-13.5	54.5	53.549	µg/L	53.549	ppb	18:24:15
3	Pb 220.353†	112.6	4.8	1.0420	µg/L	1.0420	ppb	18:24:15
3	S 181.975 Axial†	47.5	23.0	77.588	µg/L	77.588	ppb	18:24:15
3	Sb 206.836†	6.9	0.4	0.2752	µg/L	0.2752	ppb	18:24:15
3	Se 196.026†	16.9	0.2	0.841	µg/L	0.841	ppb	18:24:15
3	SiO2†	11816.8	9987.2	1885.0	µg/L	1885.0	ppb	18:23:55
3	Si 251.611†	29794.2	29598.2	890.09	µg/L	890.09	ppb	18:23:55
3	Sn 189.927†	-23.2	-27.3	-9.8049	µg/L	-9.8049	ppb	18:24:15
3	Ti 334.940†	850.1	-666.0	-0.6014	µg/L	-0.6014	ppb	18:23:55
3	Tl 190.801†	-13.2	2.5	3.2329	µg/L	3.2329	ppb	18:24:15
3	U 367.007†	346.4	28.1	-2.5186	µg/L	-2.5186	ppb	18:23:55
3	V 292.402†	260.5	-83.7	-0.3444	µg/L	-0.3444	ppb	18:23:55
3	Zn 213.857†	598.8	77.3	0.7804	µg/L	0.7804	ppb	18:24:15

Mean Data: 335304018|1339675|20

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1184807.6	99.008	%	0.6137				0.62%
Sc RADIAL	21300.9	99.1	%	0.80				0.81%
Y 371.029	691781.9	97.907	%	0.6029				0.62%
Ag 328.068†	-13.3	-0.4656	µg/L	0.74001	-0.4656	ppb	0.74001	158.95%
Al 396.153Radial†	-1.7	3.7764	µg/L	10.55947	3.7764	ppb	10.55947	279.62%
As 188.979†	-2.8	-6.0812	µg/L	3.17213	-6.0812	ppb	3.17213	52.16%
B 249.677†	5974.8	67.715	µg/L	1.0211	67.715	ppb	1.0211	1.51%
Ba 233.527†	5238.5	76.406	µg/L	1.1659	76.406	ppb	1.1659	1.53%

Be 313.107†	486.4	0.2151	µg/L	0.02391	0.2151	ppb	0.02391	11.12%
Ca 317.933Radial†	19651.1	13309	µg/L	119.4	13309	ppb	119.4	0.90%
Cd 226.502†	14.9	0.0157	µg/L	0.05439	0.0157	ppb	0.05439	345.58%
Co 228.616†	0.2	0.0338	µg/L	0.34264	0.0338	ppb	0.34264	>999.9%
Cr 267.716†	22.7	0.4280	µg/L	0.19570	0.4280	ppb	0.19570	45.72%
Cu 324.752†	-406.1	-2.5912	µg/L	0.08956	-2.5912	ppb	0.08956	3.46%
Fe 238.204 Radial†	507.8	1722.5	µg/L	4.71	1722.5	ppb	4.71	0.27%
K 766.490 Radial†	810.4	1052.4	µg/L	89.86	1052.4	ppb	89.86	8.54%
Mg 279.077 IEC†	557.2	3911.5	µg/L	19.51	3911.5	ppb	19.51	0.50%
Mn 257.610†	18777.8	57.070	µg/L	0.9527	57.070	ppb	0.9527	1.67%
Mo 202.031†	-7.2	-0.7005	µg/L	0.62553	-0.7005	ppb	0.62553	89.29%
Na 589.592 Radial†	16306.8	15700	µg/L	2.6	15700	ppb	2.6	0.02%
Ni 231.604†	14.6	0.4413	µg/L	0.06094	0.4413	ppb	0.06094	13.81%
P 214.914†	48.6	47.460	µg/L	7.7058	47.460	ppb	7.7058	16.24%
Pb 220.353†	6.0	1.3055	µg/L	0.36849	1.3055	ppb	0.36849	28.23%
S 181.975 Axial†	18.7	62.564	µg/L	14.8359	62.564	ppb	14.8359	23.71%
Sb 206.836†	-2.8	-1.7352	µg/L	2.62037	-1.7352	ppb	2.62037	151.01%
Se 196.026†	-3.6	-4.54	µg/L	4.782	-4.54	ppb	4.782	105.30%
SiO2†	9857.5	1860.5	µg/L	39.06	1860.5	ppb	39.06	2.10%
Si 251.611†	29191.2	877.86	µg/L	13.035	877.86	ppb	13.035	1.48%
Sn 189.927†	-21.6	-7.5384	µg/L	1.98712	-7.5384	ppb	1.98712	26.36%
Sr 421.552†	4582.7	53.895	µg/L	0.6212	53.895	ppb	0.6212	1.15%
Ti 334.940†	-700.7	-0.6756	µg/L	0.07003	-0.6756	ppb	0.07003	10.37%
Tl 190.801†	2.0	2.4656	µg/L	3.64309	2.4656	ppb	3.64309	147.75%
U 367.007†	35.1	-0.2864	µg/L	21.28245	-0.2864	ppb	21.28245	>999.9%
V 292.402†	-50.3	-0.1053	µg/L	0.20883	-0.1053	ppb	0.20883	198.25%
Zn 213.857†	92.4	0.9801	µg/L	0.18442	0.9801	ppb	0.18442	18.82%

Sequence No.: 2
Sample ID: 335304020|1339675|20
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 313
Date Collected: 11/7/2013 18:24:23
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 335304020|1339675|20

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20789.8	20789.8	96.8	%			18:24:56
1	Al 396.153Radial†	-85.4	7.9	20.795	µg/L	20.795	ppb	18:25:16
1	Ca 317.933Radial†	18257.8	18803.5	12735	µg/L	12735	ppb	18:24:56
1	Fe 238.204 Radial†	785.8	781.6	2651.5	µg/L	2651.5	ppb	18:25:16
1	K 766.490 Radial†	944.3	296.0	382.34	µg/L	382.34	ppb	18:24:56
1	Mg 279.077 IEC†	478.8	491.7	3452.1	µg/L	3452.1	ppb	18:25:16
1	Na 589.592 Radial†	11081.8	11495.6	11068	µg/L	11068	ppb	18:24:56
1	Sr 421.552†	2809.2	2865.5	33.665	µg/L	33.665	ppb	18:24:56
1	Sc 361.383	1225078.8	1225078.8	102.37	%			18:26:17
1	Y 371.029	716896.3	716896.3	101.46	%			18:26:17
1	Ag 328.068†	351.5	-302.8	-2.5155	µg/L	-2.5155	ppb	18:26:19
1	As 188.979†	-0.0	2.7	6.5390	µg/L	6.5390	ppb	18:26:39
1	B 249.677†	1856.6	1558.3	9.3211	µg/L	9.3211	ppb	18:26:19
1	Ba 233.527†	4923.8	4900.0	71.457	µg/L	71.457	ppb	18:26:39
1	Be 313.107†	-6240.5	693.9	0.3068	µg/L	0.3068	ppb	18:26:19
1	Cd 226.502†	-86.0	5.9	-0.2520	µg/L	-0.2520	ppb	18:26:39
1	Co 228.616†	-89.3	18.4	0.5778	µg/L	0.5778	ppb	18:26:39
1	Cr 267.716†	126.6	2.4	0.0772	µg/L	0.0772	ppb	18:26:39
1	Cu 324.752†	3714.2	-394.3	-2.3745	µg/L	-2.3745	ppb	18:26:19
1	Mn 257.610†	16122.9	15551.1	47.283	µg/L	47.283	ppb	18:26:19
1	Mo 202.031†	-17.4	-7.6	-0.7432	µg/L	-0.7432	ppb	18:26:39
1	Ni 231.604†	-20.0	18.2	0.5461	µg/L	0.5461	ppb	18:26:39
1	P 214.914†	-42.0	27.1	24.279	µg/L	24.279	ppb	18:26:39
1	Pb 220.353†	111.0	0.0	-0.0733	µg/L	-0.0733	ppb	18:26:39
1	S 181.975 Axial†	238.0	207.7	713.27	µg/L	713.27	ppb	18:26:39
1	Sb 206.836†	4.2	-2.4	-1.4790	µg/L	-1.4790	ppb	18:26:39
1	Se 196.026†	19.5	2.2	4.03	µg/L	4.03	ppb	18:26:39
1	SiO2†	12211.4	10035.9	1894.2	µg/L	1894.2	ppb	18:26:19
1	Si 251.611†	30696.4	29630.1	891.16	µg/L	891.16	ppb	18:26:19
1	Sn 189.927†	-16.3	-19.8	-6.8483	µg/L	-6.8483	ppb	18:26:39
1	Ti 334.940†	805.5	-733.9	-0.7733	µg/L	-0.7733	ppb	18:26:19
1	Tl 190.801†	-17.0	-0.8	-1.3346	µg/L	-1.3346	ppb	18:26:39
1	U 367.007†	401.0	71.5	6.5145	µg/L	6.5145	ppb	18:26:19
1	V 292.402†	301.8	-50.9	0.0378	µg/L	0.0378	ppb	18:26:19
1	Zn 213.857†	611.1	72.3	0.6280	µg/L	0.6280	ppb	18:26:39
2	Sc RADIAL	21465.2	21465.2	99.9	%			18:25:18
2	Al 396.153Radial†	-89.4	6.8	18.562	µg/L	18.562	ppb	18:25:38
2	Ca 317.933Radial†	18633.6	18586.0	12588	µg/L	12588	ppb	18:25:18
2	Fe 238.204 Radial†	782.3	752.6	2552.9	µg/L	2552.9	ppb	18:25:38
2	K 766.490 Radial†	949.4	270.4	349.06	µg/L	349.06	ppb	18:25:18
2	Mg 279.077 IEC†	481.6	478.9	3362.2	µg/L	3362.2	ppb	18:25:38
2	Na 589.592 Radial†	11226.1	11279.7	10860	µg/L	10860	ppb	18:25:18
2	Sr 421.552†	2812.3	2777.3	32.627	µg/L	32.627	ppb	18:25:18
2	Sc 361.383	1196078.9	1196078.9	99.950	%			18:26:41
2	Y 371.029	699998.4	699998.4	99.070	%			18:26:41
2	Ag 328.068†	603.8	-42.0	-0.6527	µg/L	-0.6527	ppb	18:26:43
2	As 188.979†	-4.0	-1.3	-2.6142	µg/L	-2.6142	ppb	18:27:04
2	B 249.677†	1972.5	1718.2	11.701	µg/L	11.701	ppb	18:26:43
2	Ba 233.527†	4748.5	4841.3	70.601	µg/L	70.601	ppb	18:27:04
2	Be 313.107†	-6094.4	692.2	0.3061	µg/L	0.3061	ppb	18:26:43
2	Cd 226.502†	-78.7	11.1	-0.1539	µg/L	-0.1539	ppb	18:27:04
2	Co 228.616†	-109.6	-4.1	-0.1069	µg/L	-0.1069	ppb	18:27:04
2	Cr 267.716†	89.9	-31.3	-0.5545	µg/L	-0.5545	ppb	18:27:04
2	Cu 324.752†	3544.8	-475.8	-2.9706	µg/L	-2.9706	ppb	18:26:43
2	Mn 257.610†	15607.4	15417.2	46.876	µg/L	46.876	ppb	18:26:43
2	Mo 202.031†	-4.3	5.2	0.7852	µg/L	0.7852	ppb	18:27:04
2	Ni 231.604†	-16.7	21.1	0.6352	µg/L	0.6352	ppb	18:27:04
2	P 214.914†	-51.6	16.6	13.577	µg/L	13.577	ppb	18:27:04
2	Pb 220.353†	97.0	-11.4	-2.6499	µg/L	-2.6499	ppb	18:27:04

2	S 181.975 Axial†	234.1	209.5	719.48	µg/L	719.48	ppb	18:27:04
2	Sb 206.836†	7.9	1.3	0.9294	µg/L	0.9294	ppb	18:27:04
2	Se 196.026†	21.5	4.7	7.49	µg/L	7.49	ppb	18:27:04
2	SiO2†	11769.8	9883.2	1865.4	µg/L	1865.4	ppb	18:26:43
2	Si 251.611†	29738.0	29398.3	884.16	µg/L	884.16	ppb	18:26:43
2	Sn 189.927†	-15.9	-19.8	-6.8606	µg/L	-6.8606	ppb	18:27:04
2	Ti 334.940†	848.4	-671.9	-0.6531	µg/L	-0.6531	ppb	18:26:43
2	Tl 190.801†	-13.6	2.2	2.8307	µg/L	2.8307	ppb	18:27:04
2	U 367.007†	344.8	24.8	-7.5613	µg/L	-7.5613	ppb	18:26:43
2	V 292.402†	289.4	-56.1	-0.0065	µg/L	-0.0065	ppb	18:26:43
2	Zn 213.857†	612.9	88.6	0.8560	µg/L	0.8560	ppb	18:27:04
3	Sc RADIAL	21507.0	21507.0	100	%			18:25:40
3	Al 396.153Radial†	-87.4	8.9	22.366	µg/L	22.366	ppb	18:26:00
3	Ca 317.933Radial†	18732.8	18648.9	12630	µg/L	12630	ppb	18:25:40
3	Fe 238.204 Radial†	778.7	747.4	2535.5	µg/L	2535.5	ppb	18:26:00
3	K 766.490 Radial†	941.8	260.9	336.68	µg/L	336.68	ppb	18:25:40
3	Mg 279.077 IEC†	473.0	469.4	3295.4	µg/L	3295.4	ppb	18:26:00
3	Na 589.592 Radial†	11302.1	11333.8	10912	µg/L	10912	ppb	18:25:40
3	Sr 421.552†	2885.3	2844.7	33.421	µg/L	33.421	ppb	18:25:40
3	Sc 361.383	1107552.7	1107552.7	92.552	%			18:27:06
3	Y 371.029	648453.8	648453.8	91.775	%			18:27:06
3	Ag 328.068†	713.6	124.9	0.5283	µg/L	0.5283	ppb	18:27:08
3	As 188.979†	-4.0	-1.6	-3.1367	µg/L	-3.1367	ppb	18:27:28
3	B 249.677†	1720.0	1603.2	10.336	µg/L	10.336	ppb	18:27:08
3	Ba 233.527†	4708.4	5177.7	75.511	µg/L	75.511	ppb	18:27:28
3	Be 313.107†	-5915.5	398.2	0.1761	µg/L	0.1761	ppb	18:27:08
3	Cd 226.502†	-76.9	6.8	-0.2215	µg/L	-0.2215	ppb	18:27:28
3	Co 228.616†	-93.4	4.7	0.1608	µg/L	0.1608	ppb	18:27:28
3	Cr 267.716†	128.1	17.2	0.3657	µg/L	0.3657	ppb	18:27:28
3	Cu 324.752†	3490.7	-250.8	-1.3889	µg/L	-1.3889	ppb	18:27:08
3	Mn 257.610†	14488.1	15456.0	46.997	µg/L	46.997	ppb	18:27:08
3	Mo 202.031†	-19.2	-11.4	-1.2070	µg/L	-1.2070	ppb	18:27:28
3	Ni 231.604†	-23.0	12.9	0.3827	µg/L	0.3827	ppb	18:27:28
3	P 214.914†	-37.7	27.4	24.670	µg/L	24.670	ppb	18:27:28
3	Pb 220.353†	103.5	3.4	0.7018	µg/L	0.7018	ppb	18:27:28
3	S 181.975 Axial†	230.6	224.4	770.84	µg/L	770.84	ppb	18:27:28
3	Sb 206.836†	6.8	0.8	0.5563	µg/L	0.5563	ppb	18:27:28
3	Se 196.026†	10.1	-5.9	-7.46	µg/L	-7.46	ppb	18:27:28
3	SiO2†	11074.2	10072.9	1901.2	µg/L	1901.2	ppb	18:27:08
3	Si 251.611†	27688.7	29562.2	889.11	µg/L	889.11	ppb	18:27:08
3	Sn 189.927†	-10.1	-14.8	-4.8473	µg/L	-4.8473	ppb	18:27:28
3	Ti 334.940†	911.4	-535.9	-0.3878	µg/L	-0.3878	ppb	18:27:08
3	Tl 190.801†	-16.0	-1.5	-2.3044	µg/L	-2.3044	ppb	18:27:28
3	U 367.007†	317.7	23.0	-8.0206	µg/L	-8.0206	ppb	18:27:08
3	V 292.402†	371.3	55.6	0.7808	µg/L	0.7808	ppb	18:27:08
3	Zn 213.857†	613.0	137.6	1.5099	µg/L	1.5099	ppb	18:27:28

Mean Data: 335304020|1339675|20

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1176236.8	98.292	%	5.1162				5.21%
Sc RADIAL	21254.0	98.9	%	1.87				1.89%
Y 371.029	688449.5	97.435	%	5.0459				5.18%
Ag 328.068†	-73.3	-0.8800	µg/L	1.53454	-0.8800	ppb	1.53454	174.38%
Al 396.153Radial†	7.9	20.575	µg/L	1.9118	20.575	ppb	1.9118	9.29%
As 188.979†	-0.1	0.2627	µg/L	5.44172	0.2627	ppb	5.44172	>999.9%
B 249.677†	1626.6	10.453	µg/L	1.1944	10.453	ppb	1.1944	11.43%
Ba 233.527†	4973.0	72.523	µg/L	2.6228	72.523	ppb	2.6228	3.62%
Be 313.107†	594.8	0.2630	µg/L	0.07527	0.2630	ppb	0.07527	28.62%
Ca 317.933Radial†	18679.5	12651	µg/L	75.8	12651	ppb	75.8	0.60%
Cd 226.502†	7.9	-0.2091	µg/L	0.05018	-0.2091	ppb	0.05018	24.00%
Co 228.616†	6.3	0.2106	µg/L	0.34503	0.2106	ppb	0.34503	163.86%
Cr 267.716†	-3.9	-0.0372	µg/L	0.47061	-0.0372	ppb	0.47061	>999.9%
Cu 324.752†	-373.6	-2.2447	µg/L	0.79879	-2.2447	ppb	0.79879	35.59%
Fe 238.204 Radial†	760.5	2580.0	µg/L	62.53	2580.0	ppb	62.53	2.42%
K 766.490 Radial†	275.8	356.03	µg/L	23.614	356.03	ppb	23.614	6.63%
Mg 279.077 IEC†	480.0	3369.9	µg/L	78.61	3369.9	ppb	78.61	2.33%
Mn 257.610†	15474.7	47.052	µg/L	0.2089	47.052	ppb	0.2089	0.44%
Mo 202.031†	-4.6	-0.3883	µg/L	1.04244	-0.3883	ppb	1.04244	268.45%
Na 589.592 Radial†	11369.7	10947	µg/L	108.1	10947	ppb	108.1	0.99%

Ni 231.604†	17.4	0.5213	µg/L	0.12803	0.5213	ppb	0.12803	24.56%
P 214.914†	23.7	20.842	µg/L	6.2944	20.842	ppb	6.2944	30.20%
Pb 220.353†	-2.7	-0.6738	µg/L	1.75467	-0.6738	ppb	1.75467	260.42%
S 181.975 Axial†	213.9	734.53	µg/L	31.599	734.53	ppb	31.599	4.30%
Sb 206.836†	-0.1	0.0022	µg/L	1.29628	0.0022	ppb	1.29628	>999.9%
Se 196.026†	0.3	1.35	µg/L	7.828	1.35	ppb	7.828	578.06%
SiO2†	9997.4	1886.9	µg/L	18.99	1886.9	ppb	18.99	1.01%
Si 251.611†	29530.2	888.15	µg/L	3.600	888.15	ppb	3.600	0.41%
Sn 189.927†	-18.1	-6.1854	µg/L	1.15883	-6.1854	ppb	1.15883	18.73%
Sr 421.552†	2829.1	33.238	µg/L	0.5430	33.238	ppb	0.5430	1.63%
Ti 334.940†	-647.2	-0.6047	µg/L	0.19726	-0.6047	ppb	0.19726	32.62%
Tl 190.801†	-0.0	-0.2694	µg/L	2.72823	-0.2694	ppb	2.72823	>999.9%
U 367.007†	39.8	-3.0225	µg/L	8.26242	-3.0225	ppb	8.26242	273.37%
V 292.402†	-17.1	0.2707	µg/L	0.44230	0.2707	ppb	0.44230	163.40%
Zn 213.857†	99.5	0.9980	µg/L	0.45777	0.9980	ppb	0.45777	45.87%

Sequence No.: 3 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 11/7/2013 18:27:36**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	21339.5	21339.5	99.3	%			18:28:08
1	Al 396.153Radial†	3418.0	3538.0	6322.9	µg/L	6322.9	ppb	18:28:28
1	Ca 317.933Radial†	7611.0	7596.8	5144.0	µg/L	5144.0	ppb	18:28:28
1	Fe 238.204 Radial†	1556.8	1537.1	5198.5	µg/L	5198.5	ppb	18:28:28
1	K 766.490 Radial†	4806.4	4159.8	5438.5	µg/L	5438.5	ppb	18:28:08
1	Mg 279.077 IEC†	754.5	756.5	5311.7	µg/L	5311.7	ppb	18:28:28
1	Na 589.592 Radial†	14692.9	14836.7	14285	µg/L	14285	ppb	18:28:08
1	Sr 421.552†	43605.3	43869.8	516.88	µg/L	516.88	ppb	18:28:08
1	Sc 361.383	1216361.1	1216361.1	101.64	%			18:29:29
1	Y 371.029	704973.3	704973.3	99.774	%			18:29:29
1	Ag 328.068†	75542.7	73674.2	522.32	µg/L	522.32	ppb	18:29:31
1	As 188.979†	206.8	206.1	476.67	µg/L	476.67	ppb	18:29:51
1	B 249.677†	41125.0	40204.4	482.24	µg/L	482.24	ppb	18:29:31
1	Ba 233.527†	35297.7	34817.0	509.31	µg/L	509.31	ppb	18:29:31
1	Be 313.107†	1138665.6	1127030.9	498.34	µg/L	498.34	ppb	18:29:29
1	Cd 226.502†	31618.5	31196.8	503.69	µg/L	503.69	ppb	18:29:31
1	Co 228.616†	16850.8	16683.8	509.39	µg/L	509.39	ppb	18:29:31
1	Cr 267.716†	27261.3	26699.0	506.23	µg/L	506.23	ppb	18:29:31
1	Cu 324.752†	77628.4	72349.9	510.24	µg/L	510.24	ppb	18:29:31
1	Mn 257.610†	170633.2	167674.2	510.47	µg/L	510.47	ppb	18:29:31
1	Mo 202.031†	4335.4	4274.7	514.76	µg/L	514.76	ppb	18:29:51
1	Ni 231.604†	16795.8	16561.7	509.92	µg/L	509.92	ppb	18:29:31
1	P 214.914†	2532.9	2560.1	2604.6	µg/L	2604.6	ppb	18:29:51
1	Pb 220.353†	2381.3	2234.4	508.70	µg/L	508.70	ppb	18:29:51
1	S 181.975 Axial†	329.4	299.3	1025.4	µg/L	1025.4	ppb	18:29:51
1	Sb 206.836†	847.4	827.1	526.89	µg/L	526.89	ppb	18:29:51
1	Se 196.026†	383.4	360.4	512	µg/L	512	ppb	18:29:51
1	SiO2†	30641.2	28253.0	5342.4	µg/L	5342.4	ppb	18:29:31
1	Si 251.611†	84827.6	83100.3	2492.1	µg/L	2492.1	ppb	18:29:31
1	Sn 189.927†	1326.7	1301.3	526.76	µg/L	526.76	ppb	18:29:51
1	Ti 334.940†	269218.7	263341.9	508.74	µg/L	508.74	ppb	18:29:31
1	Tl 190.801†	343.7	354.0	485.16	µg/L	485.16	ppb	18:29:51
1	U 367.007†	1920.4	1569.2	460.80	µg/L	460.80	ppb	18:29:31
1	V 292.402†	71182.0	69684.6	515.41	µg/L	515.41	ppb	18:29:31
1	Zn 213.857†	39605.1	38439.6	506.29	µg/L	506.29	ppb	18:29:31
2	Sc RADIAL	21643.6	21643.6	101	%			18:28:30
2	Al 396.153Radial†	3398.7	3470.4	6202.2	µg/L	6202.2	ppb	18:28:50
2	Ca 317.933Radial†	7584.3	7462.6	5053.2	µg/L	5053.2	ppb	18:28:50
2	Fe 238.204 Radial†	1553.5	1511.8	5113.1	µg/L	5113.1	ppb	18:28:50
2	K 766.490 Radial†	4785.5	4071.0	5322.2	µg/L	5322.2	ppb	18:28:30
2	Mg 279.077 IEC†	759.7	751.0	5272.9	µg/L	5272.9	ppb	18:28:50
2	Na 589.592 Radial†	14856.9	14791.6	14241	µg/L	14241	ppb	18:28:30
2	Sr 421.552†	44490.4	44131.6	519.97	µg/L	519.97	ppb	18:28:30
2	Sc 361.383	1241131.3	1241131.3	103.71	%			18:29:54
2	Y 371.029	719599.8	719599.8	101.84	%			18:29:54
2	Ag 328.068†	74059.6	70761.0	501.68	µg/L	501.68	ppb	18:29:56
2	As 188.979†	209.4	204.6	473.06	µg/L	473.06	ppb	18:30:16
2	B 249.677†	40475.5	38770.6	464.63	µg/L	464.63	ppb	18:29:56
2	Ba 233.527†	34625.1	33475.3	489.68	µg/L	489.68	ppb	18:29:56
2	Be 313.107†	1163475.2	1128594.4	499.04	µg/L	499.04	ppb	18:29:54
2	Cd 226.502†	31175.1	30148.4	486.75	µg/L	486.75	ppb	18:29:56
2	Co 228.616†	16501.7	16016.3	489.01	µg/L	489.01	ppb	18:29:56
2	Cr 267.716†	26984.2	25896.5	491.03	µg/L	491.03	ppb	18:29:56
2	Cu 324.752†	76050.7	69304.5	488.77	µg/L	488.77	ppb	18:29:56
2	Mn 257.610†	167488.0	161291.3	491.04	µg/L	491.04	ppb	18:29:56
2	Mo 202.031†	4305.0	4160.3	500.99	µg/L	500.99	ppb	18:30:16
2	Ni 231.604†	16563.7	16008.2	492.88	µg/L	492.88	ppb	18:29:56
2	P 214.914†	2487.9	2466.9	2509.7	µg/L	2509.7	ppb	18:30:16
2	Pb 220.353†	2361.9	2168.9	493.81	µg/L	493.81	ppb	18:30:16

2	S 181.975 Axial†	317.5	281.4	963.92 µg/L	963.92 ppb	18:30:16
2	Sb 206.836†	835.7	799.3	509.14 µg/L	509.14 ppb	18:30:16
2	Se 196.026†	378.3	347.9	494 µg/L	494 ppb	18:30:16
2	SiO2†	30041.6	27073.2	5119.5 µg/L	5119.5 ppb	18:29:56
2	Si 251.611†	83463.7	80119.7	2402.7 µg/L	2402.7 ppb	18:29:56
2	Sn 189.927†	1311.4	1260.5	510.26 µg/L	510.26 ppb	18:30:16
2	Ti 334.940†	264640.8	253641.9	490.01 µg/L	490.01 ppb	18:29:56
2	Tl 190.801†	338.5	342.2	469.07 µg/L	469.07 ppb	18:30:16
2	U 367.007†	1863.5	1476.6	432.38 µg/L	432.38 ppb	18:29:56
2	V 292.402†	69934.2	67083.8	496.25 µg/L	496.25 ppb	18:29:56
2	Zn 213.857†	38901.7	36983.7	487.09 µg/L	487.09 ppb	18:29:56
3	Sc RADIAL	21064.2	21064.2	98.0 %		18:28:52
3	Al 396.153Radial†	3372.7	3536.7	6320.6 µg/L	6320.6 ppb	18:29:12
3	Ca 317.933Radial†	7548.6	7633.3	5168.7 µg/L	5168.7 ppb	18:29:12
3	Fe 238.204 Radial†	1550.0	1550.6	5244.3 µg/L	5244.3 ppb	18:29:12
3	K 766.490 Radial†	4790.7	4207.0	5500.3 µg/L	5500.3 ppb	18:28:52
3	Mg 279.077 IEC†	746.0	757.8	5320.7 µg/L	5320.7 ppb	18:29:12
3	Na 589.592 Radial†	14597.7	14932.9	14377 µg/L	14377 ppb	18:28:52
3	Sr 421.552†	43553.3	44390.6	523.02 µg/L	523.02 ppb	18:28:52
3	Sc 361.383	1203780.0	1203780.0	100.59 %		18:30:18
3	Y 371.029	698378.1	698378.1	98.840 %		18:30:18
3	Ag 328.068†	75427.0	74336.0	527.02 µg/L	527.02 ppb	18:30:20
3	As 188.979†	213.7	215.2	497.31 µg/L	497.31 ppb	18:30:40
3	B 249.677†	41115.1	40617.4	487.22 µg/L	487.22 ppb	18:30:20
3	Ba 233.527†	35345.1	35227.0	515.30 µg/L	515.30 ppb	18:30:20
3	Be 313.107†	1125150.1	1125303.1	497.58 µg/L	497.58 ppb	18:30:18
3	Cd 226.502†	31722.9	31625.6	510.61 µg/L	510.61 ppb	18:30:20
3	Co 228.616†	16779.6	16786.2	512.51 µg/L	512.51 ppb	18:30:20
3	Cr 267.716†	27245.7	26963.7	511.26 µg/L	511.26 ppb	18:30:20
3	Cu 324.752†	77719.8	73239.0	516.50 µg/L	516.50 ppb	18:30:20
3	Mn 257.610†	170652.2	169447.6	515.87 µg/L	515.87 ppb	18:30:20
3	Mo 202.031†	4338.8	4322.6	520.54 µg/L	520.54 ppb	18:30:40
3	Ni 231.604†	16785.5	16724.2	514.93 µg/L	514.93 ppb	18:30:20
3	P 214.914†	2530.7	2583.9	2628.8 µg/L	2628.8 ppb	18:30:40
3	Pb 220.353†	2382.6	2260.1	514.55 µg/L	514.55 ppb	18:30:40
3	S 181.975 Axial†	332.0	305.3	1046.1 µg/L	1046.1 ppb	18:30:40
3	Sb 206.836†	838.7	827.2	526.95 µg/L	526.95 ppb	18:30:40
3	Se 196.026†	385.2	366.1	520 µg/L	520 ppb	18:30:40
3	SiO2†	30646.6	28573.4	5403.0 µg/L	5403.0 ppb	18:30:20
3	Si 251.611†	84970.6	84114.7	2522.6 µg/L	2522.6 ppb	18:30:20
3	Sn 189.927†	1329.0	1317.3	533.23 µg/L	533.23 ppb	18:30:40
3	Ti 334.940†	269500.6	266390.3	514.63 µg/L	514.63 ppb	18:30:20
3	Tl 190.801†	336.2	350.1	479.71 µg/L	479.71 ppb	18:30:40
3	U 367.007†	1901.0	1569.6	460.68 µg/L	460.68 ppb	18:30:20
3	V 292.402†	71251.6	70485.7	521.32 µg/L	521.32 ppb	18:30:20
3	Zn 213.857†	39735.0	38976.0	513.37 µg/L	513.37 ppb	18:30:20

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1220424.1	101.98	%	1.588				1.56%
Sc RADIAL	21349.1	99.4	%	1.35				1.36%
Y 371.029	707650.4	100.15	%	1.537				1.53%
Ag 328.068†	72923.7	517.01	µg/L	13.481	517.01	ppb	13.481	2.61%
QC value within limits for Ag 328.068 Recovery = 103.40%								
Al 396.153Radial†	3515.0	6281.9	µg/L	69.06	6281.9	ppb	69.06	1.10%
QC value greater than the upper limit for Al 396.153Radial Recovery = 125.64%								
As 188.979†	208.6	482.35	µg/L	13.086	482.35	ppb	13.086	2.71%
QC value within limits for As 188.979 Recovery = 96.47%								
B 249.677†	39864.1	478.03	µg/L	11.868	478.03	ppb	11.868	2.48%
QC value within limits for B 249.677 Recovery = 95.61%								
Ba 233.527†	34506.4	504.76	µg/L	13.402	504.76	ppb	13.402	2.66%
QC value within limits for Ba 233.527 Recovery = 100.95%								
Be 313.107†	1126976.1	498.32	µg/L	0.728	498.32	ppb	0.728	0.15%
QC value within limits for Be 313.107 Recovery = 99.66%								
Ca 317.933Radial†	7564.2	5122.0	µg/L	60.85	5122.0	ppb	60.85	1.19%
QC value within limits for Ca 317.933Radial Recovery = 102.44%								
Cd 226.502†	30990.2	500.35	µg/L	12.277	500.35	ppb	12.277	2.45%
QC value within limits for Cd 226.502 Recovery = 100.07%								
Co 228.616†	16495.4	503.64	µg/L	12.762	503.64	ppb	12.762	2.53%

```
   QC value within limits for Co 228.616  Recovery = 100.73%
Cr 267.716†            26519.7      502.84 µg/L        10.532      502.84 ppb         10.532   2.09%
   QC value within limits for Cr 267.716  Recovery = 100.57%
Cu 324.752†            71631.1      505.17 µg/L        14.541      505.17 ppb         14.541   2.88%
   QC value within limits for Cu 324.752  Recovery = 101.03%
Fe 238.204 Radial†      1533.2      5185.3 µg/L         66.58      5185.3 ppb          66.58   1.28%
   QC value within limits for Fe 238.204 Radial  Recovery = 103.71%
K 766.490 Radial†       4145.9      5420.3 µg/L         90.47      5420.3 ppb          90.47   1.67%
   QC value within limits for K 766.490 Radial  Recovery = 108.41%
Mg 279.077 IEC†          755.1      5301.8 µg/L         25.40      5301.8 ppb          25.40   0.48%
   QC value within limits for Mg 279.077 IEC  Recovery = 106.04%
Mn 257.610†           166137.7      505.79 µg/L        13.062      505.79 ppb         13.062   2.58%
   QC value within limits for Mn 257.610  Recovery = 101.16%
Mo 202.031†             4252.5      512.10 µg/L        10.041      512.10 ppb         10.041   1.96%
   QC value within limits for Mo 202.031  Recovery = 102.42%
Na 589.592 Radial†     14853.8       14301 µg/L          69.5       14301 ppb           69.5   0.49%
   QC value greater than the upper limit for Na 589.592 Radial  Recovery = 143.01%
Ni 231.604†            16431.4      505.91 µg/L        11.558      505.91 ppb         11.558   2.28%
   QC value within limits for Ni 231.604  Recovery = 101.18%
P 214.914†              2537.0      2581.1 µg/L         62.95      2581.1 ppb          62.95   2.44%
   QC value within limits for P 214.914  Recovery = 103.24%
Pb 220.353†             2221.1      505.69 µg/L        10.698      505.69 ppb         10.698   2.12%
   QC value within limits for Pb 220.353  Recovery = 101.14%
S 181.975 Axial†         295.3      1011.8 µg/L         42.75      1011.8 ppb          42.75   4.23%
   QC value within limits for S 181.975 Axial  Recovery = 101.18%
Sb 206.836†              817.9      520.99 µg/L        10.265      520.99 ppb         10.265   1.97%
   QC value within limits for Sb 206.836  Recovery = 104.20%
Se 196.026†              358.1         508 µg/L          13.2         508 ppb           13.2   2.59%
   QC value within limits for Se 196.026  Recovery = 101.70%
SiO2†                  27966.5      5288.3 µg/L        149.32      5288.3 ppb         149.32   2.82%
   QC value within limits for SiO2  Recovery = 98.89%
Si 251.611†            82444.9      2472.5 µg/L         62.31      2472.5 ppb          62.31   2.52%
   QC value within limits for Si 251.611  Recovery = 98.90%
Sn 189.927†             1293.0      523.42 µg/L        11.843      523.42 ppb         11.843   2.26%
   QC value within limits for Sn 189.927  Recovery = 104.68%
Sr 421.552†            44130.7      519.96 µg/L         3.068      519.96 ppb          3.068   0.59%
   QC value within limits for Sr 421.552  Recovery = 103.99%
Ti 334.940†           261124.7      504.46 µg/L        12.856      504.46 ppb         12.856   2.55%
   QC value within limits for Ti 334.940  Recovery = 100.89%
Tl 190.801†              348.8      477.98 µg/L         8.182      477.98 ppb          8.182   1.71%
   QC value within limits for Tl 190.801  Recovery = 95.60%
U 367.007†              1538.5      451.28 µg/L        16.374      451.28 ppb         16.374   3.63%
   QC value within limits for U 367.007  Recovery = 90.26%
V 292.402†             69084.7      510.99 µg/L        13.104      510.99 ppb         13.104   2.56%
   QC value within limits for V 292.402  Recovery = 102.20%
Zn 213.857†            38133.1      502.25 µg/L        13.599      502.25 ppb         13.599   2.71%
   QC value within limits for Zn 213.857  Recovery = 100.45%
QC Failed.  Continue with analysis.
```

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

Autosampler Location: 8
Date Collected: 11/7/2013 18:30:49
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	20969.6	20969.6	97.6	%			18:31:36
1	Al 396.153Radial†	-83.3	10.8	19.388	µg/L	19.388	ppb	18:31:36
1	Ca 317.933Radial†	69.1	3.9	2.6163	µg/L	2.6163	ppb	18:31:56
1	Fe 238.204 Radial†	26.2	-3.7	-12.451	µg/L	-12.451	ppb	18:31:56
1	K 766.490 Radial†	613.8	-51.0	-66.676	µg/L	-66.676	ppb	18:31:36
1	Mg 279.077 IEC†	2.3	-0.8	-5.9158	µg/L	-5.9158	ppb	18:31:56
1	Na 589.592 Radial†	-18.2	23.3	22.399	µg/L	22.399	ppb	18:31:36
1	Sr 421.552†	70.3	34.0	0.4007	µg/L	0.4007	ppb	18:31:36
1	Sc 361.383	1188836.9	1188836.9	99.345	%			18:33:34
1	Y 371.029	703055.1	703055.1	99.502	%			18:33:34
1	Ag 328.068†	734.5	93.2	0.6700	µg/L	0.6700	ppb	18:33:36
1	As 188.979†	-2.3	0.4	0.9261	µg/L	0.9261	ppb	18:33:56
1	B 249.677†	328.1	75.0	1.0109	µg/L	1.0109	ppb	18:33:56
1	Ba 233.527†	-98.8	-9.0	-0.1315	µg/L	-0.1315	ppb	18:33:56
1	Be 313.107†	-6372.2	375.5	0.1660	µg/L	0.1660	ppb	18:33:36
1	Cd 226.502†	-74.5	14.8	0.2414	µg/L	0.2414	ppb	18:33:56
1	Co 228.616†	-103.0	1.9	0.0582	µg/L	0.0582	ppb	18:33:56
1	Cr 267.716†	121.4	1.0	0.0273	µg/L	0.0273	ppb	18:33:56
1	Cu 324.752†	3804.9	-192.4	-1.3615	µg/L	-1.3615	ppb	18:33:36
1	Mn 257.610†	189.9	-6.9	-0.0211	µg/L	-0.0211	ppb	18:33:56
1	Mo 202.031†	-14.5	-5.1	-0.6165	µg/L	-0.6165	ppb	18:33:56
1	Ni 231.604†	-37.8	-0.3	-0.0106	µg/L	-0.0106	ppb	18:33:56
1	P 214.914†	-61.2	6.5	6.7086	µg/L	6.7086	ppb	18:33:56
1	Pb 220.353†	92.8	-15.1	-3.4075	µg/L	-3.4075	ppb	18:33:56
1	S 181.975 Axial†	25.4	0.8	2.7969	µg/L	2.7969	ppb	18:33:56
1	Sb 206.836†	8.5	2.0	1.2810	µg/L	1.2810	ppb	18:33:56
1	Se 196.026†	12.8	-4.0	-5.60	µg/L	-5.60	ppb	18:33:56
1	SiO2†	1804.4	-76.1	-14.362	µg/L	-14.362	ppb	18:33:56
1	Si 251.611†	382.5	30.4	0.9200	µg/L	0.9200	ppb	18:33:56
1	Sn 189.927†	-0.3	-4.2	-1.6934	µg/L	-1.6934	ppb	18:33:56
1	Ti 334.940†	1390.2	-121.3	-0.2276	µg/L	-0.2276	ppb	18:33:36
1	Tl 190.801†	-16.2	-0.5	-0.6396	µg/L	-0.6396	ppb	18:33:56
1	U 367.007†	276.5	-41.8	-13.009	µg/L	-13.009	ppb	18:33:36
1	V 292.402†	338.7	-4.7	-0.0508	µg/L	-0.0508	ppb	18:33:36
1	Zn 213.857†	532.7	11.6	0.1560	µg/L	0.1560	ppb	18:33:56
2	Sc RADIAL	20801.2	20801.2	96.8	%			18:32:16
2	Al 396.153Radial†	-90.1	3.2	5.6772	µg/L	5.6772	ppb	18:32:16
2	Ca 317.933Radial†	80.1	15.7	10.672	µg/L	10.672	ppb	18:32:36
2	Fe 238.204 Radial†	26.4	-3.3	-11.193	µg/L	-11.193	ppb	18:32:36
2	K 766.490 Radial†	620.6	-38.9	-50.871	µg/L	-50.871	ppb	18:32:16
2	Mg 279.077 IEC†	-6.2	-9.6	-67.453	µg/L	-67.453	ppb	18:32:36
2	Na 589.592 Radial†	-13.8	27.6	26.540	µg/L	26.540	ppb	18:32:16
2	Sr 421.552†	45.5	9.0	0.1063	µg/L	0.1063	ppb	18:32:16
2	Sc 361.383	1210434.6	1210434.6	101.15	%			18:33:58
2	Y 371.029	716158.3	716158.3	101.36	%			18:33:58
2	Ag 328.068†	586.3	-66.6	-0.4706	µg/L	-0.4706	ppb	18:34:01
2	As 188.979†	-3.6	-0.9	-2.0146	µg/L	-2.0146	ppb	18:34:21
2	B 249.677†	298.7	40.1	0.5647	µg/L	0.5647	ppb	18:34:21
2	Ba 233.527†	-107.2	-15.6	-0.2269	µg/L	-0.2269	ppb	18:34:21
2	Be 313.107†	-6442.6	420.3	0.1858	µg/L	0.1858	ppb	18:34:01
2	Cd 226.502†	-76.4	14.3	0.2327	µg/L	0.2327	ppb	18:34:21
2	Co 228.616†	-100.2	6.5	0.2001	µg/L	0.2001	ppb	18:34:21
2	Cr 267.716†	125.5	2.9	0.0548	µg/L	0.0548	ppb	18:34:21
2	Cu 324.752†	3831.6	-234.3	-1.6508	µg/L	-1.6508	ppb	18:34:01
2	Mn 257.610†	187.3	-12.9	-0.0370	µg/L	-0.0370	ppb	18:34:21
2	Mo 202.031†	-6.6	2.9	0.3446	µg/L	0.3446	ppb	18:34:21
2	Ni 231.604†	-41.0	-2.8	-0.0866	µg/L	-0.0866	ppb	18:34:21
2	P 214.914†	-52.9	15.9	16.282	µg/L	16.282	ppb	18:34:21
2	Pb 220.353†	96.8	-12.8	-2.8937	µg/L	-2.8937	ppb	18:34:21

2	S 181.975 Axial†	25.6	0.6	2.0341	µg/L	2.0341	ppb	18:34:21
2	Sb 206.836†	6.1	-0.5	-0.3011	µg/L	-0.3011	ppb	18:34:21
2	Se 196.026†	9.9	-7.0	-9.99	µg/L	-9.99	ppb	18:34:21
2	SiO2†	1795.2	-117.7	-22.210	µg/L	-22.210	ppb	18:34:21
2	Si 251.611†	373.3	14.4	0.4274	µg/L	0.4274	ppb	18:34:21
2	Sn 189.927†	1.6	-2.3	-0.9350	µg/L	-0.9350	ppb	18:34:21
2	Ti 334.940†	1432.5	-104.5	-0.2009	µg/L	-0.2009	ppb	18:34:01
2	Tl 190.801†	-15.7	0.3	0.4071	µg/L	0.4071	ppb	18:34:21
2	U 367.007†	322.8	-1.1	-0.2727	µg/L	-0.2727	ppb	18:34:01
2	V 292.402†	341.4	-8.1	-0.0566	µg/L	-0.0566	ppb	18:34:01
2	Zn 213.857†	527.1	-3.6	-0.0432	µg/L	-0.0432	ppb	18:34:21
3	Sc RADIAL	20730.3	20730.3	96.5	%			18:32:56
3	Al 396.153Radial†	-90.4	2.5	4.4251	µg/L	4.4251	ppb	18:32:56
3	Ca 317.933Radial†	78.3	14.1	9.5698	µg/L	9.5698	ppb	18:33:16
3	Fe 238.204 Radial†	28.2	-1.3	-4.5148	µg/L	-4.5148	ppb	18:33:16
3	K 766.490 Radial†	622.3	-34.9	-45.643	µg/L	-45.643	ppb	18:32:56
3	Mg 279.077 IEC†	8.1	5.2	36.585	µg/L	36.585	ppb	18:33:16
3	Na 589.592 Radial†	-24.4	16.6	15.996	µg/L	15.996	ppb	18:32:56
3	Sr 421.552†	49.1	12.9	0.1525	µg/L	0.1525	ppb	18:32:56
3	Sc 361.383	1179096.7	1179096.7	98.531	%			18:34:23
3	Y 371.029	697400.0	697400.0	98.702	%			18:34:23
3	Ag 328.068†	672.1	36.0	0.2653	µg/L	0.2653	ppb	18:34:25
3	As 188.979†	-1.1	1.6	3.6050	µg/L	3.6050	ppb	18:34:45
3	B 249.677†	273.7	22.6	0.3180	µg/L	0.3180	ppb	18:34:45
3	Ba 233.527†	-99.9	-11.0	-0.1607	µg/L	-0.1607	ppb	18:34:45
3	Be 313.107†	-6471.4	221.8	0.0981	µg/L	0.0981	ppb	18:34:25
3	Cd 226.502†	-92.7	-4.2	-0.0682	µg/L	-0.0682	ppb	18:34:45
3	Co 228.616†	-101.1	2.9	0.0906	µg/L	0.0906	ppb	18:34:45
3	Cr 267.716†	112.1	-7.5	-0.1341	µg/L	-0.1341	ppb	18:34:45
3	Cu 324.752†	3805.4	-160.2	-1.1338	µg/L	-1.1338	ppb	18:34:25
3	Mn 257.610†	187.2	-8.0	-0.0259	µg/L	-0.0259	ppb	18:34:45
3	Mo 202.031†	-8.5	0.8	0.0931	µg/L	0.0931	ppb	18:34:45
3	Ni 231.604†	-50.0	-13.0	-0.4007	µg/L	-0.4007	ppb	18:34:45
3	P 214.914†	-57.6	9.7	9.9119	µg/L	9.9119	ppb	18:34:45
3	Pb 220.353†	88.3	-18.8	-4.2566	µg/L	-4.2566	ppb	18:34:45
3	S 181.975 Axial†	26.3	2.0	6.9016	µg/L	6.9016	ppb	18:34:45
3	Sb 206.836†	5.6	-0.8	-0.5225	µg/L	-0.5225	ppb	18:34:45
3	Se 196.026†	14.7	-1.9	-2.70	µg/L	-2.70	ppb	18:34:45
3	SiO2†	1811.5	-53.9	-10.176	µg/L	-10.176	ppb	18:34:45
3	Si 251.611†	348.4	-1.0	-0.0329	µg/L	-0.0329	ppb	18:34:45
3	Sn 189.927†	0.3	-3.6	-1.4573	µg/L	-1.4573	ppb	18:34:45
3	Ti 334.940†	1331.2	-169.7	-0.3210	µg/L	-0.3210	ppb	18:34:25
3	Tl 190.801†	-17.5	-1.9	-2.6522	µg/L	-2.6522	ppb	18:34:45
3	U 367.007†	275.4	-40.7	-12.701	µg/L	-12.701	ppb	18:34:25
3	V 292.402†	329.4	-11.3	-0.0896	µg/L	-0.0896	ppb	18:34:25
3	Zn 213.857†	517.1	0.1	0.0049	µg/L	0.0049	ppb	18:34:45

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1192789.4	99.675	%	1.3402				1.34%
Sc RADIAL	20833.7	97.0	%	0.57				0.59%
Y 371.029	705537.8	99.854	%	1.3618				1.36%
Ag 328.068†	20.8	0.1549	µg/L	0.57825	0.1549	ppb	0.57825	373.27%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	5.5	9.8300	µg/L	8.30072	9.8300	ppb	8.30072	84.44%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.4	0.8388	µg/L	2.81085	0.8388	ppb	2.81085	335.09%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	45.9	0.6312	µg/L	0.35120	0.6312	ppb	0.35120	55.64%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-11.9	-0.1730	µg/L	0.04892	-0.1730	ppb	0.04892	28.27%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	339.2	0.1500	µg/L	0.04602	0.1500	ppb	0.04602	30.69%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	11.2	7.6194	µg/L	4.36775	7.6194	ppb	4.36775	57.32%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	8.3	0.1353	µg/L	0.17630	0.1353	ppb	0.17630	130.33%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	3.8	0.1163	µg/L	0.07436	0.1163	ppb	0.07436	63.94%

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   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               -1.2     -0.0173 µg/L       0.10209     -0.0173 ppb        0.10209 588.90%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             -195.7     -1.3820 µg/L       0.25910     -1.3820 ppb        0.25910  18.75%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†        -2.8     -9.3862 µg/L       4.26550     -9.3862 ppb        4.26550  45.44%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†        -41.6     -54.396 µg/L       10.9507     -54.396 ppb        10.9507  20.13%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†           -1.7     -12.261 µg/L       52.3084     -12.261 ppb        52.3084 426.63%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†               -9.3     -0.0280 µg/L       0.00814     -0.0280 ppb        0.00814  29.04%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               -0.5     -0.0596 µg/L       0.49843     -0.0596 ppb        0.49843 836.14%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        22.5      21.645 µg/L        5.3124      21.645 ppb         5.3124  24.54%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†               -5.4     -0.1660 µg/L       0.20685     -0.1660 ppb        0.20685 124.63%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                10.7      10.967 µg/L        4.8730      10.967 ppb         4.8730  44.43%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -15.5     -3.5193 µg/L       0.68832     -3.5193 ppb        0.68832  19.56%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           1.1      3.9109 µg/L       2.61799      3.9109 ppb        2.61799  66.94%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                0.2      0.1525 µg/L       0.98362      0.1525 ppb        0.98362 645.10%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†               -4.3       -6.10 µg/L         3.667       -6.10 ppb          3.667  60.15%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2†                    -82.6     -15.583 µg/L        6.1089     -15.583 ppb         6.1089  39.20%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†               14.6      0.4382 µg/L       0.47654      0.4382 ppb        0.47654 108.75%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†               -3.4     -1.3619 µg/L       0.38812     -1.3619 ppb        0.38812  28.50%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†               18.7      0.2198 µg/L       0.15831      0.2198 ppb        0.15831  72.01%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†             -131.8     -0.2498 µg/L       0.06305     -0.2498 ppb        0.06305  25.24%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†               -0.7     -0.9615 µg/L       1.55485     -0.9615 ppb        1.55485 161.70%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 367.007†               -27.8     -8.6609 µg/L       7.26608     -8.6609 ppb        7.26608  83.89%
   QC value within limits for U 367.007  Recovery = Not calculated
V 292.402†                -8.0     -0.0657 µg/L       0.02095     -0.0657 ppb        0.02095  31.91%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                2.7      0.0393 µg/L       0.10393      0.0393 ppb        0.10393 264.75%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Miscellaneous

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID: **1339672**
Analyst: Monifa Basdeo
Method: SW846 3005A
Lab SOP: GL-MA-E-006 REV# 9
Instrument: Metals Manual Instrument

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202969090	Metals Spike Mix I	UI1977019-01	.25	mL
LCS	1202969090	Metals Spike Mix II	UI1977022-06	.25	mL
MS	1202969092	Metals Spike Mix I	UI1977019-01	.25	mL
MS	1202969092	Metals Spike Mix II	UI1977022-06	.25	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202969089 MB	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
1202969090 LCS	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304001	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
1202969091 DUP (335304001)	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
1202969092 MS (335304001)	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
1202969093 SDILT (335304001)	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304002	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304003	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304004	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304005	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304006	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304007	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304008	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304009	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304010	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2

Reagent/Solvent Lot ID	Description	Amount
1961850	Concentrated Nitric Acid	1 mL
1972016	HYDROCHLORIC ACID	2.5 mL

Comments:

Block Temperature: 92 C
Thermometer ID: 119015
Hot Block ID: 13

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID: **1339674**
Analyst: Monifa Basdeo
Method: SW846 3005A
Lab SOP: GL-MA-E-006 REV# 9
Instrument: Metals Manual Instrument

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202969095	Metals Spike Mix I	UI1977019-01	.25	mL
LCS	1202969095	Metals Spike Mix II	UI1977022-06	.25	mL
MS	1202969097	Metals Spike Mix I	UI1977019-01	.25	mL
MS	1202969097	Metals Spike Mix II	UI1977022-06	.25	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202969094 MB	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
1202969095 LCS	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304011	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
1202969096 DUP (335304011)	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
1202969097 MS (335304011)	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
1202969098 SDILT (335304011)	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304012	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304013	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304014	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304015	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304016	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304017	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304018	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304019	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304020	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304021	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304022	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304023	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2
335304024	04-NOV-2013 08:30:24	Ground Water	50	50	1	<2

Reagent/Solvent Lot ID	Description	Amount
1961850	Concentrated Nitric Acid	1 mL
1972016	HYDROCHLORIC ACID	2.5 mL

Comments:

Block Temperature: 92 C
Thermometer ID: 118680
Hot Block ID: 14

DER Report No.: 1239891
Revision No.:

DATA EXCEPTION REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
07-NOV-13	Industrial	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
ICP	SW846 3005/6010B	Liquid	MDNR
Batch ID:	**Sample Numbers:**		
1339675	See Below		

Potentially affected work order(s)(SDG): 335304

Application Issues:

Failed RPD for DUP

Specification and Requirements Exception Description:	DER Disposition:
1. Failed RPD for DUP: QC 1202969096DUP	1. The sample and sample duplicate % RPD failed outside the control limits for nickel due to possible sample non-homogeneity and/or matrix interference. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported. Sample #335304011 had white particles that settles down in the bottom of container.

Originator's Name:

Helen Camello 07-NOV-13

Data Validator/Group Leader:

Jerry Wigfall 08-NOV-13

Standard Logbook

Serial ID:	UI130312-40	**Open/Reference Date:**	20-MAR-13	**Amount :**	500 mL
Name:	TRACE ICP ICSA SOLN A	**Received:**	12-MAR-13	**Catalog Number :**	G34-160005-01-03
Type:	Source Material	**Expires:**	20-MAR-14	**Lot Number :**	1043784
Employee:	Helen Camello			**Solvent :**	5%HNO3
Supplier:	o2si				

Description: TRACE ICP ICSA SOLN A mg/L+/-0.5%IN5%HNO3

Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Serial ID:	UI130314-40	**Open/Reference Date:**	25-MAR-13	**Amount :**	500 mL
Name:	SECOND SOURCE STD -1	**Received:**	14-MAR-13	**Catalog Number :**	G34-160358-01-03
Type:	Source Material	**Expires:**	25-MAR-14	**Lot Number :**	1043799
Employee:	Helen Camello			**Solvent :**	5%HNO3
Supplier:	02si				

Description: SECOND SOURCE STD #1A 5%HNO3

Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID:	UI130314-41	**Open/Reference Date:**	25-MAR-13	**Amount :**	500 mL
Name:	SECOND SOURCE STD -1	**Received:**	14-MAR-13	**Catalog Number :**	G34-160358-01-03
Type:	Source Material	**Expires:**	25-MAR-14	**Lot Number :**	1043799
Employee:	Helen Camello			**Solvent :**	5%HNO3,TR.HF
Supplier:	02si				

Description: SECOND SOURCE STD #1B

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Standard Logbook

Serial ID:	UI130528-42	**Open/Reference Date:**	24-JUN-13	**Amount :**	500 mL
Name:	TRACE ICP Stock PQL Sta	**Received:**	24-MAY-13	**Catalog Number :**	G34-160543-02-03
Type:	Source Material	**Expires:**	01-JUN-14	**Lot Number :**	1046320
Employee:	Helen Camello			**Solvent :**	+/-0.5%in2%HNO3+TrHF
Supplier:	02si				
Description:	TRACE ICP Stock PQL Standard				
Comments:	None				

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID:	UI130624-40	**Open/Reference Date:**	15-JUL-13	**Amount :**	250 mL
Name:	SILICON	**Received:**	24-JUN-13	**Catalog Number :**	HP100050-4F
Type:	Source Material	**Expires:**	15-JUL-14	**Lot Number :**	1227035
Employee:	Helen Camello			**Solvent :**	H20/tr HF
Supplier:	ENVIRONMENTAL EXPRESS				
Description:	SILICON 1000mg/L H20/tr HF				
Comments:	None				

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID:	UI130813-41	**Open/Reference Date:**	21-AUG-13	**Amount :**	500 mL
Name:	TRACE ICP Na-1000SOUR	**Received:**	12-AUG-13	**Catalog Number :**	G34-060011-02-03
Type:	Source Material	**Expires:**	21-AUG-14	**Lot Number :**	1049781
Employee:	Helen Camello			**Solvent :**	1%HNO3
Supplier:	02SI				
Description:	Sodium 1000 +/- 3 ug/mL in 1% HNO3				
Comments:	None				

Analyte	Concentration	Analyte	Concentration

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI130906-42 **Open/Reference Date:** 23-OCT-13 **Amount :** 500 mL
Name: SILICON 1000mg/L **Received:** 04-SEP-13 **Catalog Number :** G34-060014-02-03
Type: Source Material **Expires:** 23-OCT-14 **Lot Number :** 1050472
Employee: Helen Camello **Solvent :** in H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI130919-40 **Open/Reference Date:** 23-OCT-13 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUR **Received:** 19-SEP-13 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 18-SEP-14 **Lot Number :** 1325936
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Uranium-235	1.44 mg/L	Uranium-238	198.56 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI130919-41 **Open/Reference Date:** 23-OCT-13 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUR **Received:** 19-SEP-13 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 18-SEP-14 **Lot Number :** 1325935
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI131016-48.1 **Open/Reference Date:** 25-OCT-13 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 17-OCT-13 **Catalog Number :** GA34-160005-02
Type: Source Material **Expires:** 25-OCT-14 **Lot Number :** 1052238
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI131016-49.13 **Open/Reference Date:** 05-NOV-13 **Amount :** 100 ml
Name: Trace ICP ICSAB **Received:** 17-OCT-13 **Catalog Number :** GA34-160066-04
Type: Source Material **Expires:** 06-NOV-13 **Lot Number :** 1052239
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Inteferent Check Standard AB
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L
Potassium	5000 ug/L	Selenium	2500 ug/L
Silica	10696.5 ug/L	Silicon	5000 ug/L
Silver	250 ug/L	Sodium	5000 ug/L
Strontium	500 ug/L	Sulfur	2500 ug/L
Thallium	500 ug/L	Tin	500 ug/L
Titanium	500 ug/L	Uranium	500 ug/L
Vanadium	500 ug/L	Zinc	500 ug/L

Standard Logbook

Serial ID:	UI131016-49.14	**Open/Reference Date:**	06-NOV-13	**Amount :**	100 ml
Name:	Trace ICP ICSAB	**Received:**	17-OCT-13	**Catalog Number :**	GA34-160066-04
Type:	Source Material	**Expires:**	07-NOV-13	**Lot Number :**	1052239
Employee:	Helen Camello			**Solvent :**	3% HCl + 1% HNO3
Supplier:	o2si				

Description: Trace ICP Inteferent Check Standard AB

Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L
Potassium	5000 ug/L	Selenium	2500 ug/L
Silica	10696.5 ug/L	Silicon	5000 ug/L
Silver	250 ug/L	Sodium	5000 ug/L
Strontium	500 ug/L	Sulfur	2500 ug/L
Thallium	500 ug/L	Tin	500 ug/L
Titanium	500 ug/L	Uranium	500 ug/L
Vanadium	500 ug/L	Zinc	500 ug/L

Serial ID:	UI131016-49.15	**Open/Reference Date:**	07-NOV-13	**Amount :**	100 ml
Name:	Trace ICP ICSAB	**Received:**	17-OCT-13	**Catalog Number :**	GA34-160066-04
Type:	Source Material	**Expires:**	08-NOV-13	**Lot Number :**	1052239
Employee:	Helen Camello			**Solvent :**	3% HCl + 1% HNO3
Supplier:	o2si				

Description: Trace ICP Inteferent Check Standard AB

Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L
Potassium	5000 ug/L	Selenium	2500 ug/L
Silica	10696.5 ug/L	Silicon	5000 ug/L
Silver	250 ug/L	Sodium	5000 ug/L

Analyte	Concentration	Analyte	Concentration
Strontium	500 ug/L	Sulfur	2500 ug/L
Thallium	500 ug/L	Tin	500 ug/L
Titanium	500 ug/L	Uranium	500 ug/L
Vanadium	500 ug/L	Zinc	500 ug/L

Serial ID: UI131025-40 **Open/Reference Date:** 25-OCT-13 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 24-OCT-13 **Catalog Number :** G34-160211-05-03
Type: Source Material **Expires:** 25-OCT-14 **Lot Number :** 1052548
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Thallium	10000 ug/L	Tin	10000 ug/L
Titanium	10000 ug/L	Vanadium	10000 ug/L
Zinc	15000 ug/L		

Serial ID: UI131025-41 **Open/Reference Date:** 25-OCT-13 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 24-OCT-13 **Catalog Number :** G34-160211-05-03
Type: Source Material **Expires:** 25-OCT-14 **Lot Number :** 1052548
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Sulfur	50000 ug/L
Uranium	15000 ug/L		

Standard Logbook

Serial ID:	UI1977019-01	**Open/Reference Date:**	21-OCT-13	**Catalog Number :**	G34-160047-01
Name:	METALSPIKE-1	**Received:**	21-OCT-13	**Lot Number :**	1051773
Type:	Source Material	**Expires:**	21-OCT-14		
Employee:	Anthony Green				
Supplier:	OS2I				
Description:	Metals Spike Mix I				
Comments:	None				

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID:	UI1977022-06	**Open/Reference Date:**	21-OCT-13	**Catalog Number :**	G34-160048-014
Name:	METALSPIKE-2	**Received:**	21-OCT-13	**Lot Number :**	1051771
Type:	Source Material	**Expires:**	21-OCT-14		
Employee:	Anthony Green				
Supplier:	OS2I				
Description:	Metals Spike Mix II				
Comments:	None				

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID:	WI131105-42	**Open/Reference Date:**	05-NOV-13	**Balance Id :**	216
Name:	TRACE ICP 0.1 PPM STD.	**Received:**	19-SEP-13	**Pipet Id :**	3581809
Type:	Working	**Expires:**	06-NOV-13	**Solvent :**	3%HCL and 1%HNO3-1981808
Employee:	Helen Camello				
Supplier:	GEL				
Description:	TRACE ICP 0.1 PPM CALIBRATION STD.				
Comments:	None				

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI131105-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131105-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131105-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131105-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131105-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI131105-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131105-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI131105-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI131105-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131105-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI131105-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131105-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI131105-43 **Open/Reference Date:** 05-NOV-13 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 19-SEP-13 **Pipet Id :** 3581809
Type: Working **Expires:** 06-NOV-13 **Solvent :** 3%HCL and 1%HNO3-1981808
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP O.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130813-41	Sodium	1000 ug/mL	2.5 mL	1000 mL	5000 UG/L
UI130906-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI130906-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130919-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI130919-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI130919-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI131105-44 **Open/Reference Date:** 05-NOV-13 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 19-SEP-13 **Pipet Id :** 3581809
Type: Working **Expires:** 06-NOV-13 **Solvent :** 3%HCL and 1 %HNO3-1981808
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130906-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI130906-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130919-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130919-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130919-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI130919-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: WI131105-45 **Open/Reference Date:** 05-NOV-13 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 12-MAR-13 **Pipet Id :** 3581809
Type: Working **Expires:** 06-NOV-13 **Solvent :** 3%HCL and 1%HNO3-1981808
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130312-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI130312-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI130312-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI130312-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI130813-41	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L

Standard Logbook

Serial ID:	WI131105-46	**Open/Reference Date:**	05-NOV-13	**Balance Id :**	216
Name:	ICP TRACE ICV	**Received:**	14-MAR-13	**Pipet Id :**	3581809
Type:	Working	**Expires:**	06-NOV-13	**Solvent :**	3%HCL AND 1%HNO3-1981808
Employee:	Helen Camello				
Supplier:	GEL				

Description: Initial Calibration Verification ICP Trace Metals

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130314-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI130314-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI130314-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130624-40	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI130624-40	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Standard Logbook

Serial ID:	WI131105-47	**Open/Reference Date:**	05-NOV-13	**Balance Id :**	216
Name:	PQL Working Standard	**Received:**	28-MAY-13	**Pipet Id :**	3581809
Type:	Working	**Expires:**	06-NOV-13	**Solvent :**	3%HCL &1%HNO3-1981808
Employee:	Helen Camello				
Supplier:	02si				
Description:	PQL Working Standard				
Comments:	None				

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130528-42	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI130528-42	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI130528-42	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI130528-42	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI130528-42	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI130528-42	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI130528-42	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI130528-42	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI130528-42	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI130528-42	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI130528-42	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID:	WI131106-42	**Open/Reference Date:**	06-NOV-13	**Balance Id :**	216
Name:	TRACE ICP 0.1 PPM STD.	**Received:**	19-SEP-13	**Pipet Id :**	3581809
Type:	Working	**Expires:**	07-NOV-13	**Solvent :**	3%HCL and 1%HNO3-1981808
Employee:	Helen Camello				
Supplier:	GEL				

Standard Logbook

Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI131106-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131106-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131106-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131106-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131106-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI131106-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131106-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI131106-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI131106-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131106-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI131106-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131106-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI131106-43 **Open/Reference Date:** 06-NOV-13 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 19-SEP-13 **Pipet Id :** 3581809
Type: Working **Expires:** 07-NOV-13 **Solvent :** 3%HCL and 1%HNO3-1981808
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP O.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130813-41	Sodium	1000 ug/mL	2.5 mL	1000 mL	5000 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130906-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI130906-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI130919-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI130919-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI130919-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI131106-44 **Open/Reference Date:** 06-NOV-13 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 19-SEP-13 **Pipet Id :** 3581809
Type: Working **Expires:** 07-NOV-13 **Solvent :** 3%HCL and 1 %HNO3-1981808
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130906-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI130906-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130919-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130919-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130919-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI130919-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: WI131106-45 **Open/Reference Date:** 06-NOV-13 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 12-MAR-13 **Pipet Id :** 3581809
Type: Working **Expires:** 07-NOV-13 **Solvent :** 3%HCL and 1%HNO3-1981808
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130312-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI130312-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI130312-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI130312-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI130813-41	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L

Standard Logbook

Serial ID:	WI131106-46	**Open/Reference Date:**	06-NOV-13	**Balance Id :**	216
Name:	ICP TRACE ICV	**Received:**	14-MAR-13	**Pipet Id :**	3581809
Type:	Working	**Expires:**	07-NOV-13	**Solvent :**	3%HCL AND 1%HNO3-1981808
Employee:	Helen Camello				
Supplier:	GEL				

Description: Initial Calibration Verification ICP Trace Metals

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130314-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI130314-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI130314-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130624-40	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI130624-40	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Standard Logbook

Serial ID:	WI131106-47	**Open/Reference Date:**	06-NOV-13	**Balance Id :**	216
Name:	PQL Working Standard	**Received:**	28-MAY-13	**Pipet Id :**	3581809
Type:	Working	**Expires:**	07-NOV-13	**Solvent :**	3%HCL &1%HNO3-1981808
Employee:	Helen Camello				
Supplier:	02si				
Description:	PQL Working Standard				
Comments:	None				

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130528-42	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI130528-42	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI130528-42	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI130528-42	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI130528-42	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI130528-42	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI130528-42	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI130528-42	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI130528-42	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI130528-42	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI130528-42	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID:	WI131107-42	**Open/Reference Date:**	07-NOV-13	**Balance Id :**	216
Name:	TRACE ICP 0.1 PPM STD.	**Received:**	19-SEP-13	**Pipet Id :**	3581809
Type:	Working	**Expires:**	08-NOV-13	**Solvent :**	3%HCL and 1%HNO3-1981808
Employee:	Helen Camello				
Supplier:	GEL				

Standard Logbook

Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI131107-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131107-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131107-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131107-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131107-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI131107-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131107-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI131107-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI131107-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI131107-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI131107-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI131107-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI131107-43 **Open/Reference Date:** 07-NOV-13 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 19-SEP-13 **Pipet Id :** 3581809
Type: Working **Expires:** 08-NOV-13 **Solvent :** 3%HCL and 1%HNO3-1981808
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP O.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130813-41	Sodium	1000 ug/mL	2.5 mL	1000 mL	5000 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130906-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI130906-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI130919-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI130919-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI130919-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI130919-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI130919-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI131107-44 **Open/Reference Date:** 07-NOV-13 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 19-SEP-13 **Pipet Id :** 3581809
Type: Working **Expires:** 08-NOV-13 **Solvent :** 3%HCL and 1 %HNO3-1981808
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130906-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI130906-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130919-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130919-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130919-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI130919-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI130919-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI130919-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: WI131107-45 **Open/Reference Date:** 07-NOV-13 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 12-MAR-13 **Pipet Id :** 3581809
Type: Working **Expires:** 08-NOV-13 **Solvent :** 3%HCL and 1%HNO3-1981808
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130312-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI130312-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI130312-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI130312-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI130813-41	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L

Standard Logbook

Serial ID:	WI131107-46	**Open/Reference Date:**	07-NOV-13	**Balance Id :**	216
Name:	ICP TRACE ICV	**Received:**	14-MAR-13	**Pipet Id :**	3581809
Type:	Working	**Expires:**	08-NOV-13	**Solvent :**	3%HCL AND 1%HNO3-1981808
Employee:	Helen Camello				
Supplier:	GEL				

Description: Initial Calibration Verification ICP Trace Metals

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130314-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI130314-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI130314-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI130314-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI130314-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130314-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI130624-40	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI130624-40	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Standard Logbook

Serial ID:	WI131107-47	**Open/Reference Date:**	07-NOV-13	**Balance Id :**	216
Name:	PQL Working Standard	**Received:**	28-MAY-13	**Pipet Id :**	3581809
Type:	Working	**Expires:**	08-NOV-13	**Solvent :**	3%HCL &1%HNO3-1981808
Employee:	Helen Camello				
Supplier:	02si				
Description:	PQL Working Standard				
Comments:	None				

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI130528-42	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI130528-42	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI130528-42	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI130528-42	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI130528-42	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI130528-42	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI130528-42	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI130528-42	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI130528-42	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI130528-42	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI130528-42	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI130528-42	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI130528-42	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI130528-42	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID:	1961850	**Open/Reference Date:**	09-SEP-13	**Lot Number :**	0000008473
Name:	I-HNO3	**Received:**	09-SEP-13		
Type:	Reagent/Solvent	**Expires:**	09-SEP-14		
Employee:	Anthony Green				
Supplier:	Macron Chemicals				

Standard Logbook

Description: Concentrated Nitric Acid
Comments: None

Serial ID:	1972016	**Open/Reference Date:**	08-OCT-13	**Lot Number :**	0000009375
Name:	I-HCL	**Received:**	08-OCT-13	**Preservative_Id :**	5 none
Type:	Reagent/Solvent	**Expires:**	08-OCT-14		
Employee:	Anthony Green				
Supplier:	Macron Chemicals				
Description:	HYDROCHLORIC ACID				
Comments:	None				

Serial ID:	1981808	**Open/Reference Date:**	04-NOV-13	**Solvent :**	3%HCL+1%HNO3
Name:	B-ICP-RINSE SOLN	**Received:**	08-OCT-13		
Type:	Reagent/Solvent	**Expires:**	10-NOV-13		
Employee:	Helen Camello				
Supplier:	GEL				
Description:	3%HCL+1%HNO3 RINSE SOLN.				
Comments:	None				

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1961850	I-HNO3	68.0-70.0%	80 mL	10000 mL	N/A
1972016	I-HCL	36.5-38.0	240 mL	10000 mL	N/A